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Surface Water Supply of the United States, 1966-70

Part 11. Pacific Slope Basins in California

Volume 4. Northern Central Valley Basins

GEOLOGICAL SURVEY WATER-SUPPLY PAPER 2131

Prepared in cooperation with the States
of California and Oregon and with
other agencies

U.S. DEPARTMENT OF THE INTERIOR
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PREFACE

This report was prepared by the U.S. Geological Survey in cooperation with the States of California and Oregon and with other agencies, by personnel of the Water Resources Division, J. S. Cragwall, Jr., chief hydrologist, G. W. Whetstone, assistant chief for Scientific Publications and Data Management, under the general direction of G. A. Billingsley, chief, Reports Section, and C. B. Ham, chief, Data Reports Unit.

The data were collected and computed under the supervision of district chiefs, Water Resources Division, as follows:

S. F. Kapustka	Portland, Oreg.
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PACIFIC SLOPE BASINS IN CALIFORNIA, NORTHERN CENTRAL VALLEY BASINS

SCOPE OF WORK

This report is one of a series of 37 reports presenting records of stage and discharge of streams, and of stage and contents of lakes and reservoirs in the United States during the 1966-70 water years; it contains the records for gaging stations and partial-record stations in the Pacific slope basins in California, Northern Central Valley.

Since 1888, when the U.S. Geological Survey first studied streamflow in relation to problems of irrigation, similar records have been obtained at more than 19,500 gaging stations in the 50 States. On September 30, 1970, the Geological Survey and cooperating organizations were maintaining 10,000 gaging stations. Partial-record stations for low flow or for floodflow have been operated at many other points.

COOPERATION

Many State, municipal, and private organizations have cooperated with the Geological Survey in this work by either furnishing or helping to collect data. Organizations that assisted in the collection of data through cooperative agreements with the Survey are as follows:

> California--California Department of Water Resources; Georgetown Divide Public Utility District; Lake County Flood Control and Water Conservation District; Paradise Irrigation District; and Sacramento County Department of Public Works, Water Resources Division.
>
> Oregon--State Engineer and the State Highway Commission.

Assistance in the form of funds and services in collecting records published herein was given by the Corps of Engineers, U.S. Army; by the Bureau of Reclamation, U.S. Department of the Interior; and by the Forest Service, U.S. Department of Agriculture.

The following organizations aided in collecting records:

> California--Pacific Gas and Electric Co.; Placer County Water Agency; Sacremento Municipal Utility District; Yuba County Water Agency; Nevada Irrigation District; and Oroville-Wyandotte Irrigation District.

Organizations that supplied data are acknowledged in the station descriptions.

DIVISION OF WORK

The stream-gaging work was done by the Water Resources Division of the Geological Survey under the direction of personnel cited in the preface. The data for stations in several States were collected and prepared for publication in the district offices listed below.

State	District office	Address
California	Menlo Park 94025	855 Oak Grove Avenue
Oregon [a]	Portland 97208	830 N.E. Holladay St.

[a] The work in Oregon was done in collaboration with the State Engineer.

DEFINITION OF TERMS AND ABBREVIATIONS

Terms related to streamflow and other hydrologic data, as used in this report, are defined as follows:

ACRE-FOOT (AC-FT, ACRE-FT) is the quantity of water required to cover an acre to the depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons.

CFS-DAY is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, or about 646,000 gallons, and represents a runoff of approximately 0.0372 inch from 1 square mile.

CONTENTS is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

CONTROL designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

CUBIC FEET PER SECOND PER SQUARE MILE (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

CUBIC FOOT PER SECOND (CFS) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute.

DISCHARGE is the volume of water in a stream which passes a given point in a unit of time.

DRAINAGE AREA of a stream above a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing area, within the area unless otherwise noted.

GAGE HEIGHT is the surface-water elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

GAGING STATION is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied herein only to those gaging stations where a continuous record of discharge is computed.

HYDROLOGIC BENCH-MARK STATION is one that provides hydrologic data for a basin in which the hydrologic regimes will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

INTERNATIONAL HYDROLOGICAL DECADE (IHD) RIVER STATIONS provide a general index of runoff and materials in the water balance (discharge of water, and dissolved and transported solids) of the world. In the United States, IHD Stations provide indices of runoff and of the general distribution of water in the principal river basins of the conterminous United States and Alaska.

PARTIAL-RECORD STATION is a particular site where limited streamflow data are collected systematically over a period of years for use in hydrologic analyses.

RUNOFF IN INCHES (IN.) is the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

STAGE-DISCHARGE RELATION is the relation between gage height and the volume of water per unit of time flowing in a channel.

WSP is used as an abbreviation for "Water-Supply Paper" in reference to previously published reports.

DOWNSTREAM ORDER AND STATION NUMBER

Beginning with the series of reports for the water year ending September 30, 1951, the order of listing gaging-station records is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a gaging station is situated with respect to the stream to which it is immediately tributary is indicated by an indention in a list of gaging stations. Each indention represents one rank. This downstream order and system of indention show which gaging stations are on tributaries between any two stations and the rank of the tributary on which each gaging station is situated.

The order of listing used before the publication of the 1951 report listed first all stations on the main stem from headwaters toward mouth, then all stations on the uppermost tributary to the main stem from the tributary's source to mouth, and then all stations from source to mouth of the uppermost tributary to the tributary.

As an added means of identification, each gaging station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and gaging stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station such as 11409500, which appears just to the left of the station name, includes the 2-digit part number "11" plus the 6-digit downstream order number "409500". The part numbers refer to the areas whose boundaries are outlined in Figure 1.

EXPLANATION OF DATA

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at 15-, 30-, or 60-minute intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6. Surface areas of lakes or reservoirs are determined from instrument surveys using standard methods. The configuration of the reservoir bottom is determined by sounding at many points.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some gaging stations the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some stream gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of gage-height record and occasional winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, adjoining good record, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents or a table showing the daily contents is given. Tables of daily mean gage heights are included for some streamflow stations and for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30.

The description of the gaging stations gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, general remarks, and notations of revisions of previously published records. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD." The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey unless otherwise qualified. The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. In addition, the median of yearly mean discharges is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than 10 percent. Under "EXTREMES" are given, usually in tabular form, the maximum instantaneous discharge (or contents) and gage height for the current water years (1966-70); the minimum instantaneous discharge if there is little or no regulation (or minimum contents); the minimum daily discharge if there is extensive regulation (also the minimum instantaneous discharge if it is abnormally low); and the minimum gage height if it is also abnormally low. For stations for which peak discharges are published, all independent peaks above the selected base and the time of occurrence and corresponding gage heights are published in the first table under "EXTREMES." The base discharge, which is given in parentheses in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate table following the table of peaks. In the paragraph following the current data, the data given are for the periods listed in the "PERIOD OF RECORD" paragraph. Reliable information concerning major floods that have occurred outside the period of record is given in the last paragraph under "EXTREMES." Unless otherwise qualified, the maximum discharge (or contents) corresponds to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a non-recording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge (or contents), it is given separately. Information pertaining to the accuracy of the discharge records, to conditions which affect the natural flow at the gaging station, and to availability of Water-Quality records, is given under "REMARKS." For reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is given under "REMARKS."

Previously published records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISIONS (WATER YEARS)" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge are affected by the revision, the fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches.

In the yearly summary below the monthly summary, the figures following "MAX" are the maximum daily discharges for the calendar and water years; likewise, those following "MIN" are the minimum daily discharges.

Footnotes to the table of daily discharge are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

Data collected at partial-record stations are given at the end of this report. Data for partial-record stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. Occasionally, a series of discharge measurements are made within a short time period to investigate the seepage gains or losses along a reach of a stream or to determine the low-flow characteristics of an area. Such measurements are given in special tables following the tables of partial-record stations.

ACCURACY OF FIELD DATA AND COMPUTED RESULTS

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretations of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent; "good", within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

PUBLICATIONS

Through September 30, 1960, the records of discharge and stage of streams and contents and stage of lakes and reservoirs were published in an annual series of U.S. Geological Survey water-supply papers entitled "Surface Water Supply of the United States." Prior to 1951, there were 14 volumes in the series; one for each of the 14 parts whose boundaries coincided with certain natural drainage lines within the conterminous United States. From 1951 to 1960, there were 20 volumes in the series, including one each for the States of Alaska (Part 15) and Hawaii (Part 16).

This report is one of the second series of water-supply papers to be published on a 5-year basis. The first series covered the 5-year period October 1, 1960, to September 30, 1965. This series covers the period October 1, 1965, to September 30, 1970. To meet interim requirements, streamflow and related data have been released by the Geological Survey in annual reports, beginning with the 1961 water year, by State. These reports are entitled, "Water Resources Data for (state), Part 1. Surface Water Records." Distribution of these reports is limited and primarily for local needs. Any revision or corrections found necessary to the records published in these annual State reports have been made and published herein without reference.

These two series of 5-year water supply papers consist of 37 volumes each. The boundaries of the various parts and volumes within the parts are indicated in the following list and on the map in Figure 1.

Part 1. North Atlantic slope basins, in three volumes:
  Vol. 1: Basins from Maine to Connecticut
  Vol. 2: Basins from New York to Delaware
  Vol. 3: Basins from Maryland to York River
Part 2. South Atlantic slope and eastern Gulf of Mexico basins, in three volumes:
  Vol. 1: Basins from James River to Savannah River
  Vol. 2: Basins from Ogeechee River to Carrabelle River
  Vol. 3: Basins from Apalachicola River to Pearl River
Part 3. Ohio River basin, in four volumes:
  Vol. 1: Ohio River basin above Kanawha River
  Vol. 2: Ohio River basin from Kanawha River to Louisville, Kentucky
  Vol. 3: Ohio River basin from Louisville, Kentucky, to Wabash River
  Vol. 4: Ohio River basin below Wabash River

Part 4. St. Lawrence River basin, in two volumes:
  Vol. 1: Basins of streams tributary to Lakes Superior, Michigan, and Huron
  Vol. 2: St. Lawrence River basin below Lake Huron
Part 5. Hudson Bay and Upper Mississippi River basins, in three volumes:
  Vol. 1: Hudson Bay basin
  Vol. 2: Upper Mississippi River basin above Keokuk, Iowa
  Vol. 3: Upper Mississippi River basin below Keokuk, Iowa
Part 6. Missouri River basin, in four volumes:
  Vol. 1: Missouri River basin above Williston, North Dakota
  Vol. 2: Missouri River basin from Williston, North Dakota, to Sioux City, Iowa
  Vol. 3: Missouri River basin from Sioux City, Iowa, to Nebraska City, Nebraska
  Vol. 4: Missouri River basin below Nebraska City, Nebraska
Part 7. Lower Mississippi River basin, in two volumes:
  Vol. 1: Lower Mississippi River basin except Arkansas River basin
  Vol. 2: Arkansas River basin
Part 8. Western Gulf of Mexico basins, in two volumes:
  Vol. 1: Basins from Mermentau River to Colorado River
  Vol. 2: Basins from Lavaca River to Rio Grande
Part 9. Colorado River basin in three volumes:
  Vol. 1: Colorado River basin above Green River
  Vol. 2: Colorado River basin from Green River to Compact Point
  Vol. 3: Lower Colorado River basin
Part 10. The Great Basin
Part 11. Pacific slope basins in California, in four volumes:
  Vol. 1: Basins from Tijuana River to Santa Maria River
  Vol. 2: Basins from Arroyo Grande to Oregon State line except Central Valley
  Vol. 3: Southern Central Valley basins
  Vol. 4: Northern Central Valley basins
Part 12. Pacific slope basins in Washington, in two volumes:
  Vol. 1: Pacific slope basins in Washington except Columbia River basin
  Vol. 2: Upper Columbia River basin
Part 13. Snake River basin
Part 14. Pacific slope basins in Oregon and Lower Columbia River basin
Part 15. Alaska
Part 16. Hawaii and other Pacific areas

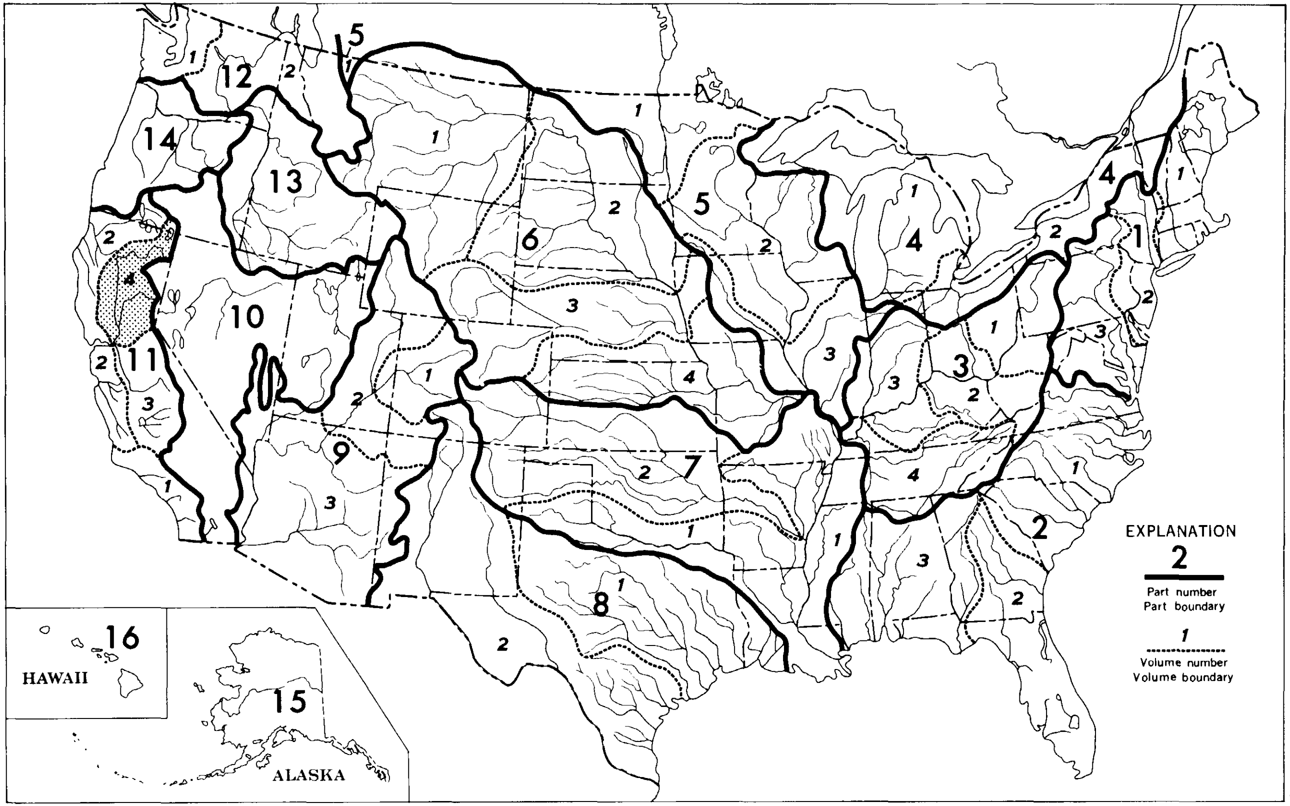
Water-supply papers and other publications of the Geological Survey containing data on the water resources of the United States may be purchased or consulted as follows:

1. Copies may be purchased from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402, who will, on application, furnish lists giving prices. A list of Geological Survey publications may also be obtained by applying to the Director, Geological Survey, National Center, Reston, Va. 22092.

2. Sets of the reports may be consulted in the libraries of the principal cities in the United States.

3. Sets are available for consultation in the offices of the Water Resources Division of the Geological Survey. Addresses of the offices in the area covered by this report are given on page 1.

Early records of the flow of streams in the United States are published in the reports listed below. In many of these reports records for years earlier than those indicated have been included for some streams. Most of these reports are out of print, but may be available for consultation in the district offices and in public libraries.


EXPLANATION
2
Part number
Part boundary
1
Volume number
Volume boundary
1
2
3
4
5
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15
16
HAWAII
ALASKA

Figure 1.--Map of the United States showing area covered by the volumes in the series on surface-water supply. The area covered by this report is shaded.

Streamflow data for the years 1884-1901, in reports of the Geological Survey
(A - Annual Report; B - Bulletin)

Report	Character of data	Year
10th A, pt. 2	Descriptive information only	
11th A, pt. 2	Monthly discharge and descriptive information	1884-90.
12th A, pt. 2	do	1884-91.
13th A, pt. 3	do	1884-92.
14th A, pt. 2	Monthly discharge	1888-93.
B 131	Descriptions, measurements, gage heights, and ratings	1893-94.
16th A, pt. 2	Descriptive information only.	
B 140	Descriptions, measurements, gage heights, ratings and monthly discharge.	1895.
WSP 11	Gage heights	1896.
18th A, pt. 4	Descriptions, measurements, ratings, and monthly discharge	1895-96.
WSP 15	Descriptions, measurements, and gage heights of streams east of the Mississippi River, and Missouri River and tributaries above Kansas River.	1897.
WSP 16	Descriptions, measurements, and gage heights of streams west of the Mississippi River, except Missouri River and tributaries above Kansas River.	1897.
19th A, pt. 4	Descriptions, measurements, ratings and monthly discharge	1897.
WSP 27	Measurements, ratings, and gage heights of streams east of the Mississippi River, and Missouri River and tributaries.	1898.
WSP 28	Measurements, ratings, and gage heights of streams west of the Mississippi River, except Missouri River and tributaries.	1898.
20th A, pt. 4	Monthly discharge	1898.
WSP 35 to 39	Descriptions, measurements, gage heights, and ratings	1899.
21st A, pt. 4	Monthly discharge	1899.
WSP 47 to 52	Descriptions, measurements, gage heights, and ratings	1900.
22nd A, pt. 4	Monthly discharge	1900.
WSP 65, 66.	Descriptions, measurements, gage heights, and ratings	1901.
WSP 75	Monthly discharge	1901.

Reports on surface water supply containing records from 1878 to date for drainage basins in this report are listed below. The data for any particular gaging station will, in general, be found in the reports covering the years during which the station was maintained.

Number of water-supply papers containing results of stream measurements
in Pacific slope basins in California, Northern Central Valley, 1878-1965

Year	WSP	Year	WSP	Year	WSP	Year	WSP	Year	WSP
1878-1911	298	1922	551	1932	736	1942	961	1952	1245
1912	331	1923	571	1933	751	1943	981	1953	1285
1913	361	1924	591	1934	766	1944	1011	1954	1345
1914	391	1925	611	1935	791	1945	1041	1955	1395
1915	411	1926	631	1936	811	1946	1061	1956	1445
1916	441	1927	651	1937	831	1947	1091	1957	1515
1917	461	1928	671	1938	861	1948	1121	1958	1565
1918	481	1929	691	1939	881	1949	1151	1959	1635
1919-20	511	1930	706	1940	901	1950	1181	1960	1715
1921	531	1931	721	1941	931	1951	1215	1961-65	1931

Records for the area covered by this report have been compiled through September 1950 and for the period October 1950 to September 1960 and published in Water-Supply

Papers 1315-A and 1735, respectively. These reports contain a summary of monthly and annual discharges for all previously published records as well as some records not contained in the annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical.

The reports listed in the foregoing tables contain the customary records of discharge collected during the systematic operation of gaging stations. Detailed information on the stage and discharge of many streams during major floods has been included in special reports on these floods published by the Geological Survey. The more recent of these special reports also contain other pertinent hydrologic information and analyses and compilations of data relating to earlier notable floods. The following list gives the numbers and titles of these reports:

WSP	Title
147	Destructive floods in the United States in 1904.
771	Floods in the United States, magnitude and frequency.
843	Floods in December 1937 in northern California.
847	Maximum discharges in stream-measurement stations through September 1938.
1137-F	Flood of November-December 1950 in Central Valley basin, California.
1530	Summary of floods in the United States during 1956.
1650	Floods of December 1955-January 1956 in the far Western States.
1660-B	Summary of floods in the United States during 1958.
1686	Magnitude and frequency of floods in the United States.
1750-B	Summary of floods in the United States during 1959.
1790-B	Summary of floods in the United States during 1960.
1820	Summary of floods in the United States during 1962.
1830-A	Floods of January-February 1963 in California and Nevada.
1866	Floods of December 1964 and January 1965 in the far Western States.
2030	Summary of floods in the United States during 1969.

Reports giving records of chemical quality and temperature of surface water and suspended-sediment loads of streams in the area covered by this volume for the water years 1941-70 are listed below:

Numbers of water-supply papers containing water-quality records in the Pacific slope basins in California, Northern Central Valley, 1941-70

Year	WSP	Year	WSP	Year	WSP	Year	WSP	Year	WSP
1941	942	1947	1102	1953	1293	1959	1645	1965	1965
1942	950	1948	1133	1954	1353	1960	1745	1966	1995
1943	970	1949	1163	1955	1403	1961	1885	1967	2015
1944	1022	1950	1189	1956	1453	1962	1945	1968	2099
1945	1030	1951	1200	1957	1523	1963	1951	1969	2149
1946	1050	1952	1253	1958	1574	1964	1958	1970	2159

OTHER DATA AVAILABLE

Information of a more detailed nature than that published for most of the gaging stations such as discharge measurements, gage-height records, and rating tables is on file in the district offices. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

Water-quality records also are collected at or near some gaging stations. Data are obtained on the chemical quality of the stream water, on water temperature, and on sediment. Under "Remarks" of the station description, reference is made to water-quality records collected on a regular basis for the station. Results of the data collected are published in annual water-supply papers entitled "Quality of Surface Waters of the United States" and in annual reports issued by States beginning with 1964 water year; the state reports are entitled, "Water Resources Data for (state), Part 2. Water Quality Records."

Information on the availability of unpublished data, statistical analyses, or quality of water records, may be obtained from the district offices listed on page 1.

RECORDS OF DISCHARGE COLLECTED BY AGENCIES OTHER THAN THE GEOLOGICAL SURVEY

Records of discharge not published by the Geological Survey were collected at many additional sites by many other Federal, State, County, City, and local agencies, and by private organizations. A listing of stream-gaging stations and the agencies operating them are contained in a publication by the California Department of Water Resources, Bulletin 157, Index of Stream-Gaging Stations in and Adjacent to California, 1970, and in publications by the Office of Water Data Coordination, Water Resources Division, U.S. Geological Survey, National Center, Reston, Virginia 22092. Information on records available on specific sites can be obtained upon request.

GOOSE LAKE BASIN

11339500 DREWS CREEK NEAR LAKEVIEW, OREG.

LOCATION.--Lat 42°07'10", long 120°34'45", in NW¼NE¼ sec.10, T.40 S., R.18 E., Lake County, on left bank 10 ft upstream from bridge, 2.0 miles downstream from Willow Creek, 2.7 miles downstream from Drews Dam, and 13 miles southwest of Lakeview.

DRAINAGE AREA.--212 sq mi.

PERIOD OF RECORD.--January 1909 to September 1930 (yearly estimate only for water year 1920), March 1931 to September 1936 (irrigation seasons only), April 1937 to September 1938, March 1939 to October 1941, February 1942, April 1942 to September 1952, February 1953 to September 1970. Monthly discharge only October 1921 to September 1925, published in WSP 1315-A. Published as Drew Creek near Lakeview October 1918 to September 1959.

GAGE.--Water-stage recorder. Datum of gage is 4,827.0 ft above mean sea level (levels by Bureau of Reclamation). See WSP 1931 for history of changes prior to July 4, 1953.

AVERAGE DISCHARGE.--39 years (1912-30, 1937-38, 1939-41, 1946-47, 1953-70), 69.9 cfs (50,640 acre-ft per year), including diversion by North Drews Canal.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	May 11-19, 1966	108	2.74	Feb. 16-22, Mar. 4, 1966	.80
1967	May 18, 1967	665	4.31	Oct. 13, 14, 1966	1.0
1968	Feb. 21, 1968	152	2.60	Oct. 4-6, 1967	.20
1969	Apr. 24, 1969	906	4.76	Nov. 14, 1968	.36
1970	Jan. 27, 1970	1,380	5.17	Oct. 7, 1969	1.0

Period of record: Maximum discharge, about 3,000 cfs Mar. 1, 2, 1910, from rating curve extended above 1,200 cfs; no flow at times.

REMARKS.--Records good except those for winter periods, which are fair. Records herein, except average discharge, not adjusted for diversion by North Drews Canal. Since 1912, flow regulated by Drews Reservoir (capacity, 62,550 acre-ft). Diversion for irrigation above station and, since March 1914, North Drews Canal has diverted above station for irrigation of lands west of Lakeview.

REVISIONS (WATER YEARS).--WSP 1565: 1909-10, 1913, 1918(M). WSP 1735: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	1.3	1.8	1.3	1.7	1.2	18	31	54	40	81	34
2	2.4	1.3	1.8	1.2	1.6	1.1	14	26	51	27	81	30
3	1.9	1.4	1.8	1.2	1.6	.90	11	29	41	25	81	27
4	1.8	1.4	1.8	1.4	1.4	.80	9.1	45	31	26	80	27
5	1.7	1.4	1.9	1.4	1.4	1.0	8.6	52	33	33	67	27
6	2.0	1.4	2.0	2.6	1.3	10	8.6	77	26	33	54	28
7	2.0	1.4	1.9	4.0	1.2	23	8.2	92	27	32	39	34
8	2.0	1.4	1.8	3.0	1.1	29	8.2	92	32	41	56	45
9	2.0	1.4	1.8	2.4	1.1	51	8.2	98	32	41	66	45
10	1.9	1.4	1.8	2.2	1.0	44	13	99	31	41	70	45
11	1.8	1.4	1.7	2.0	.90	17	15	106	27	39	72	45
12	1.8	1.9	1.7	2.0	.90	16	14	108	29	39	69	49
13	1.8	1.8	1.7	2.0	.90	38	9.6	108	47	39	70	49
14	1.8	1.9	1.6	2.0	.90	30	8.6	108	67	39	70	46
15	1.7	1.7	1.6	2.0	.90	18	9.6	108	77	34	69	29
16	1.6	1.4	1.4	2.0	.80	8.6	19	108	84	38	66	21
17	1.6	1.6	1.3	2.0	.80	5.5	36	108	86	40	63	2.5
18	1.4	2.0	1.2	2.0	.80	8.6	54	108	87	49	59	2.3
19	1.7	1.9	1.2	2.0	.80	11	52	108	88	54	55	2.7
20	1.3	1.9	1.2	2.0	.80	7.8	59	105	93	52	55	2.2
21	1.4	1.9	1.2	2.0	.80	6.4	59	98	94	50	54	2.0
22	1.3	1.8	1.2	2.0	.80	5.2	60	88	96	65	49	1.8
23	1.3	1.9	1.3	2.0	.90	6.4	60	80	94	72	44	2.0
24	1.3	2.0	1.3	2.0	1.0	14	60	87	87	72	42	2.0
25	1.2	2.0	1.4	2.0	1.1	22	65	92	87	77	38	2.0
26	1.2	2.0	1.3	2.0	1.1	23	66	81	86	77	39	2.2
27	1.2	1.9	1.3	2.0	1.1	23	50	83	81	81	40	2.2
28	1.2	2.0	1.3	2.0	1.1	22	49	83	73	81	40	2.2
29	1.2	1.9	1.4	1.9	------	22	42	80	69	81	40	2.0
30	1.2	1.9	1.4	1.8	------	22	39	70	52	81	40	2.2
31	1.2	------	1.3	1.8	------	20	------	54	------	81	39	------
TOTAL	80.9	50.6	47.4	62.2	29.80	508.50	933.7	2,612	1,862	1,580	1,788	611.3
MEAN	2.61	1.69	1.53	2.01	1.06	16.4	31.1	84.3	62.1	51.0	57.7	20.4
MAX	33	2.0	2.0	4.0	1.7	51	66	108	96	81	81	49
MIN	1.2	1.3	1.2	1.2	.80	.80	8.2	26	26	25	38	1.8
AC-FT	160	100	94	123	59	1,010	1,850	5,180	3,690	3,130	3,550	1,210
(†)	80	0	0	0	0	0	274	6,020	5,170	5,590	6,220	2,600
(‡)	A39,100	39,740	A40,800	41,300	42,120	A53,800	64,200	54,290	A45,600	A35,300	A24,600	20,300

CAL YR 1965 TOTAL 43,206.00 MEAN 118 MAX 572 MIN 1.2 AC-FT 85,700
WTR YR 1966 TOTAL 10,166.40 MEAN .9 MAX 108 MIN .80 AC-FT 20,170

† DIVERSION IN ACRE-FEET, BY NORTH DREWS CANAL.
‡ *MONTHEND CONTENTS, IN ACRE-FEET, IN DREWS RESERVOIR.*
A CONTENTS INTERPOLATED.

11339500 DREWS CREEK NEAR LAKEVIEW, OREG.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	2.0	3.8	2.0	20	12	7.8	9.0	159	51	88	36
2	1.9	1.9	4.8	2.0	9.0	8.6	8.6	10	159	51	88	21
3	1.8	1.8	7.0	2.0	7.4	5.4	8.2	14	150	50	88	14
4	1.6	1.8	6.2	2.0	6.2	4.5	7.8	19	138	46	88	16
5	1.6	1.8	9.0	2.0	5.8	4.2	9.7	23	138	32	83	34
6	1.4	2.2	5.8	2.0	4.8	6.2	11	26	137	24	77	64
7	1.3	2.0	4.2	1.9	4.5	9.0	36	32	128	27	75	64
8	1.3	1.8	3.8	1.9	4.5	10	27	36	119	36	72	64
9	1.2	1.8	3.5	1.8	4.5	10	16	40	109	39	74	62
10	1.2	2.0	3.5	1.8	4.8	8.2	14	96	104	51	74	62
11	1.2	2.0	3.5	1.9	5.0	7.0	12	238	97	58	68	60
12	1.3	2.2	15	1.9	6.2	5.8	12	308	86	62	63	58
13	1.3	2.2	36	2.2	7.0	5.4	12	349	75	62	63	51
14	1.3	2.2	12	2.2	5.0	4.8	12	391	63	63	63	44
15	1.4	2.2	5.4	2.2	4.5	4.8	11	426	50	68	64	42
16	1.4	3.2	4.2	2.2	4.2	67	9.0	500	44	68	69	42
17	1.4	2.5	3.8	2.2	4.5	50	8.6	583	46	69	63	42
18	1.4	2.2	3.5	2.0	6.6	42	8.6	630	57	75	64	42
19	1.6	2.0	3.2	2.0	5.8	17	7.8	645	68	78	64	39
20	1.6	3.8	3.2	2.2	4.2	17	7.4	620	66	75	64	42
21	1.8	2.8	3.0	2.0	4.0	24	7.0	583	66	78	63	45
22	2.0	2.5	2.5	2.0	4.5	20	8.2	529	63	78	57	58
23	2.0	2.4	2.5	2.0	6.2	20	9.0	484	69	78	57	60
24	2.0	2.2	2.5	2.0	6.6	12	8.6	426	54	80	60	60
25	2.0	2.0	2.5	2.5	5.4	10	10	360	52	83	60	66
26	1.9	2.0	2.4	2.8	5.0	9.0	13	317	57	83	60	66
27	1.8	2.0	2.2	4.0	6.6	9.7	16	275	57	83	60	66
28	1.9	2.8	2.2	7.8	8.6	11	12	252	52	83	62	68
29	1.9	9.0	2.2	78	------	8.2	9.7	238	52	83	63	70
30	1.9	4.2	2.2	72	------	7.4	9.0	208	52	85	58	75
31	2.0	------	2.2	42	------	7.0	------	182	------	88	48	------
TOTAL	50.3	75.5	167.8	257.5	171.4	437.2	349.0	8,849.0	2,567	1,987	2,100	1,533
MEAN	1.62	2.52	5.41	8.31	6.12	14.1	11.6	285	85.6	64.1	67.7	51.1
MAX	2.0	9.0	36	78	20	67	36	645	159	88	88	75
MIN	1.2	1.8	2.2	1.8	4.0	4.2	7.0	9.0	44	24	48	14
AC-FT	100	150	333	511	340	867	692	17,550	5,090	3,940	4,170	3,040
(†)	0	0	0	0	0	0	0	1,530	2,950	3,630	3,940	3,560
(‡)	A19,650	20,690	A25,000	A27,200	A32,200	A43,800	54,160	66,120	A61,800	52,170	A42,500	A35,600

CAL YR 1966 TOTAL 10,281.10 MEAN 28.2 MAX 108 MIN .80 AC-FT 20,390
WTR YR 1967 TOTAL 18,544.70 MEAN 50.8 MAX 645 MIN 1.2 AC-FT 36,780

† DIVERSION IN ACRE-FEET, BY NORTH DREWS CANAL.
‡ MONTHEND CONTENTS, IN ACRE-FEET, IN DREWS RESERVDIR.
A CONTENTS INTERPOLATED.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	1.3	1.2	.70	1.2	4.8	4.8	36	30	64	70	6.6
2	.40	1.3	1.2	.70	.80	4.5	4.8	34	32	58	70	8.6
3	.40	1.4	1.4	.60	.80	4.2	4.8	34	48	50	65	17
4	.20	1.4	1.3	.60	.80	4.2	4.8	36	46	45	65	29
5	.20	1.4	1.6	.50	.80	4.5	5.0	42	44	40	60	30
6	.20	1.4	1.4	.60	.70	4.2	4.8	63	14	32	60	38
7	.40	1.4	1.4	.60	.80	4.0	4.8	62	12	32	60	45
8	.50	1.6	1.3	.60	.90	4.0	4.5	64	12	42	60	45
9	.40	1.9	1.3	.60	1.0	3.8	4.5	69	12	42	60	44
10	.40	1.9	1.2	.60	2.2	3.8	4.5	72	12	44	60	34
11	.50	1.8	1.2	.60	6.2	3.8	4.5	72	11	45	60	32
12	.50	1.4	1.2	.60	2.5	4.0	4.5	72	12	45	57	32
13	.50	1.3	.90	.60	1.8	4.0	4.5	72	12	45	56	38
14	.50	1.3	.80	.70	1.4	4.2	4.5	66	8.6	45	54	36
15	.60	1.3	1.2	1.6	1.0	4.2	4.5	68	5.8	40	42	36
16	.60	1.3	1.2	1.3	.90	4.2	4.2	66	16	45	20	36
17	.60	1.3	.90	1.0	20	4.5	4.2	66	52	50	5.4	33
18	.60	1.3	1.0	.90	34	4.5	4.2	58	80	55	5.4	34
19	.70	1.3	.90	.90	51	4.5	4.2	57	88	60	5.4	40
20	.80	1.3	.90	.90	78	4.2	4.5	54	91	65	4.8	36
21	.90	1.3	.90	.80	97	4.2	5.0	48	91	65	4.2	26
22	1.0	1.3	.80	.90	34	4.2	5.0	48	91	70	3.5	24
23	1.2	1.2	.90	.90	56	4.5	5.0	48	91	70	1.2	27
24	1.2	1.3	.90	.90	15	4.5	5.0	34	91	70	.90	30
25	1.2	1.2	.90	1.0	11	6.2	5.0	16	89	70	.90	30
26	1.3	1.2	.80	1.0	8.2	5.8	7.8	19	88	69	.80	30
27	1.3	1.2	.80	1.0	7.0	5.0	7.8	23	81	69	.80	38
28	1.8	1.2	.80	1.0	5.8	5.0	9.7	23	77	70	.90	38
29	1.4	1.3	.80	1.2	5.0	5.0	23	23	70	70	5.4	38
30	1.4	1.3	.80	1.2	------	5.0	30	24	69	70	6.2	36
31	1.4	------	.70	1.2	------	4.8	------	26	------	70	6.6	------
TOTAL	53.10	41.1	32.60	26.30	445.80	138.3	194.4	1,495	1,476.4	1,707	971.40	967.2
MEAN	1.71	1.37	1.05	.85	15.4	4.46	6.48	48.2	49.2	55.1	31.3	32.2
MAX	30	1.9	1.6	1.6	97	6.2	30	72	91	70	70	45
MIN	.20	1.2	.70	.50	.70	3.8	4.2	16	5.8	32	.80	6.6
AC-FT	105	82	65	52	884	274	386	2,970	2,930	3,390	1,930	1,920
(†)	0	0	0	0	0	0	1,360	3,880	3,900	5,510	2,420	2,370
(‡)	A34,000	A33,950	A35,000	A35,800	A44,800	A47,800	A50,300	39,880	A32,100	A21,300	A15,800	11,440

CAL YR 1967 TOTAL 18,377.90 MEAN 50.4 MAX 645 MIN .20 AC-FT 36,450
WTR YR 1968 TOTAL 7,548.60 MEAN 20.6 MAX 97 MIN .20 AC-FT L4,970

† DIVERSION IN ACRE-FEET, BY NORTH DREWS CANAL.
‡ MONTHEND CONTENTS, IN ACRE-FEET, IN DREWS RESERVDIR.
A CONTENTS INTERPOLATED.

11339500 DREWS CREEK NEAR LAKEVIEW, OREG.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	.46	.58	1.0	14	3.8	75	460	85	42	93	52
2	.64	.64	.58	1.2	13	3.8	39	412	94	34	91	54
3	.58	.52	.58	1.6	12	4.0	33	388	101	23	91	63
4	.52	.46	.58	2.4	12	3.8	33	360	102	24	89	57
5	.46	.46	.58	3.8	10	3.8	33	335	96	46	81	52
6	.46	.46	.58	3.8	8.6	3.8	23	320	94	50	75	56
7	.46	.52	.58	3.5	6.6	3.8	19	296	86	68	74	56
8	.46	.58	.58	3.2	6.2	3.8	23	272	83	69	69	50
9	.46	.64	.58	4.8	7.8	3.5	30	262	63	74	68	44
10	.46	.58	14	4.5	30	3.5	27	250	30	75	68	39
11	.52	.64	3.2	3.5	80	3.0	30	238	19	77	68	42
12	.76	.76	1.9	2.8	93	3.2	33	225	9.0	77	68	38
13	.70	.52	1.4	2.8	39	2.8	88	232	3.5	77	68	22
14	.70	.40	1.3	3.0	26	2.8	255	225	3.2	83	69	23
15	.64	.52	1.3	3.0	17	2.8	388	212	2.8	83	69	38
16	.58	.46	1.3	3.5	12	3.2	484	200	2.2	83	68	38
17	.58	.46	1.2	4.0	11	4.0	578	182	2.2	85	68	33
18	.52	.64	1.2	6.0	8.6	6.6	760	174	2.2	88	68	24
19	.52	.58	1.2	10	7.0	5.8	760	165	9.0	89	66	24
20	.52	.58	1.0	35	6.2	6.2	760	148	9.0	89	63	24
21	.52	.76	.88	60	5.4	6.2	785	131	8.6	89	63	29
22	.52	.64	.88	40	5.0	9.0	795	122	8.6	86	63	45
23	.52	.64	.94	30	4.8	14	840	109	14	86	64	45
24	.46	.70	1.0	35	4.5	12	870	99	6.6	83	64	40
25	.46	.70	1.0	40	4.5	15	750	83	4.0	81	64	40
26	.46	.64	1.0	35	4.2	24	680	81	6.6	60	64	40
27	.46	.64	1.0	30	4.0	26	610	91	12	63	63	40
28	.46	.58	1.0	25	3.8	39	570	89	12	72	60	39
29	.46	.58	1.2	20	------	46	524	91	12	86	56	33
30	.52	.58	1.0	18	------	75	492	89	13	93	52	33
31	.46	------	1.0	15	------	107	------	86	------	93	52	------
TOTAL	32.84	17.34	45.12	451.4	456.2	451.2	11,387	6,427	993.5	2,228	2,139	1,213
MEAN	1.06	.58	1.46	14.6	16.3	14.6	380	207	33.1	71.9	69.0	40.4
MAX	17	.76	14	60	93	107	870	460	102	93	93	63
MIN	.46	.40	.58	1.0	3.8	2.8	19	81	2.2	23	52	22
AC-FT	65	34	89	895	905	895	22,590	12,750	1,970	4,420	4,240	2,410
(†)	36	0	0	0	0	0	0	1,330	1,820	3,680	3,460	2,180
(‡)	10,970	11,700	12,400	13,000	17,200	39,370	67,050	62,400	60,110	47,800	39,600	34,000

CAL YR 1968 TOTAL 7,517.10 MEAN 20.5 MAX 97 MIN .40 AC-FT 14,910
WTR YR 1969 TOTAL 25,841.60 MEAN 70.8 MAX 870 MIN .40 AC-FT 51,260

† DIVERSION IN ACRE-FEET, BY NORTH DREWS CANAL.
‡ MONTHEND CONTENTS, IN ACRE-FEET, OF DREWS RESERVOIR.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	1.2	1.6	3.0	420	210	140	83	99	58	64	65
2	1.6	1.2	1.6	3.0	368	222	136	83	104	58	64	63
3	1.1	1.2	1.6	3.0	332	218	136	78	107	55	67	50
4	1.1	1.2	1.6	3.0	305	212	134	70	110	48	77	42
5	1.1	2.3	1.7	3.0	284	205	134	52	113	43	81	21
6	1.1	1.6	1.6	3.5	266	210	115	47	122	51	88	21
7	1.0	1.4	1.6	4.0	263	222	99	47	141	61	89	21
8	1.1	1.4	1.7	5.0	260	263	96	48	143	71	91	25
9	1.1	1.4	1.8	6.2	260	266	97	56	120	70	92	39
10	1.4	1.4	1.8	7.8	260	260	105	70	94	65	105	40
11	1.2	1.6	2.0	7.0	263	257	112	77	68	65	99	44
12	1.2	1.8	10	10	278	257	110	89	59	60	104	41
13	1.2	1.6	11	40	302	257	112	97	59	60	99	41
14	1.6	1.6	6.2	71	302	272	117	96	59	56	92	42
15	2.3	1.6	3.8	26	296	305	110	94	36	58	83	42
16	2.0	1.6	2.9	37	284	311	100	94	41	64	71	41
17	1.6	1.4	2.3	51	284	311	96	92	36	67	77	38
18	1.2	1.4	2.6	38	269	296	96	92	36	71	83	33
19	1.2	1.4	7.0	33	254	275	110	92	35	72	77	33
20	1.2	1.4	11	26	239	260	110	89	34	80	77	32
21	1.2	1.4	36	46	228	254	110	84	36	80	77	28
22	1.2	1.6	11	100	220	239	110	75	52	78	72	25
23	1.2	1.6	6.2	143	208	218	102	70	64	71	71	25
24	1.2	1.6	5.0	236	199	195	88	70	65	64	74	25
25	1.2	1.4	5.0	448	191	183	86	70	71	64	83	24
26	1.2	1.4	5.0	700	183	185	86	81	77	65	83	24
27	1.2	1.4	4.1	1,240	177	169	86	99	84	72	77	26
28	1.2	1.4	3.5	940	185	169	88	105	94	71	74	30
29	1.2	1.6	2.9	715	------	165	86	104	81	70	72	30
30	1.2	1.6	2.9	615	------	153	84	99	60	61	72	30
31	1.2	------	3.0	500	------	145	------	99	------	61	70	------
TOTAL	63.5	44.7	160.0	6,063.5	7,380	7,164	3,191	2,502	2,300	1,990	2,505	1,041
MEAN	2.05	1.49	5.16	196	264	231	106	80.7	76.7	64.2	80.8	34.7
MAX	25	2.3	36	1,240	420	311	140	105	143	80	105	65
MIN	1.0	1.2	1.6	3.0	177	145	84	47	34	43	64	21
AC-FT	126	89	317	12,030	14,640	14,210	6,330	4,960	4,560	3,950	4,970	2,060
(†)	44	0	0	0	0	0	0	2,240	3,940	4,040	3,500	1,660
(‡)	34,150	34,300	39,700	66,100	63,200	68,950	63,750	61,800	55,500	46,500	36,780	32,000

CAL YR 1969 TOTAL 26,014.5 MEAN 71.3 MAX 870 MIN 1.0 AC-FT 51,600
WTR YR 1970 TOTAL 34,404.7 MEAN 94.3 MAX 1,240 MIN 1.0 AC-FT 68,240

† DIVERSION IN ACRE-FEET, BY NORTH DREWS CANAL.
‡ MONTHEND CONTENTS, IN ACRE-FEET, OF DREWS RESERVOIR.

11340500 COTTONWOOD CREEK NEAR LAKEVIEW, OREG.

LOCATION.--Lat 42°14'05", long 120°30'05", in N½ sec.32, T.38 S., R.19 E., Lake County, on right bank 0.7 mile downstream from Cottonwood Dam and 9 miles northwest of Lakeview.

DRAINAGE AREA.--32.9 sq mi.

PERIOD OF RECORD.--November 1908 to September 1919, May 1924 to November 1935, March to December 1936, April to December 1937, April 1938 to November 1942, March to November 1943, March to October 1944, February to November 1945, March 1946 to September 1970. Monthly discharge only May 1924 to September 1925, published in WSP 1315-A.

GAGE.--Water-stage recorder. Datum of gage is 4,949.37 ft above mean sea level (levels by Bureau of Reclamation). Prior to June 1, 1919, and May 1, 1924, to June 3, 1932, nonrecording gage at several sites within 0.6 mile upstream at different datums. June 1 to Sept. 30, 1919, and June 4, 1932, to Sept. 14, 1961, water-stage recorder at site 0.6 mile upstream at different datums.

AVERAGE DISCHARGE.--49 years (1909-19, 1924-35, 1938-42, 1946-70), 21.3 cfs (15,430 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	May 17, 1966	71	2.15	Mar. 26, 1966	.80
1967	June 20, 1967	100	2.24	Jan. 13-16, 19, 22-24, 1967	.20
1968	June 22-27, 1968	53	2.06	Feb. 8-12, 1968	.20
1969	May 12, 1969	168	2.33	Oct. 1, 1968	.28
1970	May 9, 1970	99	2.16	Oct. 22 to Dec. 11, Dec. 15-17,1969	.20

Period of record: Maximum discharge, between 500 and 1,000 cfs during period Apr. 26 to May 1, 1927, when natural flow (estimated as 170 cfs) was augmented by water escaping from reservoir through break in outlet conduit near control gates; no flow at times.

REMARKS.--Records good except those below 10 cfs, which are fair. Flow regulated since 1923 by Cottonwood Reservoir (capacity, 7,540 acre-ft). Since October 1961, 240 acre-ft unregulated storage in Cottonwood Meadows, 9 miles upstream. Diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 1565: 1910-11, 1919, 1929, 1937(M). WSP 1931: Drainage area (former site).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	4.0	4.6	4.6	5.2	1.0	1.6	17	21	44	32	3.5
2	4.6	4.6	4.6	4.6	5.2	1.0	1.0	17	14	41	28	2.8
3	3.0	4.6	4.6	4.6	5.2	1.0	.90	17	2.8	41	26	2.8
4	3.0	4.6	4.6	4.6	5.2	1.0	.90	20	1.3	41	21	2.5
5	3.5	4.6	4.6	5.2	5.2	1.0	.90	26	1.0	39	20	2.5
6	4.6	4.6	4.6	5.2	5.7	1.0	2.5	28	1.8	36	20	2.5
7	4.6	4.6	4.6	5.2	5.7	1.1	3.5	31	6.8	36	20	2.1
8	4.6	4.6	4.0	5.7	2.8	1.1	3.5	39	7.4	34	18	1.6
9	5.2	4.6	4.0	5.7	1.8	1.1	18	48	2.5	32	18	1.8
10	5.2	4.0	4.0	5.7	1.8	1.6	26	53	.90	32	21	2.5
11	4.6	4.0	4.0	5.2	1.8	1.3	26	53	2.8	29	44	9.9
12	4.6	4.0	4.6	5.2	1.8	1.8	26	56	3.5	26	44	3.5
13	4.0	3.5	4.6	5.2	1.8	7.4	26	58	4.0	24	39	1.6
14	4.0	4.0	4.6	5.2	1.6	14	28	56	4.0	23	39	1.6
15	4.0	4.0	4.0	5.7	1.6	7.9	28	58	11	21	39	1.8
16	4.6	4.0	4.0	5.2	1.6	4.6	29	58	20	17	44	1.8
17	4.6	4.0	4.0	5.2	1.6	5.7	29	58	24	20	48	1.6
18	4.6	3.5	4.0	5.7	1.6	2.5	31	56	26	18	51	1.3
19	4.6	3.5	4.0	5.2	1.6	2.8	31	51	36	18	48	1.3
20	3.3	3.5	4.0	5.2	1.6	2.5	31	51	56	7.1	46	1.8
21	3.3	3.5	4.0	5.7	1.6	2.3	29	51	56	9.1	46	1.8
22	3.3	3.5	4.0	5.2	1.6	2.3	31	51	58	23	36	1.8
23	3.3	3.5	3.5	5.2	1.6	2.3	31	51	58	26	34	1.8
24	3.5	3.5	4.0	5.7	1.3	3.0	32	48	58	26	34	1.8
25	3.5	3.5	4.0	5.7	1.1	3.0	32	48	58	32	34	1.8
26	3.5	3.5	4.0	5.7	1.1	1.6	32	44	58	41	36	1.6
27	4.0	4.0	4.6	5.7	1.1	2.1	32	41	53	41	41	1.6
28	4.0	4.6	4.6	5.7	1.1	2.3	15	41	48	39	41	1.8
29	4.0	5.2	4.6	5.7	------	2.1	13	41	48	36	28	1.8
30	4.0	5.2	4.6	5.7	------	1.8	16	39	48	34	20	1.8
31	4.0	------	4.6	5.7	------	2.1	------	32	------	32	11	------
TOTAL	127.8	122.8	132.5	165.8	70.9	86.3	606.80	1,338	789.80	918.2	1,027	68.4
MEAN	4.12	4.09	4.27	5.35	2.53	2.78	20.2	43.2	26.3	29.6	33.1	2.28
MAX	6.2	5.2	4.6	5.7	5.7	14	32	58	58	44	51	9.9
MIN	3.0	3.5	3.5	4.6	1.1	1.0	.90	17	.90	7.1	11	1.3
AC-FT	253	244	263	329	141	171	1,200	2,650	1,570	1,820	2,040	136
(†)	810	832	890	910	932	2,200	4,150	3,100	2,250	900	100	60

CAL YR 1965 TOTAL 14,183.80 MEAN 38.9 MAX 160 MIN 2.1 AC-FT 28,130
WTR YR 1966 TOTAL 5,454.30 MEAN 14.9 MAX 58 MIN .90 AC-FT 10,820

† MONTHEND CONTENTS, IN ACRE-FEET, IN COTTONWOOD RESERVOIR.

11340500 COTTONWOOD CREEK NEAR LAKEVIEW, OREG.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	4.0	7.9	.30	.40	.70	2.1	23	62	87	56	7.5
2	2.1	4.0	7.9	.30	.30	.50	2.3	24	58	83	51	11
3	1.8	4.6	7.9	.30	.30	.40	2.3	24	58	71	46	11
4	1.8	4.6	8.4	.20	.30	.40	2.5	24	62	66	44	11
5	2.1	4.6	9.0	.20	.30	.40	2.3	26	62	62	44	11
6	1.8	4.0	9.0	.20	.30	.50	2.5	26	62	62	44	12
7	2.1	4.6	9.0	.20	.30	.70	4.0	26	58	62	44	12
8	1.8	4.6	9.0	.20	.30	.90	4.6	26	56	62	46	12
9	2.1	3.3	9.0	.20	.30	.90	3.3	28	56	62	48	7.9
10	2.1	2.3	9.0	.20	.30	.70	3.0	28	62	62	51	6.8
11	2.1	2.3	9.0	.20	.30	.50	17	28	66	56	58	6.8
12	2.3	2.3	9.9	.20	.30	.50	28	28	66	53	58	6.8
13	2.3	1.8	11	.20	.30	.40	26	28	75	53	58	6.8
14	3.0	.80	9.9	.20	.30	.40	26	29	75	56	58	6.8
15	2.8	.50	9.9	.20	.30	.50	24	29	75	56	58	6.8
16	2.3	1.0	1.3	.20	.30	4.6	24	29	75	56	58	6.8
17	2.5	1.1	.30	.30	.30	7.9	24	29	75	58	62	6.8
18	2.5	1.8	.30	.20	.30	5.2	24	16	79	56	58	5.2
19	2.5	2.8	.30	.20	.30	2.8	24	4.6	87	62	56	3.5
20	2.8	3.5	.20	.20	.30	3.0	24	12	100	66	56	2.8
21	2.8	4.6	.20	.20	.30	5.2	24	23	96	66	53	3.0
22	3.0	5.2	.30	.20	.30	5.2	24	31	96	66	51	3.0
23	3.0	5.2	.20	.20	.30	5.2	23	34	92	87	51	3.3
24	3.3	6.2	.20	.20	.30	3.3	23	34	87	87	51	3.3
25	3.3	6.2	.20	.20	.30	2.8	23	39	83	87	48	3.3
26	3.5	6.2	.20	.20	.30	1.8	21	41	83	87	46	3.5
27	3.5	6.8	.30	.20	.40	2.5	21	44	83	83	46	8.6
28	3.5	7.4	.30	.30	.50	2.1	21	48	83	75	39	15
29	3.5	7.9	.20	4.6	------	1.8	23	66	87	66	32	15
30	3.5	7.9	.20	9.9	------	2.1	23	71	92	62	24	15
31	4.0	------	.30	1.3	------	2.1	------	71	------	58	9.4	------
TOTAL	81.8	122.10	140.80	21.90	8.80	66.00	495.9	989.6	2,251	2,075	1,504.4	234.3
MEAN	2.64	4.07	4.54	.71	.31	2.13	16.5	31.9	75.0	66.9	48.5	7.81
MAX	4.0	7.9	11	9.9	.50	7.9	28	71	100	87	62	15
MIN	1.8	.50	.20	.20	.30	.40	2.1	4.6	56	53	9.4	2.8
AC-FT	162	242	279	43	17	131	984	1,960	4,460	4,120	2,980	465
(†)	40	300	700	1,200	1,700	3,100	3,730	8,900	7,000	3,760	832	618

CAL YR 1966 TOTAL 5,415.90 MEAN 14.8 MAX 58 MIN .20 AC-FT 10,740
WTR YR 1967 TOTAL 7,991.60 MEAN 21.9 MAX 100 MIN .20 AC-FT 15,850

† MONTHEND CONTENTS, IN ACRE-FEET, IN COTTONWOOD RESERVOIR.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	1.8	2.3	2.1	2.1	.80	8.0	18	13	28	18	9.0
2	.80	1.8	2.3	2.1	2.1	.80	14	26	13	28	18	9.9
3	1.0	1.8	2.3	1.8	2.1	.80	14	28	13	14	18	14
4	1.0	2.1	2.3	1.8	2.1	.70	14	31	13	9.0	18	14
5	1.0	2.1	2.3	1.8	.70	.70	14	32	13	1.6	18	18
6	1.0	2.1	2.3	1.8	.30	.70	14	36	13	.50	18	21
7	1.0	2.1	2.3	1.8	.30	.60	14	34	7.9	.50	14	26
8	1.0	2.1	2.3	1.8	.20	.70	14	34	5.7	.50	11	29
9	1.0	2.1	2.3	1.8	.20	.60	14	34	5.7	2.1	7.9	28
10	1.0	2.1	2.1	1.8	.20	.60	14	34	5.7	5.7	6.2	20
11	1.0	2.1	2.1	1.8	.20	.60	18	34	5.7	6.2	7.9	17
12	1.0	2.1	2.1	1.8	.20	.60	26	34	5.7	6.2	7.9	17
13	1.0	2.1	2.1	1.8	.30	.60	26	24	5.7	6.2	7.9	17
14	1.0	2.1	2.1	1.8	.40	.60	26	18	5.7	6.8	7.9	17
15	1.0	2.1	1.8	1.8	.30	.70	26	14	6.2	6.8	9.0	16
16	1.0	2.1	1.8	1.8	.30	.70	26	7.4	6.2	6.8	9.0	16
17	1.0	2.1	2.1	1.8	.30	.70	26	5.7	5.7	6.8	9.0	16
18	1.0	2.1	2.1	1.8	.40	.70	26	5.7	13	6.8	3.0	16
19	1.0	2.1	1.8	1.8	.50	.70	26	5.7	29	6.8	1.0	16
20	1.0	2.1	1.8	1.8	.90	.70	26	5.7	46	6.8	1.0	15
21	1.0	2.1	1.8	1.8	2.1	.70	26	5.7	51	6.8	1.0	15
22	1.1	2.1	1.8	1.8	3.3	.70	12	6.2	53	11	1.1	16
23	1.3	2.1	1.8	1.8	6.8	.70	5.2	6.2	53	14	1.1	16
24	1.6	2.1	1.8	2.1	1.8	.80	5.2	6.2	53	18	1.1	12
25	1.6	2.1	1.8	2.1	1.0	.80	5.2	6.2	53	20	1.1	7.4
26	1.3	2.1	1.8	2.1	.90	.80	5.2	8.4	53	24	1.1	4.6
27	1.3	2.3	1.8	1.8	.80	.80	5.2	13	53	24	1.1	3.3
28	1.6	2.3	1.8	1.8	.80	.80	5.7	14	39	26	1.3	3.5
29	1.6	2.3	1.8	1.8	.80	.80	6.2	16	31	26	5.7	3.5
30	1.6	2.3	1.8	2.1	------	.80	8.4	14	31	26	9.0	4.0
31	1.6	------	1.8	2.1	------	.80	------	13	------	23	9.0	------
TOTAL	37.70	62.9	62.4	57.9	32.40	22.10	470.3	570.1	701.9	374.90	243.3	437.2
MEAN	1.22	2.10	2.01	1.87	1.12	.71	15.7	18.4	23.4	12.1	7.85	14.6
MAX	3.3	2.3	2.3	2.1	6.8	.80	26	36	53	28	18	29
MIN	.80	1.8	1.8	1.8	.20	.60	5.2	5.7	5.7	.50	1.0	3.3
AC-FT	75	125	124	115	64	44	933	1,130	1,390	744	483	867
(†)	650	700	800	850	2,400	3,300	3,550	3,320	2,500	1,700	1,300	700

CAL YR 1967 TOTAL 7,809.90 MEAN 21.4 MAX 100 MIN .20 AC-FT 15,490
WTR YR 1968 TOTAL 3,073.10 MEAN 8.40 MAX 53 MIN .20 AC-FT 6,100

† MONTHEND CONTENTS, IN ACRE-FEET, IN COTTONWOOD RESERVOIR.

11340500 COTTONWOOD CREEK NEAR LAKEVIEW, OREG.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.68	.54	.68	1.3	1.6	2.1	11	71	87	24	51	29
2	.30	.54	.68	1.3	1.6	2.1	7.9	71	87	28	48	29
3	.32	.54	.75	1.3	1.6	2.1	8.4	71	87	28	51	28
4	.34	.54	.75	1.3	1.6	2.1	8.4	71	87	28	53	28
5	.34	.54	.82	1.3	1.6	2.1	8.4	58	87	29	56	28
6	.34	.54	.82	1.3	1.6	2.1	7.9	58	87	32	53	28
7	.47	.54	.82	1.3	1.6	2.1	7.4	58	75	39	46	28
8	.61	.54	.82	1.3	1.8	2.1	7.9	58	62	44	46	28
9	.68	.54	.82	1.3	1.8	2.1	8.4	58	46	44	46	28
10	.68	.47	.89	1.3	1.6	2.1	7.4	83	14	44	46	32
11	.75	.54	.82	1.3	2.1	2.1	7.9	148	5.2	46	48	32
12	.75	.54	.82	1.3	2.1	2.1	7.9	154	5.2	51	51	32
13	.75	.47	.82	1.3	1.8	2.1	6.8	148	5.2	53	51	31
14	.75	.47	.82	1.6	1.8	2.1	6.8	136	5.2	56	51	31
15	.68	.47	.82	1.6	2.1	2.1	6.2	124	5.2	58	53	29
16	.54	.47	.89	1.3	2.1	2.1	6.8	118	5.2	58	53	29
17	.54	.47	.96	1.3	2.1	2.3	6.8	106	5.2	58	53	26
18	.54	.61	1.0	1.3	2.1	2.5	6.8	96	5.7	58	53	24
19	.54	.54	1.0	1.6	2.1	2.5	6.2	96	17	58	53	21
20	.54	.54	1.0	1.8	2.1	2.5	6.2	96	26	58	58	20
21	.54	.54	1.3	2.1	2.1	2.5	6.2	87	26	58	58	20
22	.54	.54	1.6	1.8	2.1	2.8	6.2	79	26	58	58	16
23	.54	.54	1.6	1.8	2.1	3.0	6.2	79	21	58	58	15
24	.54	.54	1.6	1.6	2.1	3.0	47	83	20	58	58	15
25	.54	.54	1.6	1.6	2.1	3.3	71	87	21	58	58	15
26	.47	.54	1.6	1.8	2.1	4.0	71	87	21	58	58	15
27	.47	.61	1.6	1.8	2.1	5.2	71	87	21	58	58	13
28	.47	.61	1.6	1.8	2.1	6.8	71	87	21	58	51	13
29	.54	.61	1.3	1.6	------	7.4	71	87	21	58	41	9.9
30	.54	.68	1.3	1.6	------	11	71	87	21	58	32	7.9
31	.54	------	1.3	1.6	------	15	------	87	------	53	29	------
TOTAL	16.87	16.20	33.20	46.5	53.6	107.4	643.1	2,816	1,023.1	1,527	1,579	700.8
MEAN	.54	.54	1.07	1.50	1.91	3.46	21.4	90.8	34.1	49.3	50.9	23.4
MAX	.75	.68	1.6	2.1	2.1	15	71	154	87	58	58	32
MIN	.30	.47	.68	1.3	1.6	2.1	6.2	58	5.2	24	29	7.9
AC-FT	33	32	66	92	106	213	1,280	5,590	2,030	3,030	3,130	1,390
(†)	748	920	1,000	1,100	1,300	3,400	8,260	8,000	8,170	5,750	3,100	1,800

CAL YR 1968 TOTAL 2,976.37 MEAN 8.13 MAX 53 MIN .20 AC-FT 5,900
WTR YR 1969 TOTAL 8,562.77 MEAN 23.5 MAX 154 MIN .30 AC-FT 16,980

† MONTHEND CONTENTS, IN ACRE-FEET, IN COTTONWOOD RESERVOIR.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	.20	.20	.50	54	31	36	29	91	27	54	41
2	3.0	.20	.20	.50	43	31	34	29	83	25	54	41
3	3.0	.20	.20	.40	41	31	32	31	83	23	54	41
4	3.2	.20	.20	.40	40	29	32	36	83	23	54	41
5	3.2	.20	.20	.40	38	29	32	36	83	23	57	36
6	3.2	.20	.20	.40	38	29	36	40	79	23	66	31
7	3.2	.20	.20	.40	36	32	38	40	75	27	60	31
8	2.4	.20	.20	.40	38	38	40	54	72	34	57	31
9	1.4	.20	.20	.50	40	34	41	91	69	40	57	31
10	1.8	.20	.20	.60	41	34	43	95	66	41	57	31
11	1.8	.20	.20	.60	45	34	51	91	54	45	57	31
12	1.8	.20	.30	.80	60	34	51	72	51	45	60	26
13	1.9	.20	.40	1.2	66	34	54	60	43	45	63	26
14	1.3	.20	.30	3.8	54	40	54	54	40	45	60	26
15	.60	.20	.20	4.0	48	45	51	48	36	45	60	26
16	.60	.20	.20	3.8	45	45	43	51	29	43	60	26
17	.60	.20	.20	4.5	45	45	38	57	17	40	60	26
18	.50	.20	.30	5.4	40	41	36	72	10	40	60	26
19	.50	.20	.40	4.8	36	38	40	79	10	40	60	26
20	.30	.20	.50	4.8	32	36	38	83	10	45	60	26
21	.30	.20	5.8	12	31	36	36	83	16	51	60	25
22	.20	.20	4.2	11	29	36	32	79	23	51	60	20
23	.20	.20	3.2	15	29	36	31	72	40	51	57	15
24	.20	.20	2.8	7.8	27	36	29	72	57	45	57	14
25	.20	.20	2.0	7.8	27	38	29	72	69	45	57	14
26	.20	.20	1.0	9.0	26	40	29	48	69	45	54	15
27	.20	.20	.80	7.8	25	38	29	75	69	48	51	15
28	.20	.20	.70	6.2	26	38	29	83	69	51	51	15
29	.20	.20	.60	4.5	------	38	29	83	60	51	45	15
30	.20	.20	.60	20	------	40	29	83	36	54	43	15
31	.20	------	.50	51	------	38	------	87	------	54	43	------
TOTAL	42.30	6.00	27.20	190.30	1,100	1,124	1,122	1,985	1,592	1,265	1,748	783
MEAN	1.36	.20	.88	6.14	39.3	36.3	37.4	64.0	53.1	40.8	56.4	26.1
MAX	5.7	.20	5.8	51	66	45	54	95	91	54	66	41
MIN	.20	.20	.20	.40	25	29	29	29	10	23	43	14
AC-FT	84	12	54	377	2,180	2,230	2,230	3,940	3,160	2,510	3,470	1,550
(†)	1,850	2,100	2,900	8,600	8,700	8,840	8,660	8,700	7,550	5,150	2,240	965

CAL YR 1969 TOTAL 8,572.00 MEAN 23.5 MAX 154 MIN .20 AC-FT 17,000
WTR YR 1970 TOTAL 10,984.80 MEAN 30.1 MAX 95 MIN .20 AC-FT 21,790

† MONTHEND CONTENTS, IN ACRE-FEET, IN COTTONWOOD RESERVOIR.

11341360 LAKE SISKIYOU NEAR MOUNT SHASTA, CALIF.

LOCATION.--Lat 41°16'46", long 122°19'43", in SE¼SE¼ sec.29, T.40 N., R.4 W., Siskiyou County, on left bank abutment of Box Canyon Dam on Sacramento River, 2.5 miles southwest of town of Mount Shasta.

DRAINAGE AREA.--127 sq mi.

PERIOD OF RECORD.--February 1969 to September 1970.

GAGE.--Nonrecording gage. Datum of gage is at mean sea level (levels by Siskiyou County).

EXTREMES.--Maximums and minimums (contents in acre-feet, elevation in feet) for February 1969 to September 1970 are contained in the following table:

	Maximum observed			Minimum observed		
Wtr yr	Date	Contents	Elevation	Date	Contents	Elevation
1969	May 31, 1969	26,500	3,182.0	Feb. 28, 1969	a750	3,053
1970	Jan. 23, 1970	28,200	3,185.55	Feb. 28, 1970	a22,010	-

a Minimum monthend contents.

Period of record: Maximum contents observed, 28,200 acre-ft Jan. 23, 1970 (elevation, 3,185.55 ft); minimum monthend contents observed, 750 acre-ft Feb. 28, 1969 (elevation, 3,053 ft).

REMARKS.--Reservoir is formed by an earthfill and gravity-type concrete dam. Storage began in February 1969. Usable capacity, 25,500 acre-ft between elevations 3,047.5 (invert of tunnel) and 3,181.0 ft (elevation of spillway). Dead storage, 600 acre-ft.

COOPERATION.--Record of contents furnished by Siskiyou County.

MONTHEND ELEVATION AND CONTENTS, AT ABOUT 0800, FEBRUARY 1969 TO SEPTEMBER 1970

DATE	ELEVATION (FEET)	CONTENTS (ACRE-FEET)	CHANGE IN CONTENTS (ACRE-FEET)
FEB. 28, 1969......	3,053	750	-
MAR. 31............	3,083	3,070	+2,320
APR. 30............	3,116	7,760	+4,690
MAY 31............	3,182	26,500	+18,740
JUNE 30............	3,175	23,600	-2,900
JULY 31............	3,177	24,400	+800
AUG. 31............	3,170	21,700	-2,700
SEPT.30............	3,121	8,670	-13,030
OCT. 31............	3,121	8,670	0
NOV. 30............	3,134.0	11,300	+2,630
DEC. 31............	3,182.0	26,500	+15,200
CAL YR 1969......	-	-	-
JAN. 31, 1970......	3,182.0	26,500	0
FEB. 28............	-	22,010	-4,490
MAR. 31............	3,175.4	23,800	+2,500
APR. 30............	3,181.5	26,300	+2,500
MAY 31............	3,180.75	26,000	-300
JUNE 30............	3,180.4	25,800	-200
JULY 31............	3,180.4	25,800	0
AUG. 31............	3,180.95	26,100	+300
SEPT.30............	3,180.2	25,800	-300
WTR YR 1970......	-	-	+17,100

11341400 SACRAMENTO RIVER NEAR MOUNT SHASTA, CALIF.

LOCATION.--Lat 41°15'56", long 122°18'32", in SE¼SE¼ sec.33, T.40 N., R.4 W., Siskiyou County, on left bank 200 ft upstream from Stink Creek, 0.3 mile upstream from Southern Pacific Railroad bridge, and 3.3 miles (revised) south of town of Mount Shasta. Prior to July 1, 1966, at site 500 ft upstream.

DRAINAGE AREA.--135 sq mi. Area at site used prior to July 1, 1966, 134 sq mi.

PERIOD OF RECORD.--October 1959 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 2,800 ft (from topographic map). Prior to July 1, 1966, at site 500 ft upstream at datum 4.26 ft higher.

AVERAGE DISCHARGE.--10 years (1959-69), 245 cfs (177,500 acre-ft per year), unadjusted (adjusted for storage since February 1969).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (1,500 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Nov. 17, 1965	1800	*2,480	6.34	Mar. 16, 1967	1030	1,740	5.54	June 3, 1969	1845	*1,490	4.85
				May 8, 1967	2215	1,530	5.33				
Nov. 20, 1966	0100	*2,720	6.38	May 22, 1967	2030	1,820	5.62	Jan. 23, 1970	1715	*4,070	7.14
Dec. 4, 1966	2400	1,850	5.65								
Jan. 29, 1967	0545	1,770	5.57	Feb. 23, 1968	0715	*1,140	4.90				

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	(a)	45	1969	Dec. 19, 1968	26
1967	Oct. 1, 2, 1966	48	1970	Oct. 31 to Nov. 3, 1969	34
1968	Sept. 8-10, 1968	46			

a Several days in August and September 1966.

Period of record: Maximum discharge, 12,200 cfs Dec. 22, 1964 (gage height, 12.6 ft, from floodmarks, present site and datum), from slope-area measurement of peak flow; minimum, 37 cfs Sept. 6, 1962. Maximum discharge since construction of Box Canyon Dam in 1968, 4,070 cfs Jan. 23, 1970 (gage height, 7.14 ft); minimum daily, 26 cfs Dec. 19, 1968.

REMARKS.--Records good. Beginning in December 1968, flow regulated by Box Canyon Dam 2 miles upstream (capacity, 26,000 acre-ft). See schematic diagram of Pit and McCloud River basins elsewhere in this report. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

COOPERATION.--Records through June 30, 1966, furnished by California Department of Water Resources and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	56	180	122	148	180	1,010	554	208	78	49	47
2	50	57	178	124	143	170	997	604	197	77	48	46
3	51	56	186	126	150	165	890	657	186	77	47	46
4	50	62	186	170	223	160	805	785	173	75	47	45
5	51	64	203	229	242	162	833	876	160	71	47	45
6	52	61	217	343	214	191	912	785	160	68	48	45
7	51	100	214	300	191	211	935	681	168	66	47	45
8	50	156	208	339	178	304	876	645	168	64	47	45
9	51	84	194	275	170	501	890	675	160	66	46	45
10	52	75	183	239	168	604	847	645	153	64	46	46
11	53	76	178	211	158	452	712	576	150	62	45	46
12	53	124	170	197	150	447	609	522	141	61	45	46
13	52	360	160	186	146	675	570	511	137	60	46	50
14	54	900	153	183	146	663	587	476	137	59	45	49
15	56	931	141	217	146	592	675	424	132	57	46	49
16	57	347	137	217	146	452	847	401	128	56	46	48
17	57	1,070	134	200	146	375	883	388	124	56	47	48
18	58	1,650	134	189	150	339	771	384	117	55	47	56
19	58	912	130	180	162	323	633	401	115	54	49	54
20	58	466	126	173	158	297	554	438	113	54	47	52
21	57	335	128	168	158	282	522	452	108	51	48	51
22	58	272	122	165	186	282	532	388	104	49	47	51
23	58	286	119	158	217	282	570	331	102	49	46	51
24	57	327	122	155	223	300	651	312	98	48	46	50
25	56	258	119	153	200	343	738	315	91	48	46	50
26	54	226	119	150	189	424	687	319	88	50	46	50
27	54	211	119	148	183	538	592	304	84	50	47	49
28	57	194	165	146	186	657	554	282	83	49	47	49
29	56	186	150	162	------	778	527	258	83	49	49	48
30	57	186	134	160	------	876	527	252	81	49	49	48
31	57	------	128	153	------	942	------	232	------	49	49	------
TOTAL	1,685	10,088	4,837	5,938	4,877	12,967	21,736	14,873	3,949	1,821	1,455	1,450
MEAN	54.4	336	156	192	174	418	725	480	132	58.7	46.9	48.3
MAX	58	1,650	217	343	242	942	1,010	876	208	78	49	56
MIN	50	56	119	122	143	160	522	232	81	48	45	45
AC-FT	3,340	20,010	9,590	11,780	9,670	25,720	43,110	29,500	7,830	3,610	2,890	2,880

CAL YR 1965 TOTAL 88,300 MEAN 242 MAX 1,680 MIN 50 AC-FT 175,100
WTR YR 1966 TOTAL 85,676 MEAN 235 MAX 1,650 MIN 45 AC-FT 169,900

11341400 SACRAMENTO RIVER NEAR MOUNT SHASTA, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	53	620	155	562	195	302	247	582	223	71	51
2	48	52	752	150	458	199	289	268	517	210	70	50
3	49	53	590	149	382	191	277	304	502	200	68	51
4	49	52	1,170	148	354	180	263	360	564	184	67	51
5	49	53	1,000	145	352	176	278	430	624	171	66	51
6	49	80	532	136	340	175	332	535	677	158	66	50
7	49	68	399	133	326	178	328	752	701	145	65	50
8	49	65	331	130	313	182	313	1,120	678	136	64	50
9	49	65	311	130	306	192	321	1,210	671	127	63	51
10	49	64	303	130	317	237	424	906	653	120	62	51
11	49	72	295	130	313	228	396	699	648	113	61	50
12	49	83	343	128	327	211	369	595	626	108	61	50
13	50	195	528	131	334	199	373	572	598	104	60	50
14	50	404	516	134	309	189	363	649	602	102	59	49
15	51	496	398	137	281	206	360	853	620	100	57	49
16	51	475	343	137	265	1,280	327	1,210	632	101	57	50
17	51	192	315	134	256	909	330	1,480	639	96	57	52
18	51	164	295	134	253	654	316	1,470	641	93	57	55
19	51	956	287	134	240	541	317	1,440	651	91	57	52
20	52	1,800	279	137	226	530	306	1,430	596	90	55	50
21	54	716	267	167	217	475	302	1,450	528	89	53	50
22	54	410	251	146	210	489	315	1,510	459	87	52	50
23	54	295	243	139	206	606	306	1,500	404	86	52	50
24	54	231	223	140	213	500	297	1,270	371	84	52	52
25	53	192	211	138	219	433	294	1,010	346	82	53	51
26	52	174	195	138	200	381	292	952	329	80	58	51
27	52	160	181	207	191	351	291	927	307	77	59	50
28	52	223	178	628	190	347	276	925	281	76	56	50
29	51	339	170	1,350	------	326	268	844	260	78	53	50
30	52	307	164	826	------	308	252	741	241	75	51	51
31	53	------	159	708	------	301	------	641	------	72	51	------
TOTAL	1,574	8,489	11,849	7,329	8,160	11,369	9,477	28,300	15,948	3,558	1,833	1,518
MEAN	50.8	283	382	236	291	367	316	913	532	115	59.1	50.6
MAX	54	1,800	1,170	1,350	562	1,280	424	1,510	701	223	71	55
MIN	48	52	159	128	190	175	252	247	241	72	51	49
AC-FT	3,120	16,840	23,500	14,540	16,190	22,550	18,800	56,130	31,630	7,060	3,640	3,010

CAL YR 1966 TOTAL 90,978 MEAN 249 MAX 1,800 MIN 45 AC-FT 180,500
WTR YR 1967 TOTAL 109,404 MEAN 300 MAX 1,800 MIN 48 AC-FT 217,000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	68	79	97	135	515	434	384	215	78	55	52
2	127	68	82	92	141	482	377	376	219	77	54	50
3	92	68	87	86	153	452	322	401	205	75	53	49
4	74	69	146	86	153	443	306	476	204	75	52	48
5	77	70	131	85	148	496	304	452	437	74	51	47
6	73	72	99	81	154	414	287	373	300	71	51	47
7	71	70	92	80	165	352	282	359	236	69	50	47
8	69	75	87	79	166	309	285	357	203	67	53	46
9	68	78	84	81	163	276	307	374	180	64	52	46
10	68	75	83	80	168	244	365	377	163	64	51	46
11	66	72	82	82	173	226	453	381	157	65	50	47
12	66	71	81	81	180	228	456	362	148	65	49	47
13	66	73	78	104	189	226	380	349	143	66	50	48
14	66	158	77	437	177	254	348	289	139	66	52	51
15	66	97	78	595	188	278	346	261	131	66	52	50
16	65	82	80	340	239	356	319	256	126	61	52	49
17	65	77	82	241	425	276	302	261	120	59	52	49
18	65	76	81	193	323	233	286	275	113	57	52	50
19	65	76	80	172	454	214	278	417	110	57	66	51
20	65	72	79	163	621	205	263	542	108	57	74	50
21	68	72	79	176	918	182	246	428	105	56	66	50
22	72	71	79	192	900	177	232	377	101	56	61	52
23	71	69	81	198	1,030	176	242	326	99	56	58	52
24	69	69	85	200	855	186	249	297	96	56	55	50
25	68	69	96	209	732	273	259	318	93	55	55	49
26	68	68	115	189	690	280	262	291	88	55	55	48
27	68	69	155	169	649	263	309	292	86	55	56	48
28	68	76	164	153	588	273	316	298	83	55	54	48
29	68	78	136	151	539	312	356	289	83	56	53	48
30	68	79	101	156	------	372	405	257	80	55	51	48
31	68	------	101	142	------	407	------	225	------	56	51	------
TOTAL	2,181	2,287	2,960	5,190	11,416	9,380	9,576	10,720	4,571	1,944	1,686	1,463
MEAN	70.4	76.2	95.5	167	394	303	319	346	152	62.7	54.4	48.8
MAX	127	158	164	595	1,030	515	456	542	437	78	74	52
MIN	51	68	77	79	135	176	232	225	80	55	49	46
AC-FT	4,330	4,540	5,870	10,290	22,640	18,610	18,990	21,260	9,070	3,860	3,340	2,900

CAL YR 1967 TOTAL 94,920 MEAN 260 MAX 1,510 MIN 49 AC-FT 188,300
WTR YR 1968 TOTAL 63,374 MEAN 173 MAX 1,030 MIN 46 AC-FT 125,700

11341400 SACRAMENTO RIVER NEAR MOUNT SHASTA, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	68	85	101	207	179	754	123	764	40	53	41
2	49	92	81	75	185	176	731	319	754	94	39	41
3	49	86	80	55	173	170	749	662	921	137	39	653
4	49	76	81	151	168	168	732	652	1,140	136	39	1,170
5	50	75	82	130	168	168	773	519	1,160	135	39	802
6	51	73	79	81	168	171	740	648	1,080	134	39	152
7	50	72	87	124	159	173	722	932	1,080	106	43	152
8	50	70	101	151	155	172	703	942	631	40	43	696
9	51	72	111	131	179	171	690	904	333	40	42	1,020
10	52	70	614	109	283	167	680	915	333	40	42	951
11	76	115	264	151	743	165	680	955	333	40	42	919
12	122	151	162	141	704	167	693	962	329	39	42	631
13	85	97	139	107	650	166	703	965	333	39	43	69
14	72	88	136	113	606	170	693	557	333	39	43	68
15	68	85	318	321	530	179	694	433	333	143	43	551
16	65	88	174	160	470	200	695	934	333	72	43	839
17	63	94	141	120	350	273	707	1,110	329	72	43	498
18	60	114	86	137	294	314	722	1,150	329	72	43	70
19	62	109	26	136	270	318	734	1,050	238	72	43	70
20	64	96	28	331	252	317	749	885	168	72	43	70
21	61	90	75	645	235	318	755	877	166	72	42	70
22	60	89	105	574	218	350	788	941	166	72	43	70
23	61	86	101	464	210	404	809	1,020	95	70	43	70
24	62	90	118	368	204	430	777	1,110	43	68	43	69
25	62	92	116	310	200	442	770	1,050	43	66	43	69
26	63	87	94	539	188	478	759	1,020	43	66	43	69
27	62	85	99	489	182	562	762	947	42	66	42	69
28	61	82	95	402	182	619	772	790	39	66	42	68
29	75	84	112	328	------	680	555	767	39	66	42	68
30	81	86	90	263	------	710	122	834	39	66	42	68
31	71	------	81	228	------	730	------	824	------	66	42	------
TOTAL	1,955	2,662	3,961	7,435	8,333	9,707	21,213	25,797	11,969	2,306	1,313	10,153
MEAN	63.1	88.7	128	240	298	313	707	832	399	74.4	42.4	338
MAX	122	151	614	645	743	730	809	1,150	1,160	143	53	1,170
MIN	48	68	26	55	155	165	122	123	39	39	39	41
AC-FT	3,880	5,280	7,860	14,750	16,530	19,250	42,080	51,170	23,740	4,570	2,600	20,140
AC-FT†					750	3,070	7,760	26,500	23,600	24,400	21,700	8,670
(‡)					+750	+2,320	+4,690	+18,740	-2,900	+800	-2,700	-13,030
MEAN††					311	351	786	1,137	350	87.3	-1.63	119
AC-FT††					17,280	21,570	46,770	69,910	20,840	5,370	-100	7,110

CAL YR 1968 TOTAL 64,524 MEAN 176 MAX 1,030 MIN 26 AC-FT 128,000 MEAN†† AC-FT††
WTR YR 1969 TOTAL 106,804 MEAN 293 MAX 1,170 MIN 26 AC-FT 211,800 MEAN†† 305 AC-FT†† 220,470

† CONTENTS, IN ACRE-FEET, AT END OF MONTH, IN LAKE SISKIYOU. ‡ CHANGE IN CONTENTS, IN ACRE-FEET, IN LAKE SISKIYOU. †† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SISKIYOU.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	34	52	216	723	76	107	203	259	66	48	40
2	72	34	52	197	804	70	107	243	203	66	46	41
3	91	34	52	184	1,030	66	213	315	268	66	43	40
4	75	37	52	176	1,020	188	451	436	304	80	43	47
5	36	43	52	163	501	438	451	501	296	95	41	45
6	36	37	52	163	57	263	451	510	282	94	41	46
7	36	47	52	168	56	140	255	452	282	94	41	41
8	36	57	52	182	56	145	126	452	272	94	41	42
9	36	43	52	336	88	248	126	480	276	92	41	41
10	63	39	56	385	125	514	255	424	276	73	41	41
11	110	38	121	356	324	512	445	356	224	53	41	45
12	110	38	193	405	524	507	273	324	190	53	40	48
13	110	38	157	610	309	380	106	290	187	53	40	45
14	110	37	193	1,350	660	128	106	282	203	53	40	41
15	110	37	126	903	1,040	128	104	307	195	53	40	41
16	112	38	95	921	1,050	128	126	370	133	52	40	41
17	112	37	86	950	1,030	331	243	500	133	58	40	41
18	110	40	86	696	1,010	452	254	550	131	64	40	89
19	110	50	265	696	577	451	251	540	131	64	40	140
20	110	50	370	824	365	448	217	496	135	64	40	140
21	101	50	867	1,720	200	447	204	432	133	65	40	83
22	68	50	1,230	2,980	60	447	212	432	133	65	41	40
23	68	50	808	3,530	59	245	211	468	129	65	41	39
24	68	52	561	2,840	59	115	207	432	127	64	41	39
25	68	52	516	1,570	60	115	205	398	127	64	41	39
26	68	52	444	1,200	59	210	208	406	127	63	40	39
27	68	52	385	1,230	58	446	207	414	127	64	40	39
28	68	52	318	835	72	445	198	394	127	64	40	39
29	68	52	286	637	------	444	188	342	126	63	41	39
30	53	52	250	533	------	443	192	293	93	63	40	40
31	34	------	232	675	------	255	------	296	------	58	40	------
TOTAL	2,389	1,322	8,113	27,631	11,976	9,225	6,699	12,338	5,629	2,085	1,272	1,531
MEAN	77.1	44.1	262	891	428	298	223	398	188	67.3	41.0	51.0
MAX	112	57	1,230	3,530	1,050	514	451	550	304	95	48	140
MIN	34	34	52	163	56	66	104	203	93	52	40	39
AC-FT	4,740	2,620	16,090	54,810	23,750	18,300	13,290	24,470	11,170	4,140	2,520	3,040
AC-FT†	8,670	11,300	26,500	26,500	22,010	23,800	26,300	26,000	25,800	25,800	26,100	25,800
(‡)	0	+2,630	+15,200	0	-4,490	+1,790	+2,500	-300	-200	0	+300	-300
MEAN††	77.1	88.2	509	891	347	327	26.5	393	184	67.3	45.9	46.0
AC-FT††	4,740	5,250	31,290	54,810	19,260	20,090	15,790	24,170	10,970	4,140	2,820	2,740

CAL YR 1969 TOTAL 110,050 MEAN 302 MAX 1,230 MIN 34 AC-FT 218,300 MEAN†† 222 AC-FT†† 160,900
WTR YR 1970 TOTAL 90,210 MEAN 247 MAX 3,530 MIN 34 AC-FT 178,900 MEAN†† 271 AC-FT†† 196,030

† CONTENTS, IN ACRE-FEET, AT END OF MONTH, IN LAKE SISKIYOU. ‡ CHANGE IN CONTENTS, IN ACRE-FEET, IN LAKE SISKIYOU. †† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SISKIYOU.

11342000 SACRAMENTO RIVER AT DELTA, CALIF.

LOCATION.--Lat 40°56'23", long 122°24'58", in NW¼ sec.35, T.36 N., R.5 W., Shasta County, Bureau of Reclamation property, on left bank 0.2 mile downstream from Dog Creek, 0.6 mile southeast of Delta, and 2.8 miles south of Lamoine.

DRAINAGE AREA.--425 sq mi.

PERIOD OF RECORD.--October 1944 to September 1970. Monthly discharge only for some periods, published in WSP 1315-A.

GAGE.--Water-stage recorder. Datum of gage is 1,075.00 ft above mean sea level (levels by Bureau of Reclamation).

AVERAGE DISCHARGE.--26 years, 1,159 cfs (839,700 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (8,000 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Nov. 18, 1965	2200	*11,600	11.48	Feb. 21, 1968	0530	*9,080	10.50	Dec. 21, 1969	0700	*30,000	17.26
Mar. 10, 1966	0100	8,530	10.27					Jan. 14, 1970	0730	13,000	11.98
				Dec. 10, 1968	1300	9,500	10.67	Jan. 23, 1970	1530	26,600	16.18
Nov. 20, 1966	1300	15,900	12.92	Dec. 15, 1968	1200	8,290	10.17	Jan. 27, 1970	0200	15,000	12.64
Dec. 5, 1966	0030	*17,400	13.37	Jan. 20, 1969	2400	12,200	11.68				
Jan. 29, 1967	0630	13,900	12.26	Jan. 26, 1969	0500	8,820	10.39				
Mar. 16, 1967	1230	15,300	12.71	Feb. 11, 1969	1600	*14,200	12.38				

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Sept. 6, 1966	172	1969	Oct. 1-3, 1968	182
1967	Oct. 1, 3, 9-11, 1966	188	1970	Aug. 17-29, 1970	182
1968	Sept.28-30, 1968	178			

Period of record: Maximum discharge, 38,800 cfs Dec. 22, 1964 (gage height, 20.10 ft), from rating curve extended above 19,000 cfs on basis of slope-area measurement at gage heights 19.50 ft in gage well, 20.0 ft, from floodmarks; minimum, 141 cfs Sept. 3-5, 1950.

REMARKS.--Records excellent. Some regulation from Box Canyon Dam near the town of Mount Shasta. Some minor *diversions for irrigation above station. See schematic diagram of Pit and McCloud River basins elsewhere in* this report. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

REVISIONS (WATER YEARS).--WSP 1395: 1951 (M). WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	197	197	954	840	1,140	1,390	4,100	1,750	679	310	209	191
2	197	197	902	798	1,060	1,280	4,090	1,850	646	310	206	180
3	197	200	890	1,020	1,130	1,180	3,700	1,910	624	310	206	180
4	200	226	890	2,620	3,360	1,120	3,380	2,140	591	306	203	178
5	203	222	916	4,330	4,650	1,100	3,340	2,320	560	296	200	175
6	206	215	974	6,780	3,620	1,280	3,500	2,160	550	292	197	172
7	200	266	954	4,260	2,540	1,460	3,560	1,900	570	285	194	175
8	197	603	916	3,680	1,990	3,130	3,400	1,790	565	285	194	178
9	197	306	864	3,030	1,680	7,050	3,310	1,850	545	288	191	175
10	197	260	816	2,310	1,480	7,140	3,340	1,800	521	288	188	175
11	200	260	780	1,850	1,320	4,780	2,880	1,670	503	278	185	178
12	197	551	738	1,580	1,210	3,750	2,520	1,520	485	274	185	180
13	194	1,490	690	1,410	1,130	4,580	2,240	1,490	462	271	182	197
14	200	4,890	657	1,320	1,080	4,630	2,130	1,440	454	271	182	194
15	212	5,340	613	1,420	1,030	4,410	2,310	1,290	449	264	182	191
16	206	1,990	586	1,610	1,000	3,700	2,760	1,220	432	264	180	188
17	203	4,080	560	1,520	994	3,020	2,890	1,180	420	257	180	185
18	206	9,500	540	1,390	987	2,590	2,610	1,160	412	254	182	203
19	209	5,980	521	1,280	1,170	2,340	2,210	1,180	408	246	182	215
20	206	2,820	512	1,180	1,180	2,110	1,980	1,220	404	240	180	206
21	203	1,840	508	1,100	1,160	1,960	1,850	1,240	392	240	180	203
22	200	1,410	494	1,060	1,270	1,850	1,850	1,140	384	229	180	200
23	200	1,780	472	987	1,800	1,790	1,940	994	384	222	180	200
24	200	3,350	512	942	1,990	1,840	2,080	948	372	222	180	197
25	200	2,570	490	896	1,910	2,020	2,250	935	352	218	180	197
26	197	1,940	462	870	1,730	2,280	2,200	928	340	222	180	197
27	194	1,550	490	840	1,550	2,620	1,890	896	332	218	180	194
28	197	1,280	1,910	816	1,460	2,990	1,790	846	324	215	182	194
29	200	1,130	1,640	1,020	------	3,360	1,720	798	316	212	191	188
30	197	1,010	1,240	1,200	------	3,610	1,700	768	310	209	194	188
31	197	------	1,000	1,190	------	3,890	------	738	------	215	203	------
TOTAL	6,209	57,453	24,491	55,149	46,621	90,250	79,520	43,071	13,786	8,011	5,838	5,674
MEAN	200	1,915	790	1,779	1,665	2,911	2,651	1,389	460	258	188	189
MAX	212	9,500	1,910	6,780	4,650	7,140	4,100	2,320	679	310	209	215
MIN	194	197	462	798	987	1,100	1,700	738	310	209	180	172
AC-FT	12,320	114,000	48,580	109,400	92,470	179,000	157,700	85,430	27,340	15,890	11,580	11,250

CAL YR 1965 TOTAL 385,912 MEAN 1,057 MAX 9,500 MIN 194 AC-FT 765,500
WTR YR 1966 TOTAL 436,073 MEAN 1,195 MAX 9,500 MIN 172 AC-FT 865,000

11342000 SACRAMENTO RIVER AT DELTA, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	188	197	2,830	708	5,000	1,020	1,700	1,560	1,960	708	328	254
2	191	200	5,730	684	3,640	1,010	1,650	1,620	1,780	668	324	250
3	188	200	5,070	674	3,030	980	1,690	1,730	1,570	652	320	250
4	191	200	10,400	662	2,810	942	1,740	1,910	1,630	608	316	254
5	191	200	10,500	652	2,810	916	2,090	2,170	1,790	586	316	250
6	194	278	4,680	618	2,660	896	3,670	2,390	1,850	565	313	246
7	194	271	3,120	602	2,480	896	3,310	3,020	1,860	545	313	243
8	194	236	2,340	591	2,280	902	2,780	4,090	1,890	530	310	243
9	188	229	2,010	575	2,130	922	2,650	4,700	1,920	512	306	246
10	188	229	2,120	570	2,130	1,640	3,920	4,000	1,810	494	306	246
11	188	254	1,980	565	2,050	1,650	4,120	2,960	1,790	480	299	250
12	194	376	2,130	560	2,060	1,440	3,250	2,460	1,740	467	296	243
13	191	1,010	2,720	555	2,050	1,320	2,960	2,260	1,630	458	292	240
14	194	2,400	2,860	555	1,890	1,340	2,790	2,380	1,580	444	288	236
15	197	4,770	2,320	560	1,720	1,520	2,550	2,960	1,610	436	285	236
16	200	3,520	1,970	560	1,560	10,600	2,310	3,860	1,630	428	282	236
17	200	1,220	1,710	545	1,470	6,660	2,790	4,440	1,650	449	282	243
18	197	864	1,520	540	1,420	4,210	2,680	4,730	1,620	424	278	268
19	197	3,800	1,400	540	1,340	3,280	2,430	4,480	1,630	408	274	254
20	200	13,000	1,320	714	1,260	4,120	2,260	4,460	1,510	408	274	243
21	200	5,650	1,220	1,150	1,200	3,700	2,130	4,700	1,390	400	271	236
22	203	3,320	1,140	896	1,150	3,360	2,120	4,840	1,210	392	271	232
23	206	2,070	1,080	756	1,130	5,160	2,130	4,650	1,100	384	268	232
24	206	1,490	1,000	798	1,130	3,890	2,070	4,090	1,040	376	268	232
25	203	1,200	954	712	1,180	3,120	2,010	3,340	974	368	271	229
26	200	1,030	902	822	1,090	2,610	1,990	2,970	935	360	282	226
27	200	916	852	1,450	1,040	2,280	1,990	2,880	883	356	302	222
28	200	1,020	822	5,880	1,020	2,140	1,850	2,770	828	352	278	222
29	200	1,510	792	11,000	------	1,920	1,740	2,590	774	360	268	222
30	197	1,340	762	7,390	------	1,840	1,620	2,260	732	348	260	226
31	197	------	738	7,830	------	1,770	------	2,000	------	332	254	------
TOTAL	6,077	53,000	78,992	50,714	54,730	78,054	72,990	99,270	44,316	14,298	8,995	7,210
MEAN	196	1,767	2,548	1,636	1,955	2,518	2,433	3,202	1,477	461	290	240
MAX	206	13,000	10,500	11,000	5,000	10,600	4,120	4,840	1,960	708	328	268
MIN	188	197	738	540	1,020	896	1,620	1,560	732	332	254	222
AC-FT	12,050	105,100	156,700	100,600	108,600	154,800	144,800	196,900	87,900	28,360	17,840	14,300

CAL YR 1966 TOTAL 485,989 MEAN 1,331 MAX 13,000 MIN 172 AC-FT 964,000
WTR YR 1967 TOTAL 568,646 MEAN 1,558 MAX 13,000 MIN 188 AC-FT 1,128,000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	221	236	303	433	585	2,130	1,670	1,110	565	269	212	195
2	459	236	371	403	753	1,960	1,480	1,080	560	260	221	195
3	415	236	433	371	962	1,810	1,350	1,080	550	257	208	190
4	288	239	961	355	968	1,710	1,280	1,140	520	254	200	188
5	288	245	982	347	1,020	1,820	1,230	1,110	890	251	198	188
6	278	242	495	331	1,220	1,630	1,190	968	742	245	195	185
7	267	242	460	323	1,400	1,490	1,150	890	600	239	192	188
8	260	270	391	323	1,390	1,340	1,140	872	540	236	195	185
9	257	278	367	363	1,430	1,230	1,190	884	500	233	200	182
10	254	254	359	371	1,410	1,140	1,310	896	470	227	192	185
11	251	251	363	347	1,390	1,090	1,490	914	452	224	190	185
12	248	248	351	331	1,350	1,240	1,460	884	436	227	188	188
13	248	251	331	470	1,280	1,260	1,260	884	416	227	188	188
14	242	522	307	1,910	1,150	1,540	1,200	797	404	227	200	195
15	242	355	303	3,190	1,170	1,670	1,200	731	392	227	208	195
16	242	292	303	1,970	1,380	2,960	1,150	698	373	224	202	190
17	242	270	307	1,320	3,930	2,430	1,050	698	362	221	198	190
18	242	267	331	1,020	3,340	1,860	1,000	698	352	218	198	190
19	239	264	303	848	3,890	1,560	974	797	345	212	236	190
20	242	254	292	792	5,200	1,420	938	1,280	338	210	310	192
21	245	251	292	896	7,710	1,330	896	956	334	210	292	192
22	254	248	288	1,020	6,580	1,280	860	878	320	208	245	192
23	251	245	299	986	7,360	1,240	860	780	314	205	230	192
24	248	242	335	932	5,620	1,210	848	731	306	202	218	190
25	245	242	415	926	4,080	1,420	836	824	300	202	212	185
26	242	239	550	842	3,300	1,390	878	731	289	200	218	185
27	242	245	742	758	2,900	1,280	962	704	282	198	215	182
28	242	257	775	714	2,600	1,280	974	692	275	198	210	178
29	239	339	676	720	2,300	1,400	1,020	676	272	198	205	178
30	236	343	535	670	------	1,510	1,120	632	272	198	198	178
31	239	------	470	616	------	1,550	------	590	------	198	195	------
TOTAL	8,108	8,103	13,690	24,898	77,668	48,180	33,966	26,605	12,771	6,905	6,569	5,636
MEAN	262	270	442	803	2,678	1,554	1,132	858	426	223	212	188
MAX	459	522	982	3,190	7,710	2,960	1,670	1,280	890	269	310	195
MIN	221	236	288	323	585	1,090	836	590	272	198	188	178
AC-FT	16,080	16,070	27,150	49,390	154,100	95,570	67,370	52,770	25,330	13,700	13,030	11,180

CAL YR 1967 TOTAL 460,478 MEAN 1,262 MAX 11,000 MIN 221 AC-FT 913,400
WTR YR 1968 TOTAL 273,099 MEAN 746 MAX 7,710 MIN 178 AC-FT 541,700

11342000 SACRAMENTO RIVER AT DELTA, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	182	251	338	530	1,560	1,650	4,360	2,210	1,920	392	275	205
2	182	422	324	550	1,380	1,570	4,060	2,140	1,830	388	251	202
3	182	388	310	625	1,280	1,460	3,770	2,490	1,800	460	248	313
4	185	324	303	907	1,240	1,380	3,340	2,370	2,270	456	245	1,230
5	185	300	303	1,260	1,250	1,380	5,150	2,390	2,140	448	242	1,200
6	188	282	300	1,380	1,290	1,410	4,370	2,700	2,060	444	242	359
7	185	272	303	1,370	1,170	1,390	3,740	3,600	1,980	436	242	334
8	185	263	465	1,240	1,320	1,350	3,440	3,770	1,670	359	242	526
9	185	260	520	1,090	2,990	1,290	3,270	3,980	1,120	338	242	1,170
10	188	254	5,010	956	3,600	1,220	3,170	4,140	1,090	331	239	1,160
11	311	400	2,530	1,010	11,300	1,170	3,270	4,360	1,070	324	233	1,130
12	840	702	1,250	2,160	8,110	1,160	3,580	4,140	1,030	320	233	1,090
13	404	392	935	5,480	4,930	1,150	3,500	3,950	1,000	317	233	311
14	310	348	942	2,900	3,820	1,170	3,170	3,310	991	314	230	242
15	282	352	5,060	2,110	3,530	1,260	2,990	2,450	956	310	230	425
16	257	348	2,430	1,580	3,240	1,440	3,000	3,170	914	423	227	1,060
17	242	362	1,410	1,290	2,820	1,890	3,190	3,530	888	328	227	992
18	233	480	1,070	1,190	2,720	2,270	3,280	3,580	876	324	227	275
19	227	485	774	1,860	2,550	2,200	3,200	3,190	882	320	227	266
20	227	408	645	6,230	2,300	2,100	3,310	2,720	684	317	224	257
21	227	362	595	8,910	2,070	2,030	3,550	2,660	645	310	221	257
22	221	342	625	4,990	1,890	2,220	3,870	2,760	620	306	218	251
23	218	328	660	3,480	1,940	2,540	4,140	2,870	595	306	215	248
24	221	348	660	2,670	1,840	2,540	3,420	2,960	480	306	215	245
25	218	366	756	2,490	1,790	2,540	2,990	2,810	460	296	215	242
26	218	334	738	7,000	1,620	2,700	2,790	2,700	456	292	212	239
27	215	320	655	4,090	1,510	3,190	2,780	2,520	444	286	210	236
28	215	306	660	3,020	1,720	3,770	2,980	2,100	432	282	210	236
29	289	306	610	2,400	------	4,090	3,070	2,030	420	278	210	236
30	314	359	580	2,030	------	4,270	2,270	2,140	408	278	210	239
31	266	------	540	1,730	------	4,570	------	2,080	------	278	208	------
TOTAL	7,802	10,664	32,301	78,528	76,780	64,370	103,020	91,820	32,131	10,567	7,103	15,176
MEAN	252	355	1,042	2,533	2,742	2,076	3,434	2,962	1,071	341	229	506
MAX	840	702	5,060	8,910	11,300	4,570	5,150	4,360	2,270	460	275	1,230
MIN	182	251	300	530	1,170	1,150	2,270	2,030	408	278	208	202
AC-FT	15,480	21,150	64,070	155,800	152,300	127,700	204,300	182,100	63,730	20,960	14,090	30,100

CAL YR 1968 TOTAL 293,965 MEAN 803 MAX 7,710 MIN 178 AC-FT 583,100
WTR YR 1969 TOTAL 530,262 MEAN 1,453 MAX 11,300 MIN 182 AC-FT 1,052,000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	227	202	219	1,080	3,160	2,530	1,050	750	586	292	208	190
2	225	199	219	997	2,860	1,940	1,030	822	585	282	202	190
3	227	199	219	938	2,990	1,680	1,000	956	595	278	198	190
4	260	219	219	883	2,820	1,720	1,310	1,140	615	272	198	192
5	204	542	217	829	2,400	1,980	1,330	1,260	625	292	195	198
6	199	301	217	794	1,620	1,820	1,320	1,220	610	292	195	200
7	199	412	217	778	1,510	1,890	1,220	1,130	595	286	195	198
8	209	750	241	889	1,420	2,150	956	1,110	605	282	192	190
9	212	373	235	2,790	1,390	2,070	949	1,140	678	282	192	190
10	207	297	355	4,080	1,400	2,310	984	1,060	645	278	190	190
11	249	269	1,520	3,250	1,470	2,300	1,270	977	580	245	190	188
12	263	263	4,320	3,550	2,380	2,290	1,170	894	495	236	188	190
13	263	257	3,800	6,360	2,460	2,220	928	828	495	233	188	192
14	275	249	3,300	11,000	2,140	2,090	870	792	495	227	185	192
15	314	243	2,020	6,760	2,640	1,980	840	828	530	227	185	192
16	385	241	1,250	7,940	3,140	1,880	810	935	432	227	185	192
17	330	232	1,060	7,040	3,500	1,870	870	1,120	456	227	182	192
18	291	230	1,250	5,290	3,030	1,980	921	1,220	416	233	182	192
19	282	230	4,320	5,700	2,480	1,890	900	1,180	396	233	182	269
20	275	230	6,190	6,360	1,960	1,810	876	1,110	388	230	182	289
21	272	230	18,200	11,400	1,760	1,750	816	1,020	380	230	182	286
22	243	227	6,000	16,900	1,390	1,710	822	984	380	233	182	195
23	227	227	4,850	22,800	1,310	1,570	816	1,000	366	230	182	190
24	230	227	3,560	17,600	1,240	1,310	798	991	362	230	182	188
25	230	225	3,010	9,680	1,180	1,300	786	914	362	230	182	185
26	227	222	2,480	8,900	1,130	1,270	786	894	362	230	182	188
27	227	222	2,050	11,600	1,110	1,550	786	840	362	227	182	188
28	227	222	1,690	6,890	2,150	1,520	756	792	370	224	182	190
29	225	222	1,480	5,060	------	1,490	732	738	366	224	182	190
30	225	222	1,300	4,010	------	1,450	726	690	348	224	185	188
31	207	------	1,170	3,470	------	1,350	------	635	------	221	190	------
TOTAL	7,636	8,184	77,178	195,618	58,040	56,670	28,428	29,970	14,480	7,657	5,827	6,004
MEAN	246	273	2,490	6,310	2,073	1,828	948	967	483	247	188	200
MAX	385	750	18,200	22,800	3,500	2,530	1,330	1,260	678	292	208	289
MIN	199	199	217	778	1,110	1,270	726	635	348	221	182	185
AC-FT	15,150	16,230	153,100	388,000	115,100	112,400	56,390	59,450	28,720	15,190	11,560	11,910

CAL YR 1969 TOTAL 572,493 MEAN 1,568 MAX 18,200 MIN 199 AC-FT 1,136,000
WTR YR 1970 TOTAL 495,692 MEAN 1,358 MAX 22,800 MIN 182 AC-FT 983,200

11343500 NORTH FORK PIT RIVER NEAR ALTURAS, CALIF.

LOCATION.--Lat 41°30'06", long 120°29'22", in NE¼ sec.8, T.42 N., R.13 E., Modoc County, on right bank 1.5 miles downstream from Parker Creek, 3 miles northeast of Alturas, and 4 miles upstream from mouth.

DRAINAGE AREA.--203 sq mi, excluding Goose Lake basin.

PERIOD OF RECORD.--May 1929 to November 1932, October 1957 to September 1967 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 4,391 ft above mean sea level.

AVERAGE DISCHARGE.--13 years, 48.3 cfs (34,970 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-67 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 9, 1966	258	2.33	Sept. 1, 1966	.10
1967	Jan. 29, 1967	1,990	9.10	Many days	.20

Period of record: Maximum discharge, 2,530 cfs Oct. 14, 1962 (gage height, 11.07 ft); no flow Apr. 29, 30, 1931, June 6, 1959.

REMARKS.--Records good. Flow regulated by many small reservoirs (total capacity, about 2,480 acre-ft). Diversions above station for irrigation of about 7,100 acres. See schematic diagram for Pit and McCloud River basins elsewhere in this report.

REVISIONS (WATER YEARS).--WSP 1635: 1958. WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	8.8	11	8.0	9.6	40	93	1.0	1.3	.80	.40	.10
2	1.1	9.6	12	8.0	8.8	24	93	1.1	6.3	.80	.40	.20
3	1.3	9.6	13	8.0	9.6	16	70	.80	5.3	.80	.30	.20
4	1.3	11	14	9.6	12	13	60	.70	1.7	1.0	.20	.20
5	1.3	21	14	13	21	18	57	.50	1.0	1.1	.20	.20
6	1.1	13	12	38	23	86	59	.30	4.0	.70	.30	.20
7	1.1	13	9.6	50	16	137	54	.40	3.3	.70	.20	.20
8	1.1	13	9.6	59	11	117	40	.40	2.4	.80	.40	.20
9	1.1	12	15	54	14	139	50	.40	2.4	.80	.60	.20
10	1.1	9.6	12	24	12	173	76	.40	1.9	.80	.70	.20
11	1.1	9.6	9.6	18	8.8	117	79	.70	1.1	.70	.80	.20
12	1.1	19	9.6	14	9.6	119	88	1.9	1.3	1.0	.80	.20
13	1.1	23	8.8	15	6.8	165	70	3.0	1.3	1.0	.80	.20
14	1.3	22	6.8	13	7.4	104	64	2.4	1.1	1.0	.80	.20
15	1.7	19	6.3	16	7.4	62	65	2.4	1.0	.70	.80	.20
16	2.7	17	6.3	18	7.4	45	69	4.8	1.0	.20	.80	.20
17	15	17	5.8	14	8.0	38	67	5.3	.80	.20	.80	.20
18	6.3	23	5.8	12	8.0	67	74	3.3	.80	.30	.80	.20
19	5.3	21	5.8	8.8	8.8	69	40	2.7	.70	.30	.80	.20
20	4.8	18	5.3	7.4	14	48	29	3.3	.60	.30	.70	.20
21	4.8	17	5.3	8.0	18	40	24	3.3	.40	.30	.70	.20
22	4.4	16	5.3	8.0	36	29	19	3.3	.40	.30	.80	.20
23	4.4	16	5.3	8.0	84	27	22	3.3	.50	.40	1.0	.20
24	4.4	16	5.8	8.8	74	32	3.6	3.3	.60	.40	.30	.20
25	4.4	16	6.3	8.0	40	40	1.3	4.0	.50	.50	.20	.20
26	4.8	15	7.4	8.8	29	52	1.9	3.3	.60	.50	.20	.30
27	4.8	14	8.0	8.0	28	76	3.0	3.6	.70	.50	.20	.30
28	4.4	11	8.0	8.0	42	88	4.0	3.0	.70	.50	.20	.40
29	4.4	9.6	8.0	8.0	------	92	1.5	2.4	.70	.70	.20	.40
30	4.8	12	8.8	8.8	------	97	1.1	3.6	1.0	.70	.20	.40
31	12	------	8.8	8.8	------	102	------	1.7	------	.40	.20	------
TOTAL	109.6	451.8	269.3	499.0	574.2	2,272	1,378.4	70.60	45.40	19.20	15.80	6.70
MEAN	3.54	15.1	8.69	16.1	20.5	73.3	45.9	2.28	1.51	.62	.51	.22
MAX	15	23	15	59	84	173	93	5.3	6.3	1.1	1.0	.40
MIN	1.1	8.8	5.3	7.4	6.8	13	1.1	.30	.40	.20	.20	.10
AC-FT	217	896	534	990	1,140	4,510	2,730	140	90	38	31	13

CAL YR 1965 TOTAL 28,867.70 MEAN 79.1 MAX 952 MIN 1.0 AC-FT 57,260
WTR YR 1966 TOTAL 5,712.00 MEAN 15.6 MAX 173 MIN .10 AC-FT 11,330

11343500 NORTH FORK PIT RIVER NEAR ALTURAS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	.60	34	12	336	34	38	108	235	22	.40	.90
2	.50	.60	86	8.8	198	32	38	104	208	28	.20	.80
3	.50	.60	209	11	121	27	38	95	164	6.6	.30	.60
4	.60	.60	54	11	92	23	33	90	138	7.8	2.4	.60
5	.60	.60	79	13	83	23	40	90	157	29	2.4	.80
6	.60	15	86	12	62	25	50	106	232	2.1	1.2	.80
7	.50	14	45	9.6	55	28	72	190	195	.60	.90	.80
8	.50	3.0	25	9.6	54	28	133	300	164	.60	.80	.80
9	.60	2.1	21	9.6	55	32	86	410	153	.50	.60	.60
10	.70	1.9	22	11	62	32	72	347	138	.30	.60	.60
11	.70	3.6	30	11	60	29	67	280	122	.30	.60	.60
12	.70	4.0	69	13	69	33	60	262	115	.30	.60	.60
13	.70	3.3	57	16	83	32	57	218	104	.20	.60	.80
14	.60	3.3	57	18	57	33	67	225	80	.20	.50	.90
15	.80	3.3	30	18	45	27	111	275	48	.20	.50	1.2
16	1.3	4.8	23	17	40	144	101	344	41	.20	.40	1.8
17	1.3	6.8	19	12	71	121	74	389	38	.20	.40	1.0
18	1.0	7.4	18	9.6	123	90	74	417	15	.20	.20	1.0
19	.80	7.4	17	11	65	81	79	404	20	.20	.20	.90
20	.80	53	17	13	39	64	76	353	25	.20	.20	.80
21	.60	25	15	14	32	57	65	341	23	.20	.20	.80
22	.60	16	11	14	30	57	69	353	24	.20	.20	.80
23	.80	11	13	14	30	55	84	220	41	.20	.30	.60
24	1.0	8.0	12	16	33	52	83	260	30	.30	.40	.80
25	1.0	18	12	15	32	50	125	232	15	.20	.50	.80
26	.80	21	9.6	14	30	47	133	190	17	.30	.50	.80
27	.70	27	9.6	18	30	40	147	159	15	6.1	.50	.80
28	.70	51	11	228	33	38	252	155	15	17	.90	.80
29	.60	104	11	1,270	------	36	200	157	29	20	1.2	.30
30	.60	40	9.6	656	------	42	125	140	37	2.7	1.0	.30
31	.60	------	8.0	530	------	39	------	183	------	.40	1.0	------
TOTAL	22.30	456.90	1,119.8	3,035.2	2,020	1,451	2,649	7,397	2,638	147.30	20.70	23.70
MEAN	.72	15.2	36.1	97.9	72.1	46.8	88.3	239	87.9	4.75	.67	.79
MAX	1.3	104	209	1,270	336	144	252	417	235	29	2.4	1.8
MIN	.50	.60	8.0	8.8	30	23	33	90	15	.20	.20	.30
AC-FT	44	906	2,220	6,020	4,010	2,880	5,250	14,670	5,230	292	41	47

CAL YR 1966 TOTAL 6,480.30 MEAN 17.8 MAX 209 MIN .10 AC-FT 12,850
WTR YR 1967 TOTAL 20,980.90 MEAN 57.5 MAX 1,270 MIN .20 AC-FT 41,620

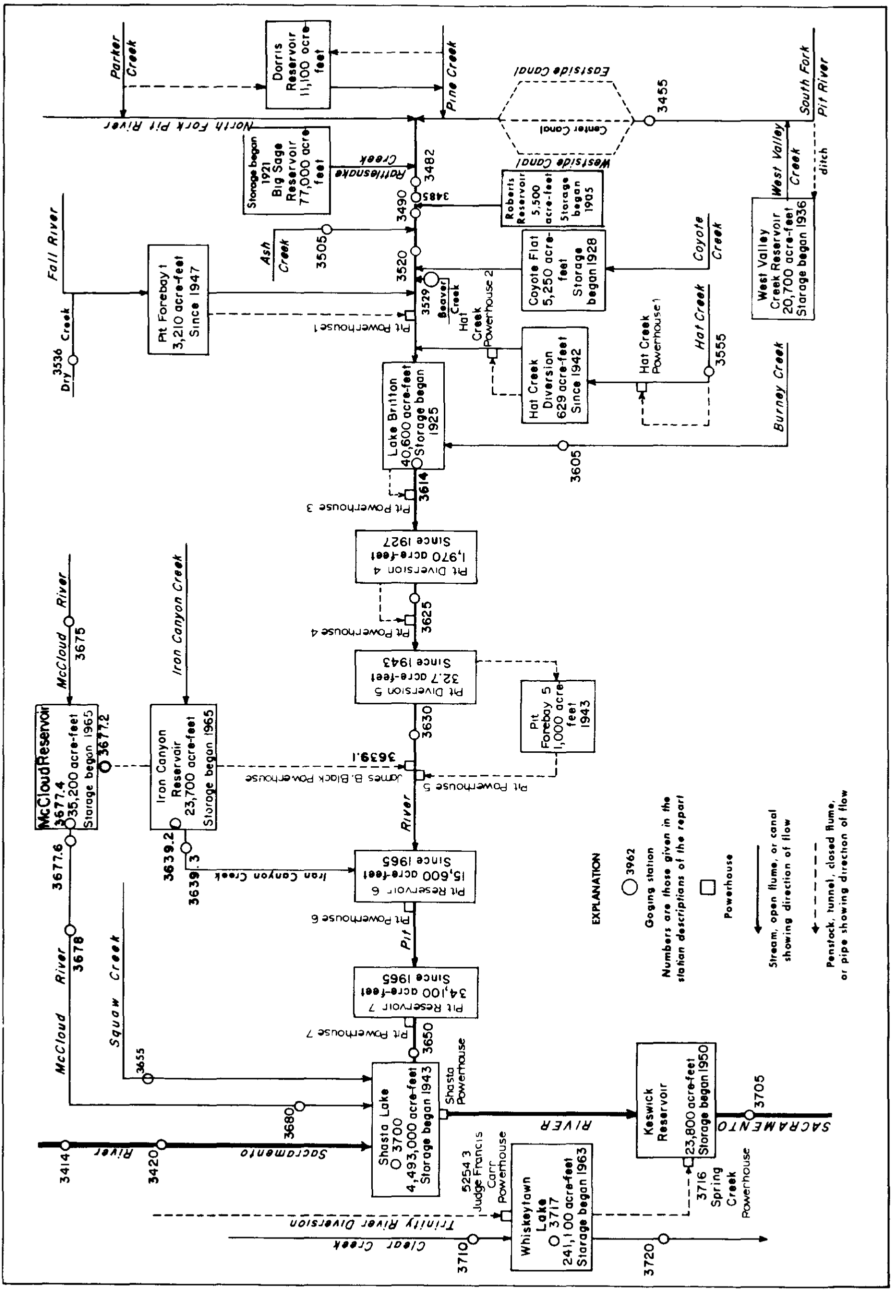

Parker Creek
Dorris Reservoir 11,100 acre-feet
Pine Creek
North Fork Pit River
Eastside Canal
Center Canal
Westside Canal
3455
South Fork Pit River
Storage began 1921 Big Sage Reservoir 77,000 acre-feet
Rattlesnake Creek
3482
3485
3490
Roberts Reservoir 5,500 acre-feet Storage began 1905
West Valley Creek
ditch
West Valley Creek Reservoir 20,700 acre-feet Storage began 1936
Fall River
Ash Creek
3505
3520
Coyote Flat 5,250 acre-feet Storage began 1928
Coyote Creek
Dry Creek
3536
Pit Forebay 1 3,210 acre-feet Since 1947
Pit Powerhouse 1
3529
Beaver Creek
Hat Creek Powerhouse 2
Hat Creek Diversion 629 acre-feet Since 1942
Hat Creek Powerhouse 1
Hat Creek
3555
Lake Britton 40,600 acre-feet Storage began 1925
Burney Creek
3605
3614
Pit Powerhouse 3
Pit Diversion 4 1,970 acre-feet Since 1927
3625
Pit Powerhouse 4
Pit Diversion 5 32.7 acre-feet Since 1943
Pit Forebay 5 1,000 acre-feet 1943
3630
McCloud River
3675
Iron Canyon Creek
McCloud Reservoir 3677.4 35,200 acre-feet Storage began 1965
3677.2
Iron Canyon Reservoir 23,700 acre-feet Storage began 1965
3639.1
James B. Black Powerhouse
Pit Powerhouse 5
3639.2
3639.3
3677.6
Iron Canyon Creek
Pit Reservoir 6 15,600 acre-feet Since 1965
Pit River
Pit Powerhouse 6
EXPLANATION
3962
Gaging station
Numbers are those given in the station descriptions of the report
Powerhouse
Stream, open flume, or canal showing direction of flow
Penstock, tunnel, closed flume, or pipe showing direction of flow
McCloud River
3678
Squaw Creek
Pit Reservoir 7 34,100 acre-feet Since 1965
Pit Powerhouse 7
3650
3655
Shasta Powerhouse
Shasta Lake 3700 4,493,000 acre-feet Storage began 1943
3680
Keswick Reservoir 23,800 acre-feet Storage began 1950
3705
Sacramento River
3414
3420
5254.3 Judge Francis Carr Powerhouse
3716 Spring Creek Powerhouse
Trinity River Diversion
Clear Creek
3710
Whiskeytown Lake 3717 241,100 acre-feet Storage began 1963
3720

FIGURE 2.--Schematic diagram showing diversions and storage in Pit and McCloud River basins.

11345500 SOUTH FORK PIT RIVER NEAR LIKELY, CALIF.

LOCATION.--Lat 41°13'51", long 120°26'10", in NE¼SE¼ sec.11, T.39 N., R.13 E., Modoc County, on left bank 400 ft (revised) downstream from highway bridge, 1.4 miles downstream from West Valley Creek, and 3.5 miles east of Likely.

DRAINAGE AREA.--247 sq mi.

PERIOD OF RECORD.--October 1928 to September 1970. Monthly discharge only for some periods, published in WSP 1315-A.

GAGE.--Water-stage recorder. Datum of gage is 4,508 ft above mean sea level. Prior to Oct. 1, 1931, at site 1,000 ft downstream at different datum.

AVERAGE DISCHARGE.--42 years, 74.3 cfs (53,830 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	May 10, 1966	204	3.28	Mar. 1, 1966	2.5
1967	June 6, 1967	492	4.26	Nov. 19, 1966	2.4
1968	Aug. 19, 1968	206	3.29	Mar. 24, 1968	9.0
1969	May 12, 1969	740	4.79	Mar. 11, 12, 1969	3.5
1970	May 23, 1970	344	3.83	Feb. 27, 1970	11.0

Period of record: Maximum discharge, 1,520 cfs Apr. 27, 1932 (gage height, 5.55 ft); minimum, 0.2 cfs Feb. 3, 1941.

REMARKS.--Records excellent except those for winter periods, which are fair. Since May 1937, flow regulated by West Valley Creek Reservoir (usable capacity, 21,700 acre-ft). Diversions for irrigation of about 3,800 acres above station. See schematic diagram of Pit and McCloud River basins elsewhere in this report. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

REVISIONS (WATER YEARS).--WSP 1931: 1932, 1938(M), 1952(M), drainage area. Revised figures of monthly discharge for the water year 1960, superseding those published in WSP 1735, are given herewith:

Month	Cfs-days	Mean	Maximum	Minimum	Runoff in acre-feet
September 1960...	1,484	49.5	74	34	2,940
WTR YR 1960...	-	50.3	269	2.2	36,490

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	29	27	25	14	2.5	86	122	108	55	176	12
2	34	29	28	26	19	4.5	99	117	92	56	129	9.7
3	34	29	29	29	30	12	92	118	90	57	103	9.3
4	32	29	30	36	30	21	96	120	85	44	96	9.3
5	34	31	32	38	30	35	114	125	77	30	92	9.7
6	34	30	33	54	33	65	124	129	86	28	86	9.3
7	33	29	32	56	32	80	129	132	114	27	87	10
8	31	30	34	52	37	59	125	159	125	27	81	10
9	30	31	35	46	32	59	117	189	124	40	71	9.7
10	30	29	36	39	25	69	117	198	118	61	61	9.3
11	30	34	34	31	22	57	114	191	112	60	49	9.0
12	30	53	34	25	20	59	93	172	109	59	41	9.7
13	32	37	34	24	18	74	76	114	108	76	36	10
14	34	46	30	28	17	59	81	141	104	109	29	16
15	41	41	25	34	16	49	92	161	100	127	24	16
16	37	37	20	30	17	42	100	155	97	125	21	14
17	38	41	18	25	18	34	103	125	100	125	18	15
18	38	70	17	22	20	47	94	61	97	124	16	16
19	39	48	16	20	22	47	78	49	96	124	14	19
20	35	42	16	17	26	37	72	48	93	118	13	17
21	33	40	16	13	31	55	71	49	92	109	12	17
22	32	37	15	10	38	92	63	50	60	104	10	12
23	32	40	15	9.0	52	90	48	50	41	102	8.3	10
24	31	41	14	9.0	24	93	52	48	41	99	6.9	10
25	31	39	20	12	11	94	77	43	41	125	6.1	10
26	30	37	25	10	6.0	97	118	40	40	168	6.1	11
27	30	33	28	9.0	4.0	99	129	41	50	193	9.3	11
28	30	28	18	10	3.0	94	127	44	57	187	8.3	10
29	30	25	12	11	------	74	125	44	55	185	7.6	12
30	29	28	19	10	------	77	124	63	54	181	8.3	12
31	29	------	24	11	------	80	------	93	------	179	12	------
TOTAL	1,018	1,093	766	771.0	647.0	1,857.0	2,936	3,191	2,566	3,104	1,337.9	355.0
MEAN	32.8	36.4	24.7	24.9	23.1	59.9	97.9	103	85.5	100	43.2	11.8
MAX	41	70	36	56	52	99	129	198	125	193	176	19
MIN	29	25	12	9.0	3.0	2.5	48	40	40	27	6.1	9.0
AC-FT	2,020	2,170	1,520	1,530	1,280	3,680	5,820	6,330	5,090	6,160	2,650	704

CAL YR 1965 TOTAL 42,838.0 MEAN 117 MAX 534 MIN 12 AC-FT 84,970
WTR YR 1966 TOTAL 19,641.9 MEAN 53.8 MAX 198 MIN 2.5 AC-FT 38,960

11345500 SOUTH FORK PIT RIVER NEAR LIKELY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	16	25	20	12	4.9	5.0	14	414	135	92	182
2	16	17	22	24	10	3.8	5.2	8.3	375	125	88	182
3	16	17	23	25	9.0	3.1	5.4	4.9	333	112	106	180
4	16	17	20	29	8.5	3.0	5.6	19	345	95	114	180
5	16	17	16	30	8.0	3.0	5.2	38	387	88	109	131
6	16	19	13	29	7.5	4.5	3.3	37	478	79	110	44
7	17	22	12	28	7.0	8.0	9.3	48	483	77	109	16
8	20	20	9.7	27	7.0	13	45	73	478	76	107	35
9	24	18	9.3	26	11	16	12	112	478	72	106	43
10	27	23	10	26	13	16	3.8	115	474	70	122	46
11	26	32	12	27	15	13	16	85	457	65	144	43
12	26	32	22	30	16	10	24	90	441	61	144	62
13	26	30	24	32	16	11	23	64	418	50	142	76
14	24	30	20	34	12	12	19	56	400	43	142	76
15	22	29	7.3	32	11	16	24	71	397	68	141	76
16	17	27	5.6	29	11	43	20	109	378	95	141	77
17	17	5.4	5.2	25	12	41	17	154	357	92	141	81
18	19	2.8	3.8	21	26	20	12	200	339	89	141	62
19	19	2.4	3.7	22	22	12	11	250	319	81	142	42
20	18	17	3.3	23	12	8.3	19	289	302	73	142	42
21	18	6.4	3.2	17	10	5.9	14	308	281	70	117	41
22	19	2.9	3.1	11	8.3	3.8	16	322	269	72	99	40
23	20	2.8	3.0	9.0	8.3	3.1	20	357	248	72	101	40
24	19	2.7	2.9	7.0	8.0	8.6	17	408	232	67	92	39
25	18	4.5	2.8	10	6.9	7.6	34	449	208	59	115	39
26	18	8.0	2.8	11	6.4	8.3	24	478	190	59	152	39
27	17	13	2.8	12	6.4	7.6	14	474	178	59	158	40
28	17	19	2.8	40	5.9	8.0	37	474	166	65	156	40
29	17	36	3.0	137	------	7.3	34	453	158	69	170	39
30	17	29	4.0	52	------	7.0	27	418	148	68	184	42
31	17	------	10	29	------	6.0	------	404	------	80	182	------
TOTAL	591	517.9	307.3	874.0	306.2	334.8	521.8	6,382.2	10,131	2,386	4,009	2,075
MEAN	19.1	17.3	9.91	28.2	10.9	10.8	17.4	206	338	77.0	129	69.2
MAX	27	36	25	137	26	43	45	478	483	135	184	182
MIN	12	2.4	2.8	7.0	5.9	3.0	3.3	4.9	148	43	88	16
AC-FT	1,170	1,030	610	1,730	607	664	1,030	12,660	20,090	4,730	7,950	4,120

CAL YR 1966 TOTAL 18,181.1 MEAN 49.8 MAX 198 MIN 2.4 AC-FT 36,060
WTR YR 1967 TOTAL 28,436.2 MEAN 77.9 MAX 483 MIN 2.4 AC-FT 56,400

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	25	27	25	27	57	30	122	69	87	129	34
2	47	25	26	23	29	37	34	126	93	85	129	34
3	54	26	28	21	34	20	29	130	99	84	129	34
4	51	27	29	22	36	18	24	130	118	83	127	31
5	52	27	29	23	39	18	23	134	154	81	124	34
6	53	27	26	20	48	16	45	124	137	85	121	34
7	35	27	32	26	55	15	63	122	96	87	121	36
8	26	26	25	30	53	14	66	119	109	83	119	34
9	25	26	23	36	60	15	66	116	96	79	119	32
10	24	27	23	37	65	36	82	110	88	79	118	37
11	22	26	22	30	62	36	110	113	85	78	115	70
12	17	26	21	28	58	20	139	121	82	75	115	69
13	16	26	20	32	53	12	126	116	82	73	116	66
14	20	26	21	38	47	12	126	84	77	75	126	66
15	24	27	18	44	47	11	139	69	67	75	127	63
16	23	27	19	40	44	10	132	56	72	72	130	63
17	22	26	20	37	53	11	116	64	103	73	137	62
18	22	27	23	34	64	15	110	88	118	75	132	62
19	23	35	24	32	64	12	115	82	118	73	139	64
20	22	30	25	32	127	14	108	102	113	72	136	66
21	23	29	26	29	103	13	105	115	110	90	76	70
22	27	27	27	28	129	13	99	137	139	134	79	67
23	26	27	29	27	148	9.9	106	121	166	130	61	69
24	25	27	29	26	137	9.0	106	87	166	130	50	70
25	25	26	29	24	96	12	101	61	124	132	47	70
26	25	24	28	23	78	12	97	53	88	132	46	69
27	26	24	29	22	71	10	97	66	84	129	43	67
28	26	27	29	21	63	10	93	72	87	127	42	65
29	26	27	26	21	58	10	106	75	88	127	42	64
30	26	29	26	23	------	14	113	75	88	148	37	64
31	25	------	30	25	------	17	------	62	------	150	35	------
TOTAL	903	806	789	879	1,948	528.9	2,706	3,052	3,116	3,003	3,067	1,666
MEAN	29.1	26.9	25.5	28.4	67.2	17.1	90.2	98.5	104	96.9	98.9	55.5
MAX	54	35	32	44	148	57	139	137	166	150	139	70
MIN	16	24	18	20	27	9.0	23	53	67	72	35	31
AC-FT	1,790	1,600	1,560	1,740	3,860	1,050	5,370	6,050	6,180	5,960	6,080	3,300

CAL YR 1967 TOTAL 29,518.0 MEAN 80.9 MAX 483 MIN 3.0 AC-FT 58,550
WTR YR 1968 TOTAL 22,463.9 MEAN 61.4 MAX 166 MIN 9.0 AC-FT 44,560

11345500 SOUTH FORK PIT RIVER NEAR LIKELY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	15	10	16	45	16	103	369	248	83	139	164
2	62	16	10	17	39	14	98	354	232	79	145	142
3	62	23	10	25	33	12	87	357	219	67	161	116
4	62	25	11	37	27	10	78	348	219	75	150	103
5	61	20	13	32	20	8.6	90	351	219	77	111	93
6	61	17	14	27	18	7.0	96	369	217	83	92	93
7	66	18	17	24	18	5.8	103	408	202	73	108	93
8	66	18	18	30	18	4.4	90	478	198	70	137	92
9	65	30	25	29	19	3.8	81	565	237	70	139	93
10	66	24	48	28	37	3.6	77	628	223	73	132	92
11	69	7.4	28	27	58	3.5	79	664	241	63	124	89
12	43	15	26	25	61	3.5	88	719	212	53	118	89
13	28	12	23	52	41	3.7	90	698	196	47	126	92
14	27	13	20	49	34	5.0	94	691	194	49	137	92
15	27	13	22	34	33	12	88	664	184	50	162	90
16	25	14	20	25	32	19	88	616	174	42	184	90
17	24	20	18	21	28	25	110	565	168	34	184	90
18	25	49	18	26	29	30	163	530	164	52	180	92
19	25	55	17	34	29	35	184	515	184	70	176	94
20	24	36	16	190	23	41	223	483	186	70	176	96
21	25	27	15	184	22	43	269	449	176	73	174	94
22	27	33	14	97	22	67	322	422	152	72	172	90
23	25	40	13	73	19	76	369	397	145	70	170	75
24	25	32	12	71	18	62	375	381	154	83	170	52
25	27	24	14	77	17	65	357	366	136	98	170	53
26	25	13	20	138	17	78	345	351	136	134	168	52
27	24	11	20	67	16	87	339	324	124	134	170	50
28	21	10	19	66	15	94	339	299	106	134	170	47
29	13	10	18	61	------	99	348	274	94	130	170	46
30	16	10	17	56	------	102	360	266	90	130	168	46
31	15	------	16	50	------	106	------	257	------	127	166	------
TOTAL	1,194	650.4	562	1,688	788	1,141.9	5,533	14,158	5,430	2,465	4,749	2,600
MEAN	38.5	21.7	18.1	54.5	28.1	36.8	184	457	181	79.5	153	86.7
MAX	69	55	48	190	61	106	375	719	248	134	184	164
MIN	13	7.4	10	16	15	3.5	77	257	90	34	92	46
AC-FT	2,370	1,290	1,110	3,350	1,560	2,260	10,970	28,080	10,770	4,890	9,420	5,160

CAL YR 1968 TOTAL 22,372.3 MEAN 61.1 MAX 166 MIN 7.4 AC-FT 44,380
WTR YR 1969 TOTAL 40,959.3 MEAN 112 MAX 719 MIN 3.5 AC-FT 81,240

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	28	28	13	22	13	83	138	234	114	105	169
2	38	27	28	14	22	14	84	130	213	100	133	169
3	38	27	25	15	23	13	82	140	203	90	152	149
4	38	27	21	15	33	12	82	169	205	86	167	133
5	40	37	28	13	39	12	84	203	195	83	165	135
6	43	34	25	16	50	15	101	228	201	74	182	133
7	46	20	22	22	38	16	106	236	205	62	199	133
8	54	20	20	18	30	63	109	253	189	52	199	121
9	66	20	19	20	28	33	117	296	189	45	199	111
10	69	22	20	30	33	47	129	288	228	43	197	100
11	61	22	20	38	23	31	125	269	221	39	195	94
12	52	24	31	37	28	28	116	240	189	38	195	89
13	27	25	33	46	30	36	119	234	217	41	193	89
14	28	25	25	61	25	36	122	230	242	99	191	79
15	32	23	24	46	25	26	130	236	223	146	181	61
16	61	28	19	101	31	25	129	258	193	141	155	57
17	67	22	15	124	20	35	119	293	180	140	155	53
18	44	20	16	62	19	43	108	324	160	140	155	51
19	33	22	19	37	16	54	114	330	150	133	157	52
20	32	21	30	27	17	73	108	330	143	129	152	54
21	36	22	69	28	21	74	100	322	135	125	150	54
22	37	22	57	101	14	76	90	327	129	109	107	48
23	40	22	19	93	12	80	88	338	117	101	74	41
24	33	21	15	201	13	89	88	338	113	100	98	41
25	32	21	17	114	17	94	83	335	106	97	146	40
26	30	21	16	77	12	90	89	332	114	97	180	39
27	29	20	13	70	11	92	101	335	148	100	178	38
28	28	25	14	40	12	90	116	324	155	100	176	31
29	28	32	15	23	------	89	132	296	155	95	174	25
30	28	28	15	21	------	86	152	274	137	90	173	31
31	25	------	14	21	------	86	------	253	------	82	171	------
TOTAL	1,253	728	732	1,544	664	1,571	3,206	8,299	5,289	2,891	5,054	2,420
MEAN	40.4	24.3	23.6	49.8	23.7	50.7	107	268	176	93.3	163	80.7
MAX	69	37	69	201	50	94	152	338	242	146	199	169
MIN	25	20	13	13	11	12	82	130	106	38	74	25
AC-FT	2,490	1,440	1,450	3,060	1,320	3,120	6,360	16,460	10,490	5,730	10,020	4,800

CAL YR 1969 TOTAL 41,265.9 MEAN 113 MAX 719 MIN 3.5 AC-FT 81,850
WTR YR 1970 TOTAL 33,651.0 MEAN 92.2 MAX 338 MIN 11 AC-FT 66,750

11348200 PIT RIVER NEAR ALTURAS, CALIF.

LOCATION.--Lat 41°29'00", long 120°37'46", in NW¼NE¼ sec.18, T.42 N., R.12 E., Modoc County, on left bank 500 ft downstream from Noble Creek and 4.7 miles west of Alturas.

DRAINAGE AREA.--1,080 sq mi, excluding Goose Lake basin.

PERIOD OF RECORD.--September 1965 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 4,330 ft (from topographic map).

AVERAGE DISCHARGE.--5 years, 187 cfs (135,500 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for September 1965 to September 1970 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1965	-	-	-	-	-
1966	Mar. 10, 1966	383	4.10	Sept. 8, 1966	10
1967	Jan. 29, 1967	3,070	12.91	Oct. 20, 21, 1966	4.1
1968	Feb. 22, 1968	1,460	8.60	Sept. 6, 1968	22
1969	Jan. 21, 1969	2,530	11.69	Oct. 28, 1968	34
1970	Jan. 24, 1970	7,040	14.19	Jan. 7, 1970	47

Period of record: Maximum discharge, 7,040 cfs Jan. 24, 1970 (gage height, 14.19 ft), from rating curve extended above 2,300 cfs on basis of contracted-opening and road-overflow measurement of peak flow; minimum daily, 4.1 cfs Oct. 20, 21, 1966.

REMARKS.--Records good except those for period of no gage-height record Nov. 26, 1967, to Jan. 17, 1968, which are poor. Flow regulated by many small reservoirs (total capacity, 144,000 acre-ft). Diversions for irrigation of 23,000 acres above station. See schematic diagram of Pit and McCloud River basins elsewhere in this report.

DISCHARGE, IN CUBIC FEET PER SECOND, SEPTEMBER 1965

DAY	SEP	DAY	SEP	DAY	SEP	DAY	SEP	DAY	SEP	DAY	SEP	DAY	SEP	DAY	SEP
1	110	5	151	9	120	13	139	17	134	21	116	25	120	29	89
2	105	6	139	10	128	14	139	18	126	22	116	26	120	30	76
3	100	7	134	11	126	15	187	19	120	23	113	27	111		
4	101	8	120	12	139	16	195	20	120	24	116	28	103		

TOTAL.. 3,713
MEAN.. 124
MAX.. 195
MIN.. 76
AC-FT.. 7,370

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	72	85	48	66	111	160	72	116	51	141	32
2	80	71	89	56	67	80	166	93	80	55	72	51
3	78	71	95	60	69	62	136	111	80	61	50	64
4	71	67	99	61	78	62	122	87	81	78	48	64
5	62	72	93	80	97	71	122	66	67	93	44	64
6	60	80	85	158	111	99	128	52	66	55	54	62
7	60	81	81	212	99	242	132	66	80	42	69	24
8	55	81	79	216	80	235	116	83	95	41	64	10
9	39	80	80	195	70	256	107	97	116	41	62	19
10	39	83	87	149	65	350	139	116	111	40	62	50
11	39	100	83	118	60	293	153	118	118	36	62	52
12	42	136	85	100	56	244	183	105	105	35	62	54
13	56	174	80	92	54	258	172	109	87	35	61	54
14	74	168	60	89	53	212	134	116	62	33	58	61
15	72	158	55	91	52	130	118	118	66	32	55	37
16	72	139	50	92	52	95	122	120	62	33	55	26
17	74	134	46	89	60	81	136	105	54	38	54	24
18	81	198	46	75	71	105	134	99	54	37	55	25
19	87	263	46	65	72	120	122	85	54	37	58	26
20	89	160	46	60	80	95	109	81	48	36	60	25
21	93	136	45	55	97	78	99	71	47	38	60	23
22	91	141	47	56	116	64	95	56	54	38	60	23
23	85	116	47	58	166	69	80	38	64	38	54	22
24	81	109	47	61	185	72	58	35	66	38	25	23
25	78	128	46	65	147	71	39	36	61	39	20	23
26	74	122	50	60	118	78	47	42	64	36	19	24
27	71	107	55	56	105	97	55	95	62	33	20	25
28	69	83	47	55	116	141	54	99	61	31	19	24
29	69	71	48	60	------	147	58	105	52	34	25	23
30	67	89	46	62	------	160	71	118	51	78	32	23
31	67	------	44	64	------	151	------	158	------	120	34	------
TOTAL	2,137	3,490	1,992	2,758	2,462	4,329	3,367	2,752	2,184	1,432	1,614	1,057
MEAN	68.9	116	64.3	89.0	87.9	140	112	88.8	72.8	46.2	52.1	35.2
MAX	93	263	99	216	185	350	183	158	118	120	141	64
MIN	39	67	44	48	52	62	39	35	47	31	19	10
AC-FT	4,240	6,920	3,950	5,470	4,880	8,590	6,680	5,460	4,330	2,840	3,200	2,100

WTR YR 1966 TOTAL 29,574 MEAN 81.0 MAX 350 MIN 10 AC-FT 58,660

11348200 PIT RIVER NEAR ALTURAS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	4.2	95	39	1,220	90	64	286	859	206	68	83
2	25	4.2	145	40	745	92	64	240	977	172	80	87
3	25	4.4	426	40	361	76	61	195	989	153	82	94
4	24	6.2	187	40	258	62	55	185	929	139	82	104
5	22	7.1	170	37	222	64	55	170	854	121	85	141
6	22	37	212	36	178	66	67	180	883	118	90	151
7	21	40	143	35	149	70	92	250	933	104	97	164
8	21	27	105	34	137	73	204	410	955	97	103	135
9	20	19	80	40	129	82	172	470	902	99	103	116
10	12	19	74	50	137	92	162	520	837	103	104	103
11	6.2	25	83	66	139	88	137	566	763	103	94	94
12	5.7	29	195	73	158	94	147	597	705	90	90	92
13	5.6	47	191	78	168	97	174	609	655	78	90	90
14	5.4	41	185	85	145	97	216	475	595	57	94	90
15	5.1	38	130	87	116	92	256	427	480	57	99	92
16	4.7	77	91	83	101	214	267	485	420	66	110	95
17	4.5	170	74	68	110	284	187	557	407	64	99	104
18	4.3	121	62	56	204	267	153	624	374	76	103	101
19	4.2	78	55	50	176	235	158	669	344	82	94	104
20	4.1	111	50	55	127	205	137	734	350	82	99	104
21	4.1	107	60	47	99	185	121	773	354	104	106	101
22	4.2	76	53	37	90	150	119	792	286	103	103	95
23	4.2	58	45	30	88	139	137	768	258	88	87	92
24	4.4	47	50	35	88	125	143	686	214	73	87	90
25	4.4	45	48	40	90	103	187	720	210	70	83	87
26	4.4	61	47	60	87	88	326	672	191	75	85	85
27	4.2	56	42	90	83	83	293	705	176	66	83	83
28	4.2	90	38	380	83	80	374	710	189	73	85	82
29	4.2	256	37	1,910	------	75	465	717	214	76	87	76
30	4.2	159	37	2,010	------	85	339	727	204	72	85	72
31	4.2	------	38	1,500	------	76	------	741	------	67	85	------
TOTAL	312.5	1,860.1	3,248	7,231	5,688	3,629	5,332	16,660	16,507	2,934	2,842	3,007
MEAN	10.1	62.0	105	233	203	117	178	537	550	94.6	91.7	100
MAX	25	256	426	2,010	1,220	284	465	792	989	206	110	164
MIN	4.1	4.2	37	30	83	62	55	170	176	57	68	72
AC-FT	620	3,690	6,440	14,340	11,280	7,200	10,580	33,050	32,740	5,820	5,640	5,960

CAL YR 1966 TOTAL 27,375.6 MEAN 75.0 MAX 426 MIN 4.1 AC-FT 54,300
WTR YR 1967 TOTAL 69,250.6 MEAN 190 MAX 2,010 MIN 4.1 AC-FT 137,400

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	37	68	40	45	187	73	54	63	78	111	36
2	73	37	75	40	48	170	71	62	60	80	106	36
3	78	40	92	39	53	150	88	92	58	60	104	37
4	88	41	155	38	70	135	88	98	56	54	100	36
5	99	41	100	38	93	124	84	102	73	50	94	33
6	80	43	73	39	176	121	86	128	168	56	51	22
7	76	47	63	41	204	121	92	119	223	51	48	23
8	95	50	57	46	202	113	92	113	202	44	44	24
9	48	48	54	53	208	106	82	104	183	45	44	24
10	41	48	52	59	231	98	90	90	143	45	48	25
11	42	47	49	45	262	104	92	65	124	43	56	24
12	44	47	47	38	239	106	82	73	104	50	58	24
13	44	47	44	80	193	88	73	117	90	48	60	24
14	43	45	42	150	145	80	56	229	84	44	65	74
15	44	44	40	270	127	80	50	208	84	48	68	84
16	50	44	40	262	118	76	56	152	63	37	70	88
17	42	45	42	255	166	78	58	113	62	36	70	90
18	42	48	47	175	506	90	66	76	63	35	70	88
19	52	64	43	140	468	86	70	71	63	34	102	92
20	47	70	39	118	1,090	74	65	88	65	34	113	92
21	43	114	41	106	1,000	78	80	106	73	33	102	94
22	52	133	43	98	1,240	88	146	146	65	33	132	98
23	40	78	47	93	1,320	88	150	217	57	34	141	56
24	38	68	45	88	1,220	80	148	254	56	42	130	44
25	40	78	43	68	991	71	135	280	102	51	106	44
26	42	73	42	48	705	76	143	206	115	65	80	44
27	43	70	41	44	372	80	119	154	96	106	65	43
28	41	72	40	43	275	76	94	84	82	115	54	43
29	37	77	40	42	229	73	63	98	73	106	44	45
30	37	71	39	42	------	70	45	94	73	106	40	46
31	37	------	39	44	------	71	------	74	------	113	36	------
TOTAL	1,650	1,767	1,682	2,682	11,996	3,038	2,637	3,867	2,823	1,776	2,412	1,533
MEAN	53.2	58.9	54.3	86.5	414	98.0	87.9	125	94.1	57.3	77.8	51.1
MAX	99	133	155	270	1,320	187	150	280	223	115	141	98
MIN	37	37	39	38	45	70	45	54	56	33	36	22
AC-FT	3,270	3,500	3,340	5,320	23,790	6,030	5,230	7,670	5,600	3,520	4,780	3,040

CAL YR 1967 TOTAL 68,929 MEAN 189 MAX 2,010 MIN 30 AC-FT 136,700
WTR YR 1968 TOTAL 37,863 MEAN 103 MAX 1,320 MIN 22 AC-FT 75,100

11348200 PIT RIVER NEAR ALTURAS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	35	72	74	279	170	1,250	732	289	158	91	124
2	50	36	68	83	230	161	1,260	722	248	140	126	143
3	50	38	65	132	215	159	1,150	710	266	124	131	140
4	44	39	63	247	275	148	955	720	248	93	143	148
5	42	39	65	283	186	161	792	708	256	78	143	143
6	44	41	72	226	167	176	785	657	298	89	143	124
7	46	50	75	180	159	159	732	624	258	138	138	105
8	76	49	74	140	155	151	638	543	245	148	131	103
9	57	57	166	84	165	146	578	662	358	110	121	89
10	60	59	115	83	365	123	573	696	472	108	85	87
11	59	62	106	75	846	146	523	761	559	117	85	83
12	59	106	86	88	1,240	153	588	837	540	95	89	85
13	62	106	74	373	1,100	142	636	914	436	79	89	93
14	83	85	83	668	849	138	629	938	372	87	87	99
15	72	77	83	256	602	134	614	974	382	58	81	103
16	65	72	82	146	549	157	543	953	356	51	81	97
17	59	86	80	115	474	220	514	912	314	64	74	93
18	53	148	72	90	384	529	595	873	316	53	72	93
19	47	222	65	94	321	468	679	852	324	56	81	93
20	45	142	60	651	264	419	686	828	336	56	83	91
21	44	119	55	2,250	230	304	725	778	346	56	85	99
22	41	106	50	2,230	205	550	758	689	332	69	97	140
23	38	113	49	1,610	199	881	777	612	285	64	97	124
24	36	113	60	1,120	180	751	797	603	273	67	95	124
25	36	106	92	694	159	744	847	566	268	58	91	136
26	47	100	104	1,110	180	842	878	502	253	58	78	119
27	36	88	92	1,180	161	924	866	482	229	76	79	101
28	34	77	83	836	174	950	837	458	221	91	93	95
29	42	75	74	545	------	962	818	336	203	97	101	74
30	53	72	74	413	------	1,020	751	229	178	99	99	52
31	38	------	72	323	------	1,130	------	350	------	97	103	------
TOTAL	1,567	2,518	2,431	16,399	10,313	13,118	22,774	21,221	9,461	2,734	3,092	3,200
MEAN	50.5	83.9	78.4	529	368	423	759	685	315	88.2	99.7	107
MAX	83	222	166	2,250	1,240	1,130	1,260	974	559	158	143	148
MIN	34	35	49	74	155	123	514	229	178	51	72	52
AC-FT	3,110	4,990	4,820	32,530	20,460	26,020	45,170	42,090	18,770	5,420	6,130	6,350

CAL YR 1968 TOTAL 39,280 MEAN 107 MAX 1,320 MIN 22 AC-FT 77,910
WTR YR 1969 TOTAL 108,828 MEAN 298 MAX 2,250 MIN 34 AC-FT 215,900

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	62	53	82	526	163	140	462	308	285	57	83
2	50	64	53	79	440	203	130	466	219	236	56	90
3	62	62	53	76	432	230	126	388	219	163	56	79
4	52	64	56	53	428	217	111	313	261	140	60	86
5	49	76	60	58	466	214	92	311	138	130	74	90
6	50	87	81	49	466	241	136	322	200	128	72	90
7	53	101	65	47	434	268	116	360	222	126	83	96
8	58	97	59	50	390	683	136	404	214	107	88	109
9	62	89	60	59	352	916	150	512	227	94	90	126
10	85	83	59	146	328	894	135	570	268	86	96	116
11	81	89	64	260	315	935	160	664	336	74	100	109
12	87	81	85	240	306	696	160	674	352	67	107	116
13	85	79	143	510	328	560	163	652	350	63	136	109
14	85	72	119	887	318	510	166	590	388	57	143	103
15	103	72	95	866	290	524	192	490	454	51	150	105
16	138	76	83	810	261	430	222	430	440	63	158	107
17	133	74	78	1,790	266	372	187	394	382	88	156	98
18	148	76	72	1,850	302	336	163	428	330	74	153	88
19	148	74	89	1,470	287	318	163	496	311	74	163	90
20	128	72	210	1,140	233	311	176	526	256	83	160	88
21	110	70	522	863	219	308	182	504	217	86	107	86
22	117	69	598	1,080	217	297	173	518	195	92	90	83
23	101	67	336	1,730	192	283	160	448	156	92	92	77
24	89	69	304	4,410	176	238	160	434	109	88	94	74
25	83	65	289	2,840	166	208	156	434	133	88	88	70
26	79	62	285	2,240	163	184	160	428	136	74	74	68
27	74	59	229	1,820	150	168	244	448	146	62	70	65
28	70	54	148	1,580	143	156	290	464	346	60	77	62
29	64	53	103	1,270	------	156	302	450	386	58	83	60
30	62	54	91	993	------	156	346	368	356	63	86	57
31	62	------	85	722	------	153	------	315	------	62	92	------
TOTAL	2,617	2,172	4,627	30,070	8,594	11,328	5,197	14,263	8,055	3,014	3,111	2,680
MEAN	84.4	72.4	149	970	307	365	173	460	269	97.2	100	89.3
MAX	148	101	598	4,410	526	935	346	674	454	285	163	126
MIN	49	53	53	47	143	153	92	311	109	51	56	57
AC-FT	5,190	4,310	9,180	59,640	17,050	22,470	10,310	28,290	15,980	5,980	6,170	5,320

CAL YR 1969 TOTAL 111,728 MEAN 306 MAX 2,250 MIN 49 AC-FT 221,600
WTR YR 1970 TOTAL 95,728 MEAN 262 MAX 4,410 MIN 47 AC-FT 189,900

11348500 PIT RIVER NEAR CANBY, CALIF.

LOCATION.--Lat 41°24'22", long 120°55'36", in NW¼SW¼ sec.10, T.41 N., R.9 E., Modoc County, on right bank at lower end of Warm Spring Valley, 4 miles southwest of Canby.

DRAINAGE AREA.--1,431 sq mi, excluding Goose Lake basin.

PERIOD OF RECORD.--January 1904 to December 1905, May 1929 to September 1970 (1929-31 incomplete).

GAGE.--Water-stage recorder. Datum of gage is 4,266 ft above mean sea level. January 1904 to December 1905 nonrecording gage and May 6, 1929, to Sept. 30, 1931, water-stage recorder, at site 100 ft upstream at different datum.

AVERAGE DISCHARGE.--40 years (1904-5, 1931-70), 237 cfs (171,700 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Mar. 14, 1966	828	4.21	Sept.17, 1966	2.8
1967	Jan. 30, 1967	4,350	8.65	Nov. 1-4, 1966	9.0
1968	Feb. 21, 1968	2,370	6.40	July 30, 1968	7.8
1969	Jan. 22, 1969	3,640	7.91	July 27, 1969	2.8
1970	Jan. 24, 1970	6,690	10.93	Aug. 3, 1970	1.8

Period of record: Maximum discharge observed, 13,000 cfs Mar. 8, 1904 (gage height, 15.0 ft, site and datum then in use); minimum, 0.1 cfs Apr. 29, Aug. 5, Sept. 18, 1934, Aug. 18-21, 1935.

REMARKS.--Records good. Stage-discharge relation affected by backwater May 29 to July 3, 1970. Flow regulated by many small reservoirs (total capacity now, about 144,000 acre-ft). Diversions for irrigation of about 39,000 acres above station. See schematic diagram of Pit and McCloud River basins elsewhere in this report. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

REVISIONS (WATER YEARS).--WSP 1445: 1904, 1935(M), 1936, 1937(M). WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	78	108	55	75	152	210	19	33	26	13	37
2	53	81	103	69	82	129	228	16	94	32	12	12
3	54	80	106	76	83	98	219	13	106	50	13	12
4	70	80	106	80	90	89	181	12	93	57	12	13
5	80	81	106	78	121	92	165	12	109	58	15	12
6	76	83	103	109	148	133	167	12	113	62	16	11
7	80	90	97	199	132	259	176	14	110	57	22	9.7
8	120	91	111	277	120	428	174	20	99	31	24	14
9	77	90	97	273	107	430	160	40	91	12	20	18
10	61	87	99	232	100	570	189	43	108	13	15	14
11	52	94	102	176	90	648	244	99	97	22	12	11
12	47	134	102	137	82	592	270	133	94	33	14	11
13	48	172	100	120	74	739	273	156	97	71	24	12
14	54	187	85	117	70	738	237	108	89	31	61	12
15	74	166	54	118	67	503	183	101	97	24	47	6.7
16	81	155	47	113	70	296	166	102	81	16	50	5.4
17	81	150	46	110	74	214	171	95	71	20	49	2.8
18	84	154	47	106	84	199	182	93	64	21	16	8.9
19	91	214	48	82	95	269	167	63	59	22	11	58
20	120	243	52	69	121	240	145	66	53	23	10	81
21	109	162	52	76	167	390	133	66	46	21	9.6	62
22	102	145	54	77	200	298	127	59	41	20	8.8	50
23	98	152	56	74	259	162	118	72	37	20	8.3	29
24	95	139	52	73	272	138	89	83	35	19	13	23
25	90	129	54	73	233	134	84	40	32	18	52	19
26	87	133	56	73	171	128	73	22	24	17	53	16
27	85	129	62	76	150	133	54	8.8	17	14	40	18
28	82	117	43	73	148	157	40	8.6	15	15	14	16
29	80	108	59	72	------	200	31	7.3	16	14	9.5	15
30	78	100	51	74	------	215	22	11	25	15	18	17
31	83	------	50	76	------	219	------	14	------	14	61	------
TOTAL	2,482	3,824	2,308	3,413	3,485	8,992	4,678	1,608.7	2,046	868	743.2	626.5
MEAN	80.1	127	74.5	110	124	290	156	51.9	68.2	28.0	24.0	20.9
MAX	120	243	111	277	272	739	273	156	113	71	61	81
MIN	47	78	43	55	67	89	22	7.3	15	12	8.3	2.8
AC-FT	4,920	7,580	4,580	6,770	6,910	17,840	9,280	3,190	4,060	1,720	1,470	1,240

CAL YR 1965 TOTAL 149,544.7 MEAN 410 MAX 2,930 MIN 5.7 AC-FT 296,600
WTR YR 1966 TOTAL 35,074.4 MEAN 96.1 MAX 739 MIN 2.8 AC-FT 69,570

11348500 PIT RIVER NEAR CANBY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	9.0	270	64	2,280	175	175	582	852	285	47	59
2	17	9.0	300	63	1,670	180	164	498	918	180	14	50
3	17	9.0	360	61	1,070	168	153	468	967	229	19	46
4	17	9.0	490	59	643	141	142	420	1,020	258	19	44
5	18	9.5	735	56	468	127	136	375	1,020	269	30	43
6	19	13	390	51	387	123	139	340	988	194	30	43
7	34	14	275	45	318	123	150	340	870	153	30	55
8	45	29	220	51	277	126	190	432	906	122	29	85
9	34	47	195	56	255	128	300	604	942	113	29	80
10	29	55	185	63	249	142	247	774	1,080	104	42	90
11	23	122	255	72	268	167	237	816	1,030	101	98	127
12	18	79	370	82	302	169	227	834	888	78	60	175
13	18	81	480	95	374	176	242	840	798	75	47	179
14	23	66	490	106	371	179	315	816	744	46	46	109
15	17	71	287	115	285	190	395	618	678	56	40	91
16	17	83	199	114	239	631	456	582	588	62	35	105
17	15	140	156	107	238	881	390	648	504	64	36	124
18	15	148	132	100	305	724	355	648	486	80	32	135
19	14	296	117	79	376	581	345	774	450	68	67	128
20	12	230	108	84	288	479	305	906	426	56	78	163
21	13	204	102	79	216	386	270	1,020	350	48	68	127
22	13	168	94	50	190	334	280	1,010	370	64	62	119
23	13	128	85	40	189	322	426	930	290	80	60	111
24	12	91	78	44	193	298	405	768	310	80	64	102
25	10	97	73	51	192	265	516	756	270	72	77	105
26	9.5	110	70	82	179	230	564	894	221	58	99	94
27	9.5	135	66	130	171	208	600	846	147	22	113	84
28	10	190	65	247	173	193	684	792	98	36	83	83
29	9.5	285	64	1,520	------	186	720	846	92	42	83	95
30	9.5	370	64	3,010	------	183	714	846	151	50	76	116
31	9.5	------	64	3,310	------	192	------	834	------	54	71	------
TOTAL	537.5	3,297.5	6,839	10,086	12,166	8,407	10,242	21,857	18,454	3,199	1,684	2,967
MEAN	17.3	110	221	325	435	271	341	705	615	103	54.3	98.9
MAX	45	370	735	3,310	2,280	881	720	1,020	1,080	285	113	179
MIN	9.5	9.0	64	40	171	123	136	340	92	22	14	43
AC-FT	1,070	6,540	13,570	20,010	24,130	16,680	20,320	43,350	36,600	6,350	3,340	5,890

CAL YR 1966 TOTAL 37,134.4 MEAN 102 MAX 739 MIN 2.8 AC-FT 73,660
WTR YR 1967 TOTAL 99,736.0 MEAN 273 MAX 3,310 MIN 9.0 AC-FT 197,800

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	49	80	44	68	382	98	78	86	50	12	45
2	96	49	73	46	81	323	100	52	66	62	10	40
3	100	49	78	44	100	285	103	44	55	53	15	38
4	92	49	88	42	132	244	114	65	46	60	26	35
5	93	51	167	41	190	225	117	91	64	92	30	26
6	128	52	108	40	288	219	113	111	116	60	31	34
7	111	56	97	39	355	206	112	104	161	46	92	31
8	92	56	91	49	390	192	117	113	199	51	91	29
9	96	65	87	59	409	176	111	100	238	41	72	27
10	79	63	83	68	441	159	94	96	241	35	45	25
11	57	61	79	64	535	148	88	57	193	32	33	24
12	52	59	73	62	503	147	95	79	98	30	27	22
13	50	88	66	62	425	155	95	110	57	16	33	18
14	50	72	60	64	326	128	71	143	52	24	39	14
15	50	63	55	90	243	119	57	187	53	26	48	13
16	50	62	52	250	211	115	58	256	48	27	65	13
17	53	60	53	419	267	123	53	206	29	27	66	13
18	54	63	54	474	650	128	49	164	16	14	111	12
19	51	71	55	379	1,070	130	15	120	53	11	104	12
20	53	77	57	291	1,420	116	46	101	69	8.9	149	13
21	57	86	61	214	2,100	103	20	101	50	9.6	148	24
22	55	137	66	204	2,200	106	29	96	39	11	127	27
23	53	147	73	213	2,220	116	30	82	41	8.4	131	13
24	54	100	62	197	2,000	109	56	125	20	15	147	107
25	51	86	56	165	1,660	106	57	355	22	37	143	102
26	50	87	59	148	1,310	105	60	398	23	17	130	115
27	59	114	62	115	960	110	102	327	28	10	109	72
28	58	79	55	89	605	107	200	223	19	11	89	40
29	55	76	50	77	454	101	221	158	34	11	75	34
30	51	85	46	62	------	99	138	62	62	7.8	61	29
31	49	------	41	63	------	97	------	91	------	9.3	52	------
TOTAL	2,097	2,212	2,187	4,174	21,613	4,879	2,619	4,295	2,278	913.0	2,311	1,047
MEAN	67.6	73.7	70.5	135	745	157	87.3	139	75.9	29.5	74.5	34.9
MAX	128	147	167	474	2,220	382	221	398	241	92	149	115
MIN	49	49	41	39	68	97	15	44	16	7.8	10	12
AC-FT	4,160	4,390	4,340	8,280	42,870	9,680	5,190	8,520	4,520	1,810	4,580	2,080

CAL YR 1967 TOTAL 95,558.0 MEAN 262 MAX 3,310 MIN 14 AC-FT 189,500
WTR YR 1968 TOTAL 50,625.0 MEAN 138 MAX 2,220 MIN 7.8 AC-FT 100,400

11348500 PIT RIVER NEAR CANBY, CALIF.--CONTINUED

DISCHARGF, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	63	92	98	604	307	2,080	899	328	174	30	32
2	31	54	92	99	578	295	2,050	868	301	135	30	31
3	43	52	92	125	494	273	1,900	851	212	107	26	38
4	61	55	90	233	402	267	1,680	845	250	93	21	42
5	63	54	101	386	362	273	1,430	834	212	89	18	87
6	51	54	107	430	351	281	1,230	804	176	86	18	158
7	46	55	101	348	326	272	1,160	745	176	81	19	152
8	45	88	98	272	318	253	1,070	697	162	80	28	118
9	51	83	98	156	388	244	947	539	194	80	31	127
10	73	103	258	169	629	223	859	557	183	75	36	93
11	68	84	188	142	1,310	199	824	694	328	72	76	69
12	67	95	164	126	1,900	211	774	762	746	86	180	70
13	71	140	127	652	1,940	204	823	956	753	87	109	75
14	84	138	122	976	1,670	189	849	1,070	572	69	83	120
15	113	114	132	984	1,270	188	832	1,000	488	54	71	134
16	130	107	130	488	1,060	198	796	986	425	45	81	122
17	96	99	129	278	942	257	731	975	400	37	73	107
18	74	121	148	201	819	464	749	935	353	42	66	99
19	68	208	80	179	680	753	811	915	362	70	64	98
20	61	286	105	752	563	715	862	859	365	70	62	96
21	58	213	92	2,540	449	623	874	759	384	67	58	95
22	54	204	101	3,390	386	572	904	801	388	57	57	113
23	53	178	72	2,670	351	880	949	685	398	43	57	125
24	51	150	79	2,170	331	1,200	1,020	625	319	29	57	126
25	56	150	93	1,650	298	1,150	1,040	605	289	11	63	120
26	54	139	117	1,790	282	1,180	1,030	575	267	4.0	68	134
27	51	128	124	1,320	292	1,380	1,030	559	252	2.8	67	132
28	55	116	114	1,280	280	1,590	1,010	531	233	7.3	62	116
29	48	98	101	1,120	------	1,710	980	498	187	11	59	106
30	51	98	101	837	------	1,770	957	238	177	13	58	96
31	60	------	95	767	------	1,920	------	257	------	22	53	------
TOTAL	1,919	3,527	3,543	26,628	19,275	20,041	32,251	22,924	9,880	1,899.1	1,781	3,031
MEAN	61.9	118	114	859	688	646	1,075	739	329	61.3	57.5	101
MAX	130	286	258	3,390	1,940	1,920	2,080	1,070	753	174	180	158
MIN	31	52	72	98	280	188	731	238	162	2.8	18	31
AC-FT	3,810	7,000	7,030	52,820	38,230	39,750	63,970	45,470	19,600	3,770	3,530	6,010

CAL YR 1968 TOTAL 53,118.0 MEAN 145 MAX 2,220 MIN 7.8 AC-FT 105,400
WTR YR 1969 TOTAL 146,699.1 MEAN 402 MAX 3,390 MIN 2.8 AC-FT 291,000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	77	80	121	1,130	347	229	430	235	281	25	71
2	73	76	79	108	859	406	215	516	305	300	4.9	79
3	59	76	94	86	734	459	197	507	238	220	1.8	76
4	64	83	86	70	715	491	190	412	197	179	11	73
5	71	105	83	62	701	445	169	340	205	99	25	69
6	63	115	105	61	718	461	155	342	197	120	12	74
7	59	107	106	65	687	547	194	360	140	134	4.1	86
8	57	116	92	67	627	964	180	407	168	102	4.9	104
9	58	112	78	84	558	1,340	194	487	212	70	4.5	109
10	85	104	79	145	504	1,530	211	591	220	62	23	110
11	82	98	77	247	465	1,420	190	660	281	55	32	111
12	103	102	113	361	461	1,400	219	739	293	35	20	135
13	137	95	164	527	466	1,090	217	776	323	33	27	111
14	144	93	182	1,080	471	880	232	745	355	41	35	104
15	130	87	142	1,510	434	803	238	658	375	41	42	97
16	131	86	116	1,620	470	765	268	542	405	44	41	87
17	162	88	102	2,330	656	641	273	477	461	33	63	83
18	158	86	93	3,060	574	553	229	443	385	37	50	80
19	177	84	111	2,680	516	499	218	495	346	39	42	72
20	175	80	218	2,050	441	463	218	557	310	49	91	72
21	146	78	656	1,680	390	442	225	579	281	100	253	87
22	130	78	922	1,730	381	421	224	561	235	157	195	86
23	127	77	916	3,140	358	405	216	519	173	198	110	99
24	121	79	506	6,080	322	380	212	433	144	105	80	132
25	108	98	501	5,810	299	333	212	507	273	83	86	113
26	100	81	487	4,520	285	303	221	426	346	75	90	91
27	94	78	415	3,840	269	271	257	410	310	74	66	84
28	98	80	289	3,100	270	254	324	272	293	66	59	79
29	88	77	164	2,500	------	240	351	187	246	55	62	55
30	81	77	145	1,970	------	237	363	231	238	42	61	23
31	87	------	132	1,500	------	236	------	246	------	28	61	------
TOTAL	3,250	2,673	7,333	52,204	14,761	19,026	6,841	14,855	8,190	2,957	1,682.2	2,652
MEAN	105	89.1	237	1,684	527	614	228	479	273	95.4	54.3	88.4
MAX	177	116	922	6,080	1,130	1,530	363	776	461	300	253	135
MIN	57	76	77	61	269	236	155	187	140	28	1.8	23
AC-FT	6,450	5,300	14,550	103,500	29,280	37,740	13,570	29,460	16,240	5,870	3,340	5,260

CAL YR 1969 TOTAL 150,966.1 MEAN 414 MAX 3,390 MIN 2.8 AC-FT 299,400
WTR YR 1970 TOTAL 136,424.2 MEAN 374 MAX 6,080 MIN 1.8 AC-FT 270,600

11349000 PIT RIVER NEAR LOOKOUT, CALIF.

LOCATION (REVISED). --Lat 41°19'27", long 121°07'36", in SE¼NE¼ sec.11, T.40 N., R.7 E., Modoc County, on right bank 0.2 mile downstream from unnamed tributary and 8.2 miles north of Lookout.

DRAINAGE AREA.--1,585 sq mi, excluding Goose Lake basin.

PERIOD OF RECORD.--January 1929 to September 1931, August 1958 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 4,160 ft (from topographic map). January 1929 to September 1931 at site approximately 2.5 miles downstream at different datum.

AVERAGE DISCHARGE.--14 years, 263 cfs (190,500 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Mar. 13, 1966	2,050	12.92	Sept.18, 1966	7.0
1967	Jan. 31, 1967	5,960	17.72	Oct. 27, 28, 1966	14
1968	Feb. 23, 1968	4,640	16.57	Aug. 1, 1968	12
1969	Apr. 1, 1969	3,260	15.06	July 28, 1969	15
1970	Jan. 24, 1970	10,900	20.96	Aug. 5, 1970	8.6

Period of record: Maximum discharge, 10,900 cfs Jan. 24, 1970 (gage height, 20.96 ft); no flow Aug. 29, 1931.

REMARKS.--Records good. No gage-height record Mar. 18 to Apr. 4, 1969. Flow regulated by many small reservoirs. Diversions for irrigation of 41,000 acres above station. See schematic diagram of Pit and McCloud River basins elsewhere in this report.

REVISIONS.--WSP 1931: Drainage area.

DISCHARGF, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	106	85	116	64	92	194	379	29	25	31	16	53
2	73	80	120	74	94	180	352	28	79	29	15	24
3	52	84	116	89	106	144	326	26	108	37	14	15
4	62	82	122	98	109	116	274	22	116	61	15	14
5	78	84	121	106	131	114	243	24	78	52	14	13
6	79	83	118	120	173	165	232	25	130	62	18	12
7	73	90	111	190	165	330	231	25	114	57	18	9.7
8	111	97	120	312	156	620	232	29	114	44	28	9.2
9	100	95	111	365	122	706	234	52	97	24	23	14
10	71	93	106	292	104	959	336	54	96	16	20	18
11	60	94	112	231	97	971	471	66	111	16	16	14
12	53	121	111	184	93	1,030	560	140	97	26	14	11
13	52	163	113	157	88	1,890	443	159	100	51	16	12
14	54	190	96	150	82	1,860	362	147	93	42	42	14
15	67	188	61	150	78	1,450	286	116	80	29	50	15
16	82	169	56	143	81	745	245	111	89	25	37	10
17	84	165	56	134	86	491	231	111	53	18	50	8.8
18	86	180	57	118	100	474	238	104	52	20	29	7.0
19	90	176	59	116	116	617	224	74	52	20	18	20
20	108	261	62	84	134	524	202	66	42	21	13	53
21	128	198	60	88	172	519	184	71	38	20	11	70
22	116	159	64	93	220	536	169	62	35	18	11	39
23	108	165	52	90	312	387	160	52	33	18	9.7	41
24	104	174	61	89	331	398	130	80	34	19	9.2	26
25	100	151	62	89	301	457	102	50	32	19	16	22
26	94	150	63	86	238	452	87	29	27	20	54	19
27	90	147	70	89	204	432	56	22	20	17	42	16
28	86	133	61	82	202	418	50	15	17	15	31	17
29	85	109	60	86	------	435	40	16	19	17	16	17
30	81	125	58	92	------	424	37	14	24	16	10	16
31	79	------	66	94	------	418	------	20	------	18	18	------
TOTAL	2,612	4,091	2,621	4,155	4,187	18,456	7,116	1,839	2,005	878	693.9	629.7
MEAN	84.3	136	84.5	134	150	595	237	59.3	66.8	28.3	22.4	21.0
MAX	128	261	122	365	331	1,890	560	159	130	62	54	70
MIN	52	80	52	64	78	114	37	14	17	15	9.2	7.0
AC-FT	5,180	8,110	5,200	8,240	8,300	36,610	14,110	3,650	3,980	1,740	1,380	1,250

CAL YR 1965 TOTAL 179,932.0 MEAN 493 MAX 3,750 MIN 20 AC-FT 356,900
WTR YR 1966 TOTAL 49,283.6 MEAN 135 MAX 1,890 MIN 7.0 AC-FT 97,750

11349000 PIT RIVER NEAR LOOKOUT, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	15	485	65	3,320	308	299	690	869	276	57	74
2	18	15	541	65	2,480	294	282	640	917	200	45	62
3	18	15	675	66	1,750	274	259	600	962	196	20	54
4	18	15	948	62	1,070	231	238	580	1,000	239	23	49
5	18	16	1,690	58	770	210	238	565	1,020	272	19	46
6	19	19	888	54	632	204	245	560	1,020	228	30	43
7	20	22	659	60	527	208	261	580	893	170	31	45
8	27	20	452	70	449	208	284	650	860	144	29	68
9	35	28	297	78	407	218	373	764	920	124	28	77
10	28	41	263	81	418	236	376	1,040	1,000	116	28	96
11	24	69	270	80	443	256	352	1,150	1,060	111	62	95
12	24	117	356	86	519	266	357	1,120	911	98	88	160
13	21	68	782	85	623	265	354	1,050	794	83	55	163
14	20	70	833	85	596	272	452	1,010	716	66	48	161
15	20	64	524	84	463	284	638	836	668	49	46	98
16	19	81	354	81	382	1,000	668	737	602	62	39	93
17	19	79	265	77	404	1,500	665	785	527	65	36	114
18	18	144	223	74	502	1,200	623	764	496	70	37	147
19	18	155	190	70	533	1,000	608	863	477	76	37	124
20	16	351	173	65	443	850	530	920	452	65	76	161
21	16	248	157	61	331	700	502	1,110	390	52	80	138
22	18	226	140	56	297	650	563	1,090	365	48	71	134
23	18	174	130	50	297	680	767	1,050	370	68	64	116
24	16	120	110	52	303	599	900	851	265	78	66	112
25	16	85	90	54	301	505	1,200	749	290	74	70	102
26	15	92	80	56	276	429	1,200	869	259	68	85	112
27	14	107	75	90	272	373	1,100	878	196	53	108	90
28	14	177	70	202	290	341	1,000	815	128	27	112	82
29	15	452	68	2,650	------	314	900	836	104	39	87	83
30	16	554	67	4,380	------	303	790	848	102	45	88	112
31	15	------	66	5,040	------	308	------	842	------	56	81	------
TOTAL	590	3,639	11,921	14,137	19,098	14,486	17,024	25,842	18,633	3,318	1,746	3,011
MEAN	19.0	121	385	456	682	467	567	834	621	107	56.3	100
MAX	35	554	1,690	5,040	3,320	1,500	1,200	1,150	1,060	276	112	163
MIN	14	15	66	50	272	204	238	560	102	27	19	43
AC-FT	1,170	7,220	23,650	28,040	37,880	28,730	33,770	51,260	36,960	6,580	3,460	5,970

CAL YR 1966 TOTAL 56,109.6 MEAN 154 MAX 1,890 MIN 7.0 AC-FT 111,300
WTR YR 1967 TOTAL 133,445.0 MEAN 366 MAX 5,040 MIN 14 AC-FT 264,700

DISCHARGF, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	108	47	89	56	121	650	170	130	102	60	12	56
2	103	48	73	54	150	545	173	75	85	54	14	49
3	118	48	95	45	187	480	163	56	65	67	14	44
4	101	48	90	42	215	424	169	58	59	54	12	43
5	96	51	144	44	265	401	176	84	59	79	24	38
6	112	52	156	42	335	384	170	118	81	86	28	33
7	134	53	104	44	400	331	163	114	150	58	34	38
8	107	58	84	49	508	297	160	122	178	49	97	37
9	95	57	80	56	542	265	160	122	230	52	89	34
10	101	65	75	69	590	243	143	107	234	41	69	33
11	72	61	71	68	665	224	121	109	216	35	43	31
12	55	62	66	66	704	220	138	66	155	33	33	30
13	52	68	63	65	623	239	130	134	82	32	27	28
14	50	89	59	67	482	256	114	144	60	21	34	25
15	51	70	56	80	352	254	93	186	57	25	40	22
16	51	63	54	160	297	248	76	224	56	28	53	20
17	51	62	52	330	352	299	78	231	47	30	77	20
18	53	62	53	420	850	301	71	186	34	30	76	20
19	52	73	60	330	1,510	254	59	154	24	21	120	19
20	48	78	64	300	2,380	226	37	118	64	16	135	19
21	53	82	70	240	3,220	199	58	113	62	15	163	20
22	55	100	70	215	3,810	187	36	118	52	14	146	29
23	53	166	65	215	4,170	184	42	109	41	14	134	34
24	52	129	60	173	3,820	188	46	108	42	14	147	22
25	52	97	58	162	2,950	196	70	244	28	18	154	122
26	48	92	59	140	2,270	199	66	357	27	31	146	98
27	48	88	62	128	1,720	186	77	341	28	21	132	98
28	61	124	59	113	1,100	184	154	252	30	16	105	66
29	56	82	55	102	782	179	226	198	25	14	88	44
30	52	85	52	96	------	177	198	138	44	14	75	38
31	49	------	53	106	------	173	------	61	------	13	63	------
TOTAL	2,189	2,260	2,251	4,077	35,370	8,593	3,537	4,577	2,417	1,055	2,384	1,210
MEAN	70.6	75.3	72.6	132	1,220	277	118	148	80.6	34.0	76.9	40.3
MAX	134	166	156	420	4,170	650	226	357	234	86	163	122
MIN	48	47	52	42	121	173	36	56	24	13	12	19
AC-FT	4,340	4,480	4,460	8,090	70,160	17,040	7,020	9,080	4,790	2,090	4,730	2,400

CAL YR 1967 TOTAL 123,995 MEAN 340 MAX 5,040 MIN 19 AC-FT 245,900
WTR YR 1968 TOTAL 69,920 MEAN 191 MAX 4,170 MIN 12 AC-FT 138,700

11349000 PIT RIVER NEAR LOOKOUT, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	67	111	120	750	384	3,180	1,000	304	195	44	43
2	38	66	86	125	650	382	2,830	947	327	164	45	34
3	37	57	88	144	570	369	2,390	926	251	146	36	43
4	50	58	92	215	500	351	2,140	917	247	112	28	48
5	66	61	105	470	440	354	1,950	893	240	103	23	55
6	63	59	100	410	405	362	1,720	866	212	106	25	118
7	53	59	121	315	375	354	1,580	800	184	94	27	170
8	48	68	118	240	360	332	1,440	746	184	95	36	145
9	48	94	116	190	480	321	1,280	608	204	96	47	113
10	58	88	200	170	1,050	296	1,140	581	230	92	44	136
11	77	107	290	159	1,850	272	1,070	662	225	85	49	78
12	70	108	244	186	2,380	276	1,010	761	534	85	136	65
13	72	129	192	1,100	2,180	272	1,010	866	722	108	163	74
14	75	156	154	1,610	2,160	260	1,050	1,040	590	93	105	90
15	100	138	159	1,540	1,650	267	1,010	1,030	485	72	80	136
16	122	122	170	806	1,360	296	965	971	418	61	71	135
17	113	116	138	424	1,190	387	896	971	395	57	83	117
18	87	122	122	299	1,040	470	947	923	369	47	69	107
19	73	155	110	263	860	690	938	902	354	77	69	104
20	68	257	81	1,170	698	1,040	986	866	354	83	69	102
21	64	227	90	2,610	575	930	1,000	761	371	72	63	99
22	61	186	91	3,210	488	780	1,020	764	373	62	62	103
23	58	209	93	3,180	447	960	1,070	716	376	52	64	131
24	57	161	91	2,800	418	1,300	1,200	602	345	41	71	128
25	54	167	105	2,050	393	1,690	1,310	590	300	34	79	129
26	63	159	122	2,080	367	1,500	1,210	572	280	22	85	128
27	56	148	156	1,600	373	1,700	1,160	536	261	18	76	143
28	55	135	156	1,480	367	1,920	1,130	527	249	15	66	131
29	57	120	142	1,280	------	2,180	1,080	498	227	19	65	115
30	54	113	121	1,080	------	2,560	1,060	338	187	22	66	108
31	57	------	120	900	------	2,850	------	254	------	27	59	------
TOTAL	1,988	3,712	4,084	32,226	24,376	26,105	40,772	23,434	9,798	2,355	2,005	3,128
MEAN	64.1	124	132	1,040	871	842	1,359	756	327	76.0	64.7	104
MAX	122	257	290	3,210	2,380	2,850	3,180	1,040	722	195	163	170
MIN	34	57	81	120	360	260	896	254	184	15	23	34
AC-FT	3,940	7,360	8,100	63,920	48,350	51,780	80,870	46,480	19,430	4,670	3,980	6,200

CAL YR 1968 TOTAL 73,004 MEAN 199 MAX 4,170 MIN 12 AC-FT 144,800
WTR YR 1969 TOTAL 173,983 MEAN 477 MAX 3,210 MIN 15 AC-FT 345,100

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	91	70	142	1,480	659	272	404	310	298	29	62
2	82	82	76	112	1,150	662	260	518	347	251	27	75
3	55	83	74	99	956	674	242	533	306	235	18	81
4	62	84	89	99	908	716	230	462	220	272	12	77
5	70	105	70	84	884	650	217	360	172	292	8.6	75
6	64	127	86	79	878	698	193	340	217	228	17	69
7	62	113	93	85	848	921	212	354	163	176	18	82
8	62	120	103	84	782	1,560	212	393	128	114	12	88
9	64	122	93	103	701	1,700	220	462	198	117	10	108
10	77	114	89	187	638	1,870	227	578	219	126	10	108
11	88	107	88	252	593	1,720	236	635	261	118	15	111
12	90	106	218	445	599	1,690	224	704	274	84	31	111
13	122	104	220	940	638	1,450	242	746	332	67	21	132
14	153	100	212	2,050	626	1,210	258	734	345	59	25	107
15	152	97	180	2,050	584	1,060	265	668	369	50	32	103
16	138	94	146	2,550	674	983	274	554	391	33	39	94
17	168	93	123	4,060	977	842	298	466	437	38	37	88
18	166	92	112	3,840	851	719	265	427	409	40	69	86
19	184	91	255	3,560	731	650	242	444	367	41	44	83
20	186	88	437	2,720	647	605	236	490	334	41	41	74
21	170	85	1,450	2,300	587	569	240	542	298	37	160	81
22	143	85	1,280	2,980	578	548	242	524	263	40	233	90
23	132	84	1,140	5,560	569	516	240	539	181	41	147	88
24	135	84	707	8,910	530	488	228	395	186	145	94	119
25	119	98	638	7,580	472	423	230	447	203	93	81	126
26	108	94	644	5,950	442	376	236	439	127	80	90	103
27	104	85	516	5,410	402	336	261	387	111	75	87	90
28	99	78	402	3,870	437	312	321	325	221	72	62	86
29	102	68	270	2,990	------	290	362	203	345	62	62	80
30	90	88	184	2,400	------	282	369	240	321	54	62	45
31	85	------	146	1,880	------	278	------	327	------	41	60	------
TOTAL	3,426	2,862	10,211	73,371	20,162	25,457	7,554	14,640	8,055	3,420	1,653.6	2,722
MEAN	111	95.4	329	2,367	720	821	252	472	269	110	53.3	90.7
MAX	186	127	1,450	8,910	1,480	1,870	369	746	437	298	233	132
MIN	55	68	70	79	402	278	193	203	111	33	8.6	45
AC-FT	6,800	5,680	20,250	145,500	39,990	50,490	14,980	29,040	15,980	6,780	3,280	5,400

CAL YR 1969 TOTAL 180,698.0 MEAN 495 MAX 3,210 MIN 15 AC-FT 358,400
WTR YR 1970 TOTAL 173,533.6 MEAN 475 MAX 8,910 MIN 8.6 AC-FT 344,200

11350500 ASH CREEK AT ADIN, CALIF.

LOCATION.--Lat 41°11'54", long 120°56'32", in SE¼SW¼ sec.21, T.39 N., R.9 E., Modoc County, on left bank 300 ft upstream from highway bridge at Adin and 0.4 mile upstream from Butte Creek.

DRAINAGE AREA.--258 sq mi.

PERIOD OF RECORD.--March 1904 to December 1905, October 1928 to November 1932, October 1957 to September 1970. Records of daily discharge for Oct. 19-31, 1928, are in error and should not be used.

GAGE.--Water-stage recorder. Altitude of gage is 4,190 ft (estimated on basis of bench mark 300 ft downstream). Prior to Sept. 12, 1957, water-stage recorder or nonrecording gage at sites within 1 mile of present site at different datums.

AVERAGE DISCHARGE.--18 years (1904-5, 1928-32, 1957-70), 71.8 cfs (50,020 acre-ft per year); median of yearly mean discharges, 53 cfs (38,400 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Mar. 13, 1966	670	8.38	Sept. 7, 1966	8.6
1967	(a)	-	-	Many days	14
1968	Feb. 20, 1968	1,200	10.22	June 26, July 3, 11, 1968	9.1
1969	Jan. 21, 1969	2,080	12.30	Sept. 5, 1969	5.6
1970	Jan. 24, 1970	2,950	b14.69	Aug. 24, 1970	9.5

a Not determined, probably occurred Jan. 29, 1967.
b In gage well, 15.24 ft, from floodmarks.

Period of record: Maximum discharge, 2,950 cfs Jan. 24, 1970 (gage height, 14.69 ft in gage well, 15.24 ft, from floodmarks); no flow for part of Aug. 26, 1962.

REVISIONS.--Figures of maximum discharge for the water years 1958 and 1960 have been revised to 2,100 cfs Feb. 24, 1958 (gage height, 12.67 ft), and 1,570 cfs Feb. 8, 1960 (gage height, 11.30 ft), respectively, superseding those published in WSP 1565, 1715, and 1735.

REMARKS.--Small diversions above station for irrigation. No gage-height record Jan. 29 to Feb. 9, 1967. Flow regulated by many small reservoirs (total capacity, 4,732 acre-ft). See schematic diagram of Pit and McCloud River basins elsewhere in this report.

COOPERATION.--Records furnished by California Department of Water Resources and reviewed by Geological Survey.

REVISIONS.--WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	27	30	32	29	66	81	26	29	16	21	15
2	25	34	30	35	29	52	81	25	26	19	20	16
3	25	30	35	35	30	44	75	25	24	19	20	15
4	21	30	39	38	33	43	75	26	23	17	19	15
5	21	29	31	38	38	53	73	27	21	16	19	15
6	24	29	29	41	43	197	74	27	22	15	19	13
7	27	29	33	48	35	257	74	26	25	15	20	8.6
8	28	31	31	52	35	187	77	27	23	17	20	9.7
9	28	30	31	50	34	215	77	31	22	18	20	10
10	24	31	32	36	31	343	118	30	18	18	20	12
11	25	34	32	33	30	193	161	22	16	18	20	15
12	25	47	32	32	30	227	193	22	16	19	20	14
13	25	39	32	31	23	477	120	21	17	18	15	15
14	27	37	27	31	32	228	96	21	19	18	16	18
15	29	34	20	32	29	161	90	18	13	18	17	17
16	31	32	19	33	29	145	89	18	13	18	17	12
17	29	36	17	29	29	141	84	18	15	16	19	11
18	29	44	19	30	30	155	78	16	15	17	25	17
19	29	39	22	24	30	185	67	14	15	17	22	18
20	29	34	22	25	36	128	64	12	14	20	22	17
21	27	31	26	27	54	105	59	13	15	24	21	16
22	27	31	30	35	76	90	55	14	16	20	18	16
23	28	33	22	31	103	90	50	15	16	20	19	16
24	27	37	26	29	88	97	48	15	15	19	20	17
25	27	37	29	35	63	106	41	15	16	23	20	18
26	26	34	31	30	52	107	38	12	15	19	19	19
27	24	34	32	29	61	107	39	13	14	21	15	20
28	26	32	27	29	75	104	37	14	14	21	16	20
29	27	28	20	29	------	100	32	18	15	22	14	20
30	26	30	43	29	------	95	29	24	20	21	15	22
31	26	------	35	29	------	90	------	27	------	22	15	------
TOTAL	817	1,003	884	1,037	1,207	4,588	2,275	632	542	581	583	467.3
MEAN	26.4	33.4	28.5	33.5	43.1	148	75.8	20.4	18.1	18.7	18.8	15.6
MAX	31	47	43	52	103	477	193	31	29	24	25	22
MIN	21	27	17	24	23	43	29	12	13	15	14	8.6
AC-FT	1,620	1,990	1,750	2,060	2,390	9,100	4,510	1,250	1,080	1,150	1,160	927

CAL YR 1965 TOTAL 39,169.4 MEAN 107 MAX 889 MIN 9.4 AC-FT 77,690
WTR YR 1966 TOTAL 14,616.3 MEAN 40.0 MAX 477 MIN 8.6 AC-FT 28,990

11350500 ASH CREEK AT ADIN, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	24	84	30	400	207	135	253	210	17	22	16
2	22	24	100	30	310	181	134	262	185	19	22	17
3	19	22	124	30	250	140	129	274	156	18	21	14
4	17	22	70	32	230	109	107	308	140	15	21	14
5	20	23	168	35	190	110	120	332	149	14	20	15
6	21	30	78	30	180	129	113	341	180	15	15	14
7	21	31	63	26	175	128	135	374	148	16	16	14
8	21	33	55	27	170	124	196	439	130	16	16	14
9	21	32	45	31	168	128	156	510	123	16	17	16
10	21	30	68	31	173	121	148	588	115	14	19	16
11	20	34	68	31	186	123	154	567	95	15	19	15
12	20	34	84	33	301	112	251	567	91	15	25	14
13	20	33	152	36	292	109	210	478	75	15	21	14
14	22	30	123	35	220	109	326	427	61	15	21	14
15	24	30	73	36	148	132	383	429	59	14	21	14
16	24	40	58	35	136	502	253	449	52	14	23	14
17	23	36	53	30	183	351	208	467	49	20	22	16
18	22	32	49	30	202	340	271	465	45	20	23	20
19	21	30	46	30	166	245	227	460	42	21	22	19
20	20	34	46	32	129	214	214	423	45	16	24	19
21	20	36	43	36	121	198	190	399	43	15	24	22
22	23	37	38	36	136	188	308	378	37	18	24	19
23	24	31	36	31	157	193	439	355	24	21	21	14
24	24	30	36	41	161	162	586	307	26	24	19	14
25	24	33	36	39	157	148	785	254	24	24	20	14
26	26	36	33	37	157	134	564	220	23	21	24	16
27	25	35	30	41	169	123	536	203	23	21	24	19
28	24	52	30	185	224	124	484	190	20	21	23	20
29	24	69	33	940	------	123	336	178	16	23	18	21
30	25	43	32	760	------	121	272	152	17	21	19	21
31	24	------	30	600	------	118	------	156	------	21	18	------
TOTAL	684	1,006	1,984	3,376	5,491	5,246	8,370	11,205	2,403	555	644	489
MEAN	22.1	33.5	64.0	109	196	169	279	361	80.1	17.9	20.8	16.3
MAX	26	69	168	940	400	502	785	588	210	24	25	22
MIN	17	22	30	26	121	109	107	152	16	14	15	14
AC-FT	1,360	2,000	3,940	6,700	10,890	10,410	16,600	22,230	4,770	1,100	1,280	970

CAL YR 1966 TOTAL 15,586.3 MEAN 42.7 MAX 477 MIN 8.6 AC-FT 30,920
WTR YR 1967 TOTAL 41,453.0 MEAN 114 MAX 940 MIN 14 AC-FT 82,220

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	29	30	32	21	139	57	27	14	14	18	24
2	24	30	29	27	23	122	57	25	20	9.7	19	24
3	34	30	29	19	58	111	51	25	21	9.1	20	21
4	30	30	34	21	103	103	51	22	20	19	20	18
5	34	29	46	26	98	107	59	20	35	15	21	21
6	34	29	34	23	179	98	56	18	45	16	21	22
7	29	29	34	30	148	89	50	22	36	16	22	22
8	29	29	30	41	129	82	47	16	29	16	21	20
9	28	30	27	38	144	72	48	14	26	17	21	14
10	30	31	24	38	166	66	50	14	27	14	21	14
11	30	30	21	17	151	62	55	20	16	9.1	21	14
12	25	29	18	35	135	58	54	36	20	13	17	16
13	28	28	15	46	111	64	47	56	27	15	19	16
14	27	29	13	44	84	69	45	48	21	18	21	19
15	26	28	11	131	86	62	45	41	19	16	21	23
16	28	30	11	105	77	66	45	34	19	19	24	21
17	32	29	12	73	172	82	41	29	19	18	24	17
18	29	29	13	46	285	77	45	25	13	16	24	20
19	29	43	14	38	322	68	40	27	16	16	37	20
20	28	32	15	36	780	61	36	29	21	16	35	21
21	31	30	15	46	882	56	36	19	16	16	32	22
22	31	29	16	64	807	54	33	34	16	16	27	23
23	29	29	17	69	920	49	32	42	14	16	25	22
24	27	29	18	69	694	48	31	40	14	16	24	22
25	29	28	19	56	454	62	31	44	9.7	17	22	22
26	29	28	20	32	289	54	29	36	9.1	17	23	22
27	29	28	21	20	212	53	29	30	16	17	24	21
28	31	29	22	22	179	50	29	26	13	17	24	22
29	30	31	24	21	156	50	27	25	13	17	23	21
30	30	31	25	20	------	53	25	24	13	17	23	20
31	29	------	26	24	------	55	------	18	------	18	24	------
TOTAL	897	895	683	1,309	7,865	2,242	1,281	886	597.8	485.9	718	604
MEAN	28.9	29.8	22.0	42.2	271	72.3	42.7	28.6	19.9	15.7	23.2	20.1
MAX	34	43	46	131	920	139	59	56	45	19	37	24
MIN	18	28	11	17	21	48	25	14	9.1	9.1	17	14
AC-FT	1,780	1,780	1,350	2,600	15,600	4,450	2,540	1,760	1,190	964	1,420	1,200

CAL YR 1967 TOTAL 40,254.0 MEAN 110 MAX 940 MIN 11 AC-FT 79,840
WTR YR 1968 TOTAL 18,463.7 MEAN 50.4 MAX 920 MIN 9.1 AC-FT 36,620

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	29	37	40	132	89	1,260	224	31	24	24	9.1
2	20	30	36	41	121	87	1,010	200	29	22	36	7.0
3	19	31	34	68	113	87	762	200	27	21	44	7.0
4	20	33	31	110	107	84	627	187	26	19	27	7.0
5	19	29	38	102	105	86	600	177	51	19	21	5.6
6	19	28	40	83	101	89	588	179	29	21	22	7.0
7	22	28	41	74	90	83	540	192	25	22	21	8.6
8	22	28	45	59	92	78	443	185	26	22	20	9.1
9	26	29	46	40	110	80	389	184	38	22	20	10
10	25	29	59	44	214	74	366	181	46	26	20	12
11	23	29	59	45	610	70	366	181	48	28	20	13
12	25	45	47	47	480	72	385	173	31	25	20	13
13	25	33	40	394	257	72	381	166	28	23	20	16
14	24	31	43	224	202	77	373	160	41	22	19	16
15	23	31	64	126	184	94	324	145	43	22	19	16
16	22	33	72	87	173	135	291	129	34	21	19	17
17	22	33	52	76	162	265	282	111	25	21	22	18
18	22	45	46	53	157	362	408	105	28	23	23	19
19	22	37	40	134	151	259	358	98	42	24	23	20
20	24	32	33	1,330	132	224	360	92	55	26	16	21
21	25	32	27	1,630	118	292	360	83	45	27	17	20
22	26	33	31	640	110	463	360	77	35	25	19	19
23	26	35	39	301	106	514	391	64	29	25	17	19
24	26	39	45	181	96	517	426	59	28	25	16	20
25	26	43	44	217	93	590	406	56	27	21	17	28
26	25	38	42	779	90	758	318	49	28	14	16	23
27	31	35	41	292	86	888	247	47	29	20	18	22
28	28	34	41	192	87	1,050	224	41	33	23	15	22
29	29	35	41	181	------	1,140	238	33	29	23	11	22
30	32	36	41	168	------	1,260	226	34	27	27	11	22
31	29	------	41	147	------	1,370	------	33	------	24	11	------
TOTAL	748	1,003	1,336	7,905	4,479	11,309	13,309	3,845	1,013	707	624	468.4
MEAN	24.1	33.4	43.1	255	160	365	444	124	33.8	22.8	20.1	15.6
MAX	32	45	72	1,630	610	1,370	1,260	224	55	28	44	28
MIN	19	28	27	40	86	70	224	33	25	14	11	5.6
AC-FT	1,480	1,990	2,650	15,680	8,880	22,430	26,400	7,630	2,010	1,400	1,240	929

CAL YR 1968 TOTAL 19,075.7 MEAN 52.1 MAX 920 MIN 9.1 AC-FT 37,840
WTR YR 1969 TOTAL 46,746.4 MEAN 126 MAX 1,630 MIN 5.6 AC-FT 92,720

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	28	28	42	359	210	93	38	62	34	22	9.6
2	21	28	27	37	276	153	91	39	56	21	21	10
3	23	28	28	33	303	139	88	40	50	21	21	10
4	24	28	27	39	324	139	85	43	46	21	21	13
5	24	38	26	34	295	131	83	41	38	22	20	16
6	23	37	27	35	236	135	81	46	38	20	19	16
7	24	32	28	45	200	266	79	43	39	19	28	14
8	27	31	28	48	179	662	78	41	41	19	35	13
9	26	30	29	60	164	408	76	44	41	18	32	12
10	26	30	28	82	146	345	74	41	36	18	30	14
11	25	30	30	80	138	283	73	42	38	18	30	15
12	24	31	97	109	155	242	72	39	39	18	30	15
13	24	30	64	327	157	218	70	38	40	17	30	16
14	27	29	36	998	148	206	69	40	49	18	27	17
15	30	29	33	509	133	182	69	37	50	17	23	18
16	48	29	31	1,440	141	168	66	45	46	18	28	18
17	52	27	30	1,600	265	161	60	63	36	19	29	18
18	41	27	30	893	185	155	58	76	24	21	28	19
19	30	28	230	621	144	150	61	74	19	18	28	23
20	28	28	235	486	134	146	56	97	18	26	25	22
21	26	28	785	673	129	142	54	102	13	29	23	21
22	28	28	227	972	126	138	48	108	15	25	24	22
23	28	27	120	1,990	113	135	46	101	18	20	36	21
24	28	27	131	2,160	106	132	38	100	18	24	37	19
25	34	27	267	1,280	97	126	37	99	18	23	31	19
26	30	27	143	944	94	117	36	75	23	23	20	20
27	29	27	93	1,550	90	112	35	69	32	23	11	21
28	40	27	66	878	104	108	36	68	50	23	14	21
29	30	28	55	566	------	104	40	66	44	23	17	21
30	30	29	49	492	------	100	39	63	33	22	11	22
31	29	------	44	386	------	96	------	63	------	21	9.5	------
TOTAL	901	873	3,072	19,409	4,941	5,809	1,891	1,881	1,070	659	760.5	515.6
MEAN	29.1	29.1	99.1	626	176	187	63.0	60.7	35.7	21.3	24.5	17.2
MAX	52	38	785	2,160	359	662	93	108	62	34	37	23
MIN	21	27	26	33	90	96	35	37	13	17	9.5	9.6
AC-FT	1,790	1,730	6,090	38,500	9,800	11,520	3,750	3,730	2,120	1,310	1,510	1,020

CAL YR 1969 TOTAL 48,505.4 MEAN 133 MAX 1,630 MIN 5.6 AC-FT 96,210
WTR YR 1970 TOTAL 41,782.1 MEAN 114 MAX 2,160 MIN 9.5 AC-FT 82,870

11352000 PIT RIVER NEAR BIEBER, CALIF.

LOCATION.--Lat 41°00'55", long 121°09'13", in NE¼SW¼ sec.27, T.37 N., R.7 E., Modoc County, on right bank 2.2 miles upstream from Spring Gulch and 7.4 miles south of Bieber.

DRAINAGE AREA.--2,475 sq mi, excluding Goose Lake basin.

PERIOD OF RECORD.--January 1904 to September 1908, December 1913 to August 1914, September 1921 to September 1926, November 1928 to September 1931, October 1951 to September 1970. Yearly figures only for some periods, published in WSP 1315-A.

GAGE.--Water-stage recorder. Datum of gage is 4,080.4 ft above mean sea level. Prior to November 1928, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--32 years (1903-8, 1921-26, 1928-31, 1951-70), 510 cfs (369,500 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Mar. 15, 1966	2,440	6.43	Many days	0
1967	Feb. 2, 1967	6,800	9.01	Oct. 1-14, 1966	0
1968	Feb. 23, 1968	7,100	9.13	Aug. 8, 10, 11, 1968	.25
1969	Jan. 23, 1969	6,300	8.80	Sept. 1, 2, 1969	.36
1970	Jan. 24, 1970	23,000	13.92	Aug. 16, 17, 22, 1970	.63

Period of record: Maximum discharge, 33,800 cfs Mar. 19, 1907 (gage height, 16.7 ft), from rating curve extended above 11,000 cfs; no flow at times in some years.

REMARKS.--Records good except those for winter periods and those for period of no gage-height record Jan. 29 to Mar. 13, 1969, which are fair. Flow regulated by many small reservoirs (total capacity now, 204,000 acre-ft). Diversions for irrigation of 33,000 acres between stations near Canby and near Bieber. See schematic diagram of Pit and McCloud River basins elsewhere in this report.

REVISIONS (WATER YEARS).--WSP 1285: 1907, 1930. WSP 1315-A: 1914(M). WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	86	142	74	120	258	580	14	4.0	2.3		
2	66	86	137	80	117	250	550	22	11	2.5		
3	73	86	139	92	123	231	520	14	13	2.0		
4	76	90	137	108	132	188	490	12	5.8	1.6		
5	53	86	139	122	142	152	442	23	2.9	1.2		
6	47	86	135	136	170	294	394	12	2.5	.90		
7	34	90	168	153	250	591	370	7.0	4.2	.80		
8	22	95	168	268	220	1,280	362	6.1	3.7	.80		
9	62	139	204	388	200	1,820	366	6.1	3.5	.80		
10	83	116	135	491	190	2,040	422	5.8	3.1	11		
11	90	86	126	385	181	2,300	615	5.6	3.5	18		
12	177	104	126	310	136	2,020	858	5.3	3.5	11		
13	106	116	128	250	120	1,900	935	5.3	1.8	4.9		
14	81	215	122	214	111	2,300	823	5.3	2.0	2.7		
15	62	254	122	190	104	2,400	694	7.0	4.9	2.0		
16	52	265	82	188	101	2,020	565	6.1	14	1.7		
17	63	245	72	180	106	1,430	478	6.4	5.8	1.7		
18	75	231	70	170	111	1,100	438	5.1	11	2.2		
19	78	245	72	150	130	1,000	422	5.3	14	2.3		
20	78	237	74	137	148	1,100	394	5.1	14	2.0		
21	81	282	78	108	170	935	358	2.9	26	1.6		
22	102	254	76	111	214	858	320	2.2	12	1.1		
23	122	199	80	118	280	788	292	1.2	3.3	.80		
24	128	207	67	114	375	625	270	.80	1.1	.50		
25	110	228	74	111	460	605	216	1.1	.60	.30		
26	102	207	78	112	395	630	171	2.7	13	.20		
27	100	194	80	109	320	620	164	8.5	4.9	0		
28	97	182	94	112	265	610	57	3.3	3.7	0		
29	93	160	78	105	------	595	19	2.0	3.1	0		
30	95	135	79	110	------	600	13	1.8	2.3	0		
31	90	------	77	116	------	590	------	3.7	------	0		------
TOTAL	2,555	5,006	3,359	5,312	5,391	32,130	12,598	208.70	198.20	76.90	0	0
MEAN	82.4	167	108	171	193	1,036	420	6.73	6.61	2.48	0	0
MAX	177	282	204	491	460	2,400	935	23	26	18	0	0
MIN	22	86	67	74	101	152	13	.80	.60	0	0	0
AC-FT	5,070	9,930	6,660	10,540	10,690	63,730	24,990	414	393	153	0	0

CAL YR 1965 TOTAL 256,211.90 MEAN 702 MAX 6,400 MIN 2.0 AC-FT 508,200
WTR YR 1966 TOTAL 66,834.80 MEAN 183 MAX 2,400 MIN 0 AC-FT 132,600

11352000 PIT RIVER NEAR BIEBER, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	9.2	590	112	4,230	1,070	670	1,610	1,070	16	2.0	2.5
2	0	7.3	615	113	5,990	1,250	700	1,410	1,130	43	1.8	2.7
3	0	5.6	767	114	5,400	1,010	676	1,320	1,130	334	1.7	11
4	0	6.4	978	115	4,180	760	610	1,270	1,160	278	1.3	17
5	0	4.9	1,150	110	2,880	658	565	1,260	1,150	212	1.1	7.6
6	0	7.3	1,630	96	1,930	585	545	1,230	1,110	231	.80	15
7	0	7.3	1,220	90	1,440	580	550	1,210	1,120	209	.70	12
8	0	27	893	103	1,190	610	565	1,240	1,050	179	.60	6.4
9	0	15	652	110	1,070	605	625	1,340	1,000	138	.60	13
10	0	8.2	482	120	1,030	610	730	1,610	1,140	89	.60	8.8
11	0	60	470	122	994	712	712	2,020	1,160	47	.60	6.8
12	0	59	478	124	1,090	788	700	2,200	1,130	32	.60	3.1
13	0	100	600	126	1,260	694	730	2,110	1,070	21	.50	.70
14	0	64	986	127	1,490	736	837	1,950	949	15	.40	.30
15	3.0	62	1,040	127	1,320	748	1,130	1,750	872	41	.80	.20
16	6.4	76	736	125	1,000	1,400	1,480	1,560	781	54	1.3	.10
17	3.7	90	520	123	900	2,480	1,390	1,390	700	58	.80	.80
18	2.5	93	410	118	949	2,930	1,320	1,360	625	36	.70	2.0
19	2.0	146	330	113	1,070	2,510	1,380	1,370	570	48	.60	1.7
20	1.8	187	284	108	986	2,090	1,360	1,420	442	34	.50	2.3
21	1.7	330	250	96	823	1,640	1,130	1,480	458	18	.40	2.7
22	2.0	309	216	90	682	1,390	1,010	1,550	418	14	.40	1.8
23	2.5	257	193	85	658	1,240	1,030	1,510	366	20	.50	1.8
24	6.9	204	180	95	718	1,190	1,360	1,370	346	24	.60	3.8
25	28	171	140	120	830	1,060	1,920	1,270	264	16	.70	1.7
26	16	122	112	150	809	907	2,410	1,150	215	15	1.0	14
27	18	120	105	200	809	795	2,460	1,100	27	20	1.0	86
28	11	144	100	295	879	730	2,240	1,100	21	5.2	.80	171
29	11	323	103	536	------	688	2,120	1,070	15	5.2	.80	128
30	14	490	106	1,510	------	664	1,850	1,070	23	4.5	.80	69
31	14	------	110	2,550	------	658	------	1,070	------	2.9	1.8	------
TOTAL	144.5	3,505.2	16,446	8,023	46,607	33,788	34,805	44,370	21,512	2,259.8	26.80	593.80
MEAN	4.66	117	531	259	1,665	1,090	1,160	1,431	717	72.9	.86	19.8
MAX	28	490	1,630	2,550	5,990	2,930	2,460	2,200	1,160	334	2.0	171
MIN	0	4.9	100	85	658	580	545	1,070	15	2.9	.40	.10
AC-FT	287	6,950	32,620	15,910	92,440	67,020	69,040	88,010	42,670	4,480	53	1,180

CAL YR 1966 TOTAL 76,010.50 MEAN 208 MAX 2,400 MIN 0 AC-FT 150,800
WTR YR 1967 TOTAL 212,081.10 MEAN 581 MAX 5,990 MIN 0 AC-FT 420,700

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	56	117	101	307	1,400	306	9.2	103	4.8	1.0	6.4
2	42	56	111	107	374	1,130	312	7.2	84	3.8	.92	10
3	96	68	126	105	450	935	323	22	69	2.9	.70	42
4	111	62	126	102	410	823	320	42	58	2.2	.56	49
5	138	57	247	110	418	730	323	34	62	1.5	.42	17
6	140	58	215	108	410	694	323	15	110	1.0	.36	8.8
7	128	57	180	115	404	658	316	7.6	136	2.0	.30	6.4
8	122	58	146	122	400	605	302	4.5	89	9.6	.25	22
9	124	61	143	129	428	550	288	5.0	72	7.2	.30	19
10	122	63	141	138	465	500	278	4.2	79	8.4	.25	17
11	136	66	136	110	520	458	257	7.1	95	18	.25	28
12	101	69	131	120	580	426	218	60	61	14	.30	19
13	89	79	138	140	555	426	215	30	32	7.6	.42	10
14	76	80	136	164	570	458	228	76	54	4.8	.63	6.0
15	66	96	129	230	605	478	218	176	33	3.8	.77	5.8
16	65	87	124	440	640	478	163	193	21	3.1	.92	5.5
17	96	76	121	620	670	535	79	338	219	2.7	1.3	5.5
18	110	82	120	560	1,040	605	76	218	122	2.2	1.3	8.0
19	77	90	119	515	1,680	560	74	188	58	1.8	2.5	5.9
20	65	103	120	497	2,820	500	77	182	35	1.6	3.8	4.8
21	76	106	136	495	4,350	458	45	161	22	2.2	2.9	6.0
22	61	108	146	490	6,230	418	26	142	18	1.7	2.5	5.5
23	74	111	154	415	6,920	382	50	130	16	1.3	1.8	35
24	74	154	163	387	6,900	362	82	158	16	1.0	1.8	55
25	71	176	154	363	6,040	362	95	154	15	.92	2.7	27
26	65	132	141	330	4,740	382	29	73	14	.92	26	18
27	61	117	137	282	3,550	374	20	17	9.2	1.0	21	9.2
28	58	119	136	292	2,720	362	16	84	6.0	.84	24	22
29	40	142	123	300	1,960	350	14	338	5.0	.70	31	43
30	59	126	110	294	------	334	14	334	5.0	.77	14	14
31	61	------	97	280	------	320	------	179	------	.92	10	------
TOTAL	2,657	2,715	4,323	8,461	57,156	17,053	5,087	3,388.8	1,718.2	115.27	154.95	530.8
MEAN	85.7	90.5	139	273	1,971	550	170	109	57.3	3.72	5.00	17.7
MAX	140	176	247	620	6,920	1,400	323	338	219	18	31	55
MIN	40	56	97	101	307	320	14	4.2	5.0	.70	.25	4.8
AC-FT	5,270	5,390	8,570	16,780	113,400	33,820	10,090	6,720	3,410	229	307	1,050

CAL YR 1967 TOTAL 201,680.40 MEAN 553 MAX 5,990 MIN .10 AC-FT 400,000
WTR YR 1968 TOTAL 103,360.02 MEAN 282 MAX 6,920 MIN .25 AC-FT 205,000

11352000 PIT RIVER NEAR BIEBER, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	63	182	238	1,380	540	4,900	1,520	264	284	2.7	.36
2	5.8	65	166	212	1,200	570	5,040	1,460	225	185	2.7	.36
3	12	72	156	199	1,050	600	4,850	1,360	58	168	2.5	.42
4	12	65	146	231	920	570	4,230	1,300	26	152	2.2	.56
5	9.2	75	151	326	770	545	3,610	1,300	27	134	2.2	.56
6	10	75	225	510	700	525	3,260	1,230	34	111	2.0	.49
7	5.8	77	182	658	615	570	2,970	1,130	34	108	1.8	.70
8	3.8	74	193	700	550	540	2,720	1,040	17	100	1.6	1.5
9	69	72	202	450	490	525	2,460	994	24	94	1.3	1.1
10	46	87	222	375	700	510	2,220	900	44	90	1.2	.92
11	32	108	350	330	1,750	490	2,000	851	32	86	1.0	1.1
12	40	171	495	400	2,750	475	1,880	879	36	84	.92	5.2
13	62	168	362	510	3,500	470	1,820	949	146	86	.77	5.5
14	75	163	309	1,200	3,700	490	1,800	1,000	406	89	.63	4.5
15	76	202	278	1,800	3,350	486	1,810	1,120	490	82	.63	3.8
16	65	199	270	1,850	2,800	550	1,740	1,150	530	68	.70	4.5
17	60	179	265	1,650	2,300	788	1,620	1,110	635	50	.92	5.5
18	84	209	265	1,250	1,880	1,380	1,620	1,080	550	26	1.1	4.8
19	106	222	240	720	1,620	1,970	1,640	1,030	478	16	.92	4.2
20	79	212	215	1,350	1,380	2,270	1,640	994	462	17	.77	4.8
21	69	302	188	2,900	1,100	2,210	1,640	970	510	24	.63	5.5
22	77	312	212	4,350	960	2,200	1,620	830	462	29	.63	138
23	89	260	199	5,580	820	2,480	1,620	767	414	26	.70	166
24	77	288	222	5,900	760	2,930	1,790	736	378	20	.77	124
25	69	288	163	4,900	700	3,250	2,010	724	323	12	.77	122
26	66	244	171	3,800	650	3,540	2,080	706	338	8.4	.70	132
27	65	228	196	3,100	610	3,700	1,930	646	270	7.2	.70	98
28	78	212	218	2,650	570	3,880	1,780	610	171	5.8	.70	65
29	104	199	309	2,300	------	4,150	1,630	585	188	4.2	.63	59
30	84	188	260	2,000	------	4,420	1,550	555	267	3.8	.49	42
31	68	------	228	1,720	------	4,590	------	418	------	3.5	.42	------
TOTAL	1,704.6	5,079	7,240	54,159	39,575	52,214	71,480	29,944	7,839	2,173.9	35.70	1,002.37
MEAN	55.0	169	234	1,747	1,413	1,684	2,383	966	261	70.1	1.15	33.4
MAX	106	312	495	5,900	3,700	4,590	5,040	1,520	635	284	2.7	166
MIN	3.8	63	146	199	490	470	1,550	418	17	3.5	.42	.36
AC-FT	3,380	10,070	14,360	107,400	78,500	103,600	141,800	59,390	15,550	4,310	71	1,990

CAL YR 1968 TOTAL 107,688.62 MEAN 294 MAX 6,920 MIN .25 AC-FT 213,600
WTR YR 1969 TOTAL 272,446.57 MEAN 746 MAX 5,900 MIN .36 AC-FT 540,400

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	111	102	277	3,360	816	434	414	222	418	4.8	2.7
2	113	130	107	258	2,770	1,190	422	458	450	386	4.0	2.7
3	98	126	107	200	2,260	1,250	406	458	364	336	3.1	2.5
4	117	111	107	189	1,910	1,190	386	466	302	291	2.5	2.3
5	93	134	120	158	1,800	1,120	364	570	234	280	2.2	2.0
6	71	154	116	149	1,680	1,070	344	645	179	288	1.8	1.5
7	61	200	116	138	1,550	1,100	316	354	147	151	1.6	2.2
8	69	171	132	140	1,460	1,840	330	368	107	132	1.5	2.0
9	62	161	151	145	1,320	2,880	330	422	114	120	1.3	15
10	66	163	163	205	1,190	2,980	326	466	112	63	1.0	3.1
11	71	151	163	364	1,070	2,740	333	550	105	103	.92	1.8
12	62	143	212	486	1,020	2,590	336	646	96	107	.92	2.2
13	57	138	478	985	1,070	2,390	326	712	168	120	.84	2.2
14	42	138	418	2,190	1,140	2,110	336	781	270	158	.77	2.0
15	77	136	358	3,610	1,080	1,830	358	809	270	81	.70	2.7
16	166	138	330	4,610	1,000	1,620	372	748	237	69	.63	14
17	228	132	246	5,820	1,440	1,450	382	742	461	45	.63	8.8
18	202	140	210	8,440	1,880	1,260	368	630	580	24	.77	10
19	179	128	246	7,070	1,640	1,080	264	530	418	16	.70	17
20	156	132	674	5,620	1,310	970	267	495	430	14	.77	16
21	228	158	1,140	4,620	1,110	900	252	525	375	14	.70	64
22	277	128	2,170	4,230	994	844	274	555	361	12	.63	132
23	202	124	2,420	5,620	942	788	288	545	364	9.2	.77	151
24	166	122	1,780	14,200	914	736	288	478	298	7.2	1.3	116
25	166	120	1,390	17,700	844	694	260	418	243	6.8	1.5	171
26	151	128	1,310	13,400	774	630	154	172	197	6.4	1.6	116
27	147	136	1,230	11,700	712	570	267	9.2	168	7.2	4.2	93
28	128	120	942	10,200	670	525	350	26	154	7.2	4.8	60
29	120	111	610	7,520	------	495	361	100	298	6.4	4.5	34
30	124	96	446	5,900	------	466	386	30	333	5.8	4.2	24
31	116	------	350	4,390	------	450	------	51	------	5.2	3.1	------
TOTAL	3,889	4,080	18,344	140,534	38,910	40,574	9,880	14,173.2	8,057	3,289.4	58.75	1,073.7
MEAN	125	136	592	4,533	1,390	1,309	329	457	269	106	1.90	35.8
MAX	277	200	2,420	17,700	3,360	2,980	434	809	580	418	4.8	171
MIN	42	96	102	138	670	450	154	9.2	96	5.2	.63	1.5
AC-FT	7,710	8,090	36,390	278,700	77,180	80,480	19,600	28,110	15,980	6,520	117	2,130

CAL YR 1969 TOTAL 284,735.97 MEAN 780 MAX 5,900 MIN .36 AC-FT 564,800
WTR YR 1970 TOTAL 282,863.05 MEAN 775 MAX 17,700 MIN .63 AC-FT 561,100

11352500 HORSE CREEK AT LITTLE VALLEY, NEAR PITTVILLE, CALIF.

LOCATION.--Lat 40°53'56", long 121°10'23", in NE¼ sec.15, T.35 N., R.7 E., Lassen County, on left bank 100 ft downstream from railroad bridge, 0.5 mile northeast of Little Valley, and 13 miles southeast of Pittville.

DRAINAGE AREA.--237 sq mi.

PERIOD OF RECORD.--December 1928 to September 1931, October 1959 to September 1967 (discontinued).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 4,150 ft (from topographic map). Prior to 1959, at present site at datum 0.1 ft lower.

AVERAGE DISCHARGE.--10 years (1929-31, 1959-67), 22.6 cfs (16,360 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-67 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 8, 1966	69	2.39	Aug. 28, 1966	2.1
1967	Jan. 29, 1967	522	3.67	Aug. 18-22, 1967	4.5

Period of record: Maximum discharge, 5,290 cfs Oct. 14, 1962 (gage height, 5.79 ft), from rating curve extended above 210 cfs; minimum daily, 2.1 cfs Aug. 28, 1966.

REMARKS.--Diversions for irrigation above station. See schematic diagram for Pit and McCloud River basins elsewhere in this report.

COOPERATION.--Records furnished by California Department of Water Resources and reviewed by Geological Survey.

REVISIONS.--WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	9.2	12	10	12	14	14	9.6	9.7	8.8	5.4	3.1
2	11	8.7	12	11	12	14	8.0	7.9	11	9.8	5.1	3.4
3	9.9	8.4	12	11	13	13	11	8.6	11	9.5	5.1	3.1
4	7.9	8.6	11	13	14	13	12	9.4	12	9.8	4.8	3.1
5	11	9.0	11	16	16	13	13	11	12	9.5	4.5	3.1
6	11	9.6	11	31	16	14	12	9.8	12	9.1	4.2	2.9
7	11	11	11	47	14	13	12	10	12	8.9	4.2	2.9
8	10	12	11	60	14	13	11	11	11	8.9	3.6	2.7
9	10	11	11	45	13	12	12	11	11	8.4	3.6	2.9
10	10	11	11	28	13	13	15	11	11	7.2	3.6	3.1
11	9.8	11	11	20	13	16	21	9.5	11	7.6	3.6	3.1
12	10	12	11	18	13	18	27	9.5	9.5	7.6	3.6	3.6
13	11	12	11	16	13	17	21	9.2	8.6	7.6	3.4	4.2
14	11	12	10	15	13	17	16	9.0	8.0	7.6	3.1	4.2
15	11	12	9.5	18	13	17	14	9.0	7.6	7.6	3.1	3.9
16	16	12	9.0	19	13	17	12	8.4	7.8	7.6	2.9	3.9
17	16	12	9.0	16	13	17	11	8.6	8.1	7.6	2.9	3.6
18	13	17	8.6	14	13	17	7.6	8.8	7.5	7.6	3.1	5.7
19	11	17	9.0	13	13	16	6.8	8.8	5.0	7.6	2.9	6.5
20	11	15	8.5	13	14	16	9.4	8.7	4.6	5.1	2.9	6.5
21	11	14	8.9	13	17	14	9.3	8.3	4.9	5.1	2.9	6.1
22	11	13	9.1	13	18	13	8.4	7.3	5.1	5.7	2.5	6.1
23	11	14	8.9	14	17	12	8.2	6.4	6.1	5.7	2.3	5.4
24	11	17	8.9	13	17	12	7.6	5.8	7.8	5.4	2.3	6.1
25	11	18	9.4	12	16	11	7.3	5.7	8.0	5.1	2.3	6.8
26	11	16	9.3	12	16	11	6.6	5.6	8.0	5.1	2.3	8.4
27	11	15	9.5	12	14	9.5	5.7	4.9	8.1	5.4	2.3	8.0
28	11	14	10	12	14	10	5.5	4.5	8.5	5.4	2.1	8.0
29	10	13	10	12	------	13	6.3	5.6	8.4	5.4	2.3	8.0
30	9.6	12	9.8	12	------	14	7.7	7.7	9.0	5.1	2.5	8.0
31	8.8	------	10	12	------	15	------	7.8	------	5.4	2.9	------
TOTAL	339.0	376.5	313.4	571	397	434.5	338.4	258.4	264.3	222.2	102.3	146.4
MEAN	10.9	12.6	10.1	18.4	14.2	14.0	11.3	8.34	8.81	7.17	3.30	4.88
MAX	16	18	12	60	18	18	27	11	12	9.8	5.4	8.4
MIN	7.9	8.4	8.5	10	12	9.5	5.5	4.5	4.6	5.1	2.1	2.7
AC-FT	672	747	622	1,130	787	862	671	513	524	441	203	290

CAL YR 1965 TOTAL 20,189.7 MEAN 55.3 MAX 668 MIN 3.9 AC-FT 40,050
WTR YR 1966 TOTAL 3,763.4 MEAN 10.3 MAX 60 MIN 2.1 AC-FT 7,460

11352500 HORSE CREEK AT LITTLE VALLEY, NEAR PITTVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	11	14	11	212	22	42	133	96	11	7.2	7.2
2	8.4	11	28	11	119	21	46	115	90	10	7.2	6.8
3	6.1	11	34	11	85	20	42	106	72	11	7.6	6.5
4	5.1	11	37	11	72	20	36	102	64	10	7.6	6.8
5	6.8	10	37	12	63	19	34	110	66	10	7.2	6.8
6	7.6	12	35	11	51	18	32	117	61	11	6.8	6.5
7	9.8	14	28	10	49	18	35	119	57	11	6.8	6.5
8	10	14	21	10	45	18	37	141	56	12	6.8	6.1
9	8.9	13	18	11	41	18	36	176	66	11	6.8	6.1
10	8.9	14	18	11	40	19	36	239	69	11	5.8	5.8
11	8.4	13	20	11	38	25	35	260	68	11	5.4	6.1
12	8.4	13	18	12	37	29	37	249	63	10	6.8	6.1
13	8.4	13	19	13	35	23	35	222	64	10	7.2	5.8
14	9.8	12	24	13	34	24	36	203	63	11	6.8	5.8
15	13	12	22	13	34	32	42	187	58	10	6.8	7.6
16	12	16	18	13	32	178	39	176	51	11	6.5	9.3
17	12	18	16	13	32	167	35	167	46	8.9	5.4	11
18	13	15	14	12	32	102	44	164	40	5.4	4.5	13
19	13	14	14	12	30	74	53	156	39	5.8	4.5	12
20	12	21	14	13	30	58	63	146	42	5.8	4.5	13
21	12	26	14	18	30	56	63	136	39	6.1	4.5	13
22	11	24	13	30	29	53	57	129	37	6.1	4.5	12
23	11	19	12	27	28	53	57	122	27	5.8	4.8	11
24	11	14	12	24	27	54	76	108	20	5.4	4.8	11
25	10	13	12	22	25	47	129	94	16	5.1	5.4	11
26	11	13	11	20	24	42	115	86	14	5.4	6.1	11
27	13	14	11	22	24	38	122	85	13	5.8	7.6	10
28	14	16	10	72	23	38	136	76	11	6.1	7.6	9.8
29	12	17	11	318	------	40	143	68	10	6.8	6.8	9.8
30	12	17	11	389	------	41	148	58	10	6.1	7.2	9.3
31	11	------	11	327	------	38	------	61	------	6.5	7.2	------
TOTAL	318.0	441	577	1,503	1,321	1,405	1,841	4,311	1,428	262.1	194.7	262.7
MEAN	10.3	14.7	18.6	48.5	47.2	45.3	61.4	139	47.6	8.45	6.28	8.76
MAX	14	26	37	389	212	178	148	260	96	12	7.6	13
MIN	5.1	10	10	10	23	18	32	58	10	5.1	4.5	5.8
AC-FT	631	875	1,140	2,980	2,620	2,790	3,650	8,550	2,830	520	386	521

CAL YR 1966 TOTAL 4,070.5 MEAN 11.2 MAX 60 MIN 2.1 AC-FT 8,070
WTR YR 1967 TOTAL 13,864.5 MEAN 38.0 MAX 389 MIN 4.5 AC-FT 27,500

11352900 BEAVER CREEK NEAR HAT CREEK, CALIF.

LOCATION.--Lat 40°49'47", long 121°14'54", in NE¼NE¼ sec.12, T.34 N., R.6 E., Lassen County, Lassen National Forest, on right bank at culvert on Forest Service Road 35N10, 13.6 miles east of town of Hat Creek and 15 miles south of Pittville.

DRAINAGE AREA.--23.2 sq mi.

PERIOD OF RECORD.--November 1969 to September 1970.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 4,980 ft above mean sea level (from topographic map).

EXTREMES.--Maximum discharge during period, 349 cfs Jan. 23 (gage height, 5.89 ft), from rating curve extended above 9.0 cfs on basis of theoretical computation of culvert flow; minimum daily. 0.40 cfs for many days in July and August.

REMARKS.--Records good below 20 cfs, fair above. No known diversion above station. Flow of stream is sustained by springs. Rainfall data collected at this site are available in files of the district office.

DISCHARGE, IN CUBIC FEET PER SECOND, NOVEMBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			.50	.45	13	11	2.4	1.6	.43	.45	.41	.47
2			.45	.45	12	10	2.4	1.1	.44	.45	.40	.47
3			.45	.45	14	8.7	2.2	.81	.51	.44	.40	.47
4			.45	.45	14	7.9	2.1	.70	.45	.45	.40	.49
5			.45	.45	14	8.8	1.9	.61	.45	.44	.40	.49
6			.45	.45	13	16	1.8	.61	.44	.44	.40	.48
7			.45	.45	12	20	1.7	.60	.44	.43	.41	.47
8			.45	.45	12	29	1.6	.86	.48	.40	.41	.47
9			.45	1.7	11	16	1.6	1.0	.49	.42	.40	.47
10			.45	3.8	9.0	14	1.5	1.0	.66	.43	.40	.47
11			.49	6.0	8.3	11	1.3	1.0	.48	.43	.40	.47
12		.49	12	8.4	17	10	1.3	1.6	.51	.42	.40	.42
13		.49	2.9	16	15	10	1.8	1.9	.55	.41	.40	.42
14		.49	.84	30	11	10	2.9	.98	.60	.40	.41	.42
15		.52	.71	17	9.8	8.3	3.2	.62	.49	.41	.40	.42
16		.55	.56	70	7.3	8.0	3.3	.53	.50	.40	.40	.42
17		.51	.49	25	9.9	6.8	2.6	.50	.48	.41	.41	.42
18		.53	.53	18	8.7	5.9	1.9	.48	.46	.40	.42	.42
19		.55	13	17	7.5	5.7	2.1	.48	.45	.40	.42	.42
20		.53	7.9	13	7.8	5.6	2.0	.48	.44	.41	.43	.42
21		.52	28	31	10	5.0	1.9	.47	.48	.40	.43	.42
22		.52	5.0	34	11	4.7	1.5	.47	.46	.40	.44	.42
23		.52	1.9	100	9.5	4.3	1.3	.47	.44	.40	.45	.42
24		.51	2.9	85	8.8	4.1	1.3	.46	.43	.40	.45	.42
25		.50	5.2	31	8.6	3.8	1.2	.46	.45	.40	.45	.42
26		.50	3.5	34	9.5	3.7	1.9	.46	.46	.40	.45	.42
27		.50	2.2	55	8.2	3.2	3.1	.47	.68	.40	.45	.42
28		.50	1.3	23	7.8	3.2	2.9	.46	2.1	.40	.46	.42
29		.50	1.0	19	------	3.0	3.1	.46	1.2	.40	.47	.42
30		.50	.70	18	------	2.9	2.5	.46	.50	.41	.46	.42
31		------	.50	15	------	2.6	------	.44	------	.41	.47	------
TOTAL			96.17	674.50	299.7	263.2	62.3	22.54	16.95	12.86	13.10	13.20
MEAN			3.10	21.8	10.7	8.49	2.08	.73	.57	.41	.42	.44
MAX			28	100	17	29	3.3	1.9	2.1	.45	.47	.49
MIN			.45	.45	7.3	2.6	1.2	.44	.43	.40	.40	.42
AC-FT			191	1,340	594	522	124	45	34	26	26	26

11353600 DRY CREEK NEAR DANA, CALIF.

LOCATION.--Lat 41°08'21", long 121°38'24", in SE¼SE¼ sec.8, T.38 N., R.3 E., Shasta County, at culvert on State Highway 89, 4.5 miles northwest of Dana.

DRAINAGE AREA.--6.46 sq mi.

PERIOD OF RECORD.--Annual maximums, water years 1963-66. October 1966 to September 1970.

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 4,040 ft (from topographic map). July 24, 1962, to Sept. 23, 1966, crest-stage gage at present site and datum.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	May 8, 1966	70	3.83	-	-
1967	May 9, 1967	63	3.68	Long periods	0
1968	Feb. 23, 1968	30	3.20	do.	0
1969	Apr. 22, 1969	60	3.64	do.	0
1970	Jan. 23, 1970	557	9.37	do.	0

Period of record: Maximum discharge, 702 cfs Dec. 22, 1964 (gage height, 10.69 ft), from rating curve extended above 120 cfs on basis of computation of flow through culvert at gage heights 5.02 and 10.69 ft; no flow for several months in each year.

REMARKS.--Records fair. No regulation or diversion above station. Precipitation records are available in files of the district office.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	3.6	1.2	8.8	4.3	10	9.5	15	2.2	.40	.10
2		0	8.6	1.2	7.5	4.2	9.8	10	13	2.0	.40	.10
3		0	6.2	1.1	6.6	4.2	9.5	12	12	1.9	.40	0
4		0	17	1.0	6.1	4.0	8.9	14	10	1.8	.30	0
5		0	25	1.0	5.8	3.9	9.1	16	9.3	1.7	.30	0
6		0	9.3	1.0	5.6	3.9	9.3	15	9.1	1.5	.30	0
7		0	6.6	.80	5.4	3.9	9.8	29	8.9	1.4	.30	0
8		0	4.8	.80	5.1	3.8	10	44	8.2	1.3	.30	0
9		0	4.0	.80	4.9	3.8	11	56	8.2	1.2	.30	0
10		0	3.6	.80	4.9	3.8	12	52	7.6	1.2	.20	0
11		0	3.2	.80	4.8	3.7	11	40	7.1	1.1	.20	0
12		0	3.2	.80	4.9	3.7	10	34	6.7	1.0	.20	0
13		0	4.8	.80	5.6	3.7	11	33	6.4	1.0	.20	0
14		0	4.6	.80	5.9	3.9	12	34	5.9	.90	.20	0
15		0	3.8	.80	5.7	4.2	10	37	5.6	.80	.20	0
16		0	3.3	.80	5.4	8.9	10	44	5.1	.80	.20	0
17		0	3.1	.80	5.4	12	9.8	51	4.9	.80	.20	0
18		0	2.9	.80	5.4	18	9.1	54	4.5	.80	.20	0
19		0	2.7	.80	5.1	15	8.5	54	4.9	.70	.20	0
20		0	2.5	.90	4.9	15	7.8	49	4.2	.60	.20	0
21		1.0	2.4	1.1	4.6	15	7.6	46	4.0	.60	.20	0
22		1.1	2.2	3.8	4.6	17	7.6	44	3.8	.60	.20	0
23		.60	2.0	3.6	4.6	31	7.8	41	3.5	.50	.10	0
24		.40	1.9	3.3	4.6	28	8.4	36	3.3	.50	.10	0
25		.30	1.8	3.0	4.5	22	9.3	31	3.1	.50	.10	0
26		.30	1.7	2.9	4.3	19	9.3	28	3.0	.50	.10	0
27		.20	1.6	4.4	4.3	17	9.5	24	2.7	.40	.10	0
28		.40	1.4	8.2	4.3	16	9.5	24	2.6	.40	.10	0
29		2.0	1.3	16	------	14	9.5	21	2.4	.40	.10	0
30		1.9	1.4	13	------	13	9.3	18	2.3	.40	.10	0
31		------	1.3	11	------	12	------	16	------	.40	.10	------
TOTAL	0	8.20	141.8	88.10	149.6	331.9	286.4	1,016.5	187.3	29.90	6.50	.20
MEAN	0	.27	4.57	2.84	5.34	10.7	9.55	32.8	6.24	.96	.21	.007
MAX	0	2.0	25	16	8.8	31	12	56	15	2.2	.40	.10
MIN	0	0	1.3	.80	4.3	3.7	7.6	9.5	2.3	.40	.10	0
AC-FT	0	16	281	175	297	658	568	2,020	372	59	13	.4

WTR YR 1967 TOTAL 2,246.40 MEAN 6.15 MAX 56 MIN 0 AC-FT 4,460

11353600 DRY CREEK NEAR DANA, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	.38	14	25	6.9	3.1	.56	.08	
2				0	.44	12	22	7.0	3.0	.56	.06	
3				0	.56	12	19	7.1	2.9	.50	.05	
4				0	.76	13	18	7.2	2.9	.44	.03	
5				0	.70	17	18	6.5	3.0	.44	.02	
6				0	.63	15	17	6.0	3.2	.44	.01	
7				0	.63	13	16	5.6	2.6	.40	0	
8				0	.63	12	15	5.3	2.4	.38	0	
9				0	.70	10	16	5.0	2.2	.36	0	
10				0	.70	9.3	17	4.8	2.0	.34	0	
11				0	.76	8.7	19	4.9	2.0	.36	0	
12				0	.82	8.7	18	5.2	1.9	.40	0	
13				0	.82	8.0	16	4.6	1.8	.32	0	
14				2.3	.82	8.0	14	4.0	1.8	.28	0	
15				2.6	.76	9.1	14	3.9	1.6	.26	0	
16				2.4	.76	11	13	3.8	1.5	.26	0	
17				2.0	1.8	9.1	12	3.8	1.4	.26	0	
18				1.5	3.9	7.6	10	4.0	1.3	.26	0	
19				.82	4.5	7.3	10	5.4	1.2	.26	0	
20				.70	6.7	7.1	9.5	8.4	1.1	.21	0	
21				.63	20	7.1	9.1	5.6	1.0	.18	0	
22				.50	21	7.3	8.7	5.6	.96	.18	0	
23				.44	27	8.4	8.4	5.4	.89	.18	0	
24				.50	24	9.8	8.0	4.9	.82	.16	0	
25				.50	18	19	7.6	4.9	.82	.16	0	
26				.50	19	18	7.4	4.5	.76	.16	0	
27				.44	17	17	7.2	4.0	.70	.14	0	
28				.44	15	18	7.1	3.9	.70	.14	0	
29				.44	15	20	7.0	3.6	.63	.14	0	
30				.44	------	22	6.9	3.5	.63	.12	0	
31		------		.44	------	25	------	3.3	------	.10	0	------
TOTAL	0	0	0	17.59	203.77	383.5	395.9	158.6	50.81	8.95	.25	0
MEAN	0	0	0	.57	7.03	12.4	13.2	5.12	1.69	.29	.008	0
MAX	0	0	0	2.6	27	25	25	8.4	3.2	.56	.08	0
MIN	0	0	0	0	.38	7.1	6.9	3.3	.63	.10	0	0
AC-FT	0	0	0	35	404	761	785	315	101	18	.5	0

CAL YR 1967 TOTAL 2,096.40 MEAN 5.74 MAX 56 MIN 0 AC-FT 4,160
WTR YR 1968 TOTAL 1,219.37 MEAN 3.33 MAX 27 MIN 0 AC-FT 2,420

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	.50	7.8	4.5	40	34	5.7	1.5	.32	
2			0	.50	6.9	4.3	37	31	5.4	1.3	.32	
3			0	.50	6.6	4.2	31	29	5.1	1.2	.32	
4			0	.40	6.6	3.9	29	26	4.9	1.2	.26	
5			0	.40	6.0	3.9	41	27	4.8	1.1	.26	
6			0	.40	5.6	3.6	33	29	4.5	1.1	.26	
7			0	.44	5.2	3.5	29	31	4.2	1.0	.26	
8			0	.44	5.2	3.3	28	34	4.3	.96	.21	
9			0	.50	7.6	3.3	28	37	4.6	.82	.21	
10			5.3	.50	8.4	3.2	29	37	4.3	.76	.21	
11			4.8	.50	16	3.1	31	36	4.8	.70	.21	
12			2.6	1.4	16	2.9	35	35	4.2	.70	.21	
13			2.0	11	12	2.7	35	32	3.8	.70	.21	
14			1.9	8.2	11	2.6	32	29	3.6	.63	.18	
15			2.2	6.9	10	2.5	31	24	3.5	.56	.16	
16			1.8	5.2	9.8	2.7	33	20	3.3	.56	.14	
17			1.5	4.3	8.7	3.2	40	18	3.2	.50	.14	
18			1.3	3.9	7.8	3.6	47	16	3.0	.50	.12	
19			1.2	4.9	7.3	4.0	44	15	3.1	.44	.10	
20			1.1	12	6.9	4.2	44	13	2.7	.44	.10	
21			1.0	33	6.4	4.5	48	12	2.6	.44	.08	
22			.90	20	5.9	4.7	53	11	2.4	.44	.06	
23			.90	14	5.9	5.1	53	10	2.4	.44	.04	
24			.80	11	5.6	5.4	42	9.3	2.3	.44	.03	
25			.80	9.8	5.6	6.2	37	8.7	2.0	.38	.02	
26			.70	18	5.1	8.7	34	8.0	2.0	.38	.02	
27			.70	14	4.8	11	33	7.5	1.9	.32	.01	
28			.60	12	4.8	15	34	6.9	1.8	.32	0	
29			.60	9.8	------	21	37	6.6	1.7	.32	0	
30			.60	9.5	------	28	35	6.4	1.6	.32	0	
31		------	.50	9.3	------	38	------	5.9	------	.32	0	------
TOTAL	0	0	33.80	223.28	215.5	216.8	1,103	645.3	103.7	20.79	4.46	0
MEAN	0	0	1.09	7.20	7.70	6.99	36.8	20.8	3.46	.67	.14	0
MAX	0	0	5.3	33	16	38	53	37	5.7	1.5	.32	0
MIN	0	0	0	.40	4.8	2.5	28	5.9	1.6	.32	0	0
AC-FT	0	0	67	443	427	430	2,190	1,280	206	41	8.8	0

CAL YR 1968 TOTAL 1,253.17 MEAN 3.42 MAX 27 MIN 0 AC-FT 2,490
WTR YR 1969 TOTAL 2,566.63 MEAN 7.03 MAX 53 MIN 0 AC-FT 5,090

11353600 DRY CREEK NEAR DANA, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	2.4	30	17	5.4	1.9	.66	.38	.04	
2			0	2.2	28	15	5.2	1.9	.58	.38	.02	
3			0	2.1	25	14	5.0	1.8	.58	.32	0	
4			0	2.1	22	13	4.7	1.6	.50	.32	0	
5			0	2.1	20	12	4.4	1.6	.50	.26	0	
6			0	2.0	18	11	4.0	1.6	.44	.26	0	
7			0	1.9	17	16	3.9	1.6	.38	.26	0	
8			0	1.5	16	15	3.6	1.8	.38	.21	0	
9			0	2.2	15	14	3.5	1.9	.38	.21	0	
10			0	4.4	14	13	3.3	1.8	.38	.18	0	
11			0	4.2	13	13	3.2	1.8	.38	.18	0	
12			1.3	6.2	16	12	3.2	1.6	.32	.18	0	
13			4.4	16	16	11	3.2	1.5	.38	.16	0	
14			3.1	48	15	14	3.1	1.3	.38	.16	0	
15			2.3	40	14	13	3.0	1.2	.38	.16	0	
16			1.6	53	15	12	3.0	1.1	.38	.15	0	
17			1.4	114	15	12	2.8	1.1	.38	.14	0	
18			1.3	73	13	11	2.7	1.1	.32	.14	0	
19			7.6	54	13	11	2.8	1.0	.32	.13	0	
20			14	51	12	10	2.7	1.1	.32	.12	0	
21			23	88	11	9.6	2.6	1.0	.32	.12	0	
22			11	180	11	9.2	2.6	.90	.26	.11	0	
23			7.7	314	11	8.7	2.4	.82	.26	.10	0	
24			6.2	283	10	8.2	2.4	.82	.26	.10	0	
25			6.6	139	9.5	7.9	2.4	.74	.26	.09	0	
26			5.4	117	9.2	7.4	2.6	.66	.32	.08	0	
27			4.4	129	9.5	7.0	2.4	.66	.38	.08	0	
28			3.7	77	19	6.6	2.3	.66	.44	.07	0	
29			3.3	57	------	6.4	2.1	.66	.44	.06	0	
30			3.0	43	------	6.0	2.0	.66	.38	.06	0	
31		------	2.7	35	------	5.8	------	.66	------	.05	0	------
TOTAL	0	0	114.0	1,944.3	437.2	341.8	96.5	38.54	11.66	5.22	.06	0
MEAN	0	0	3.68	62.7	15.6	11.0	3.22	1.24	.39	.17	.002	0
MAX	0	0	23	314	30	17	5.4	1.9	.66	.38	.04	0
MIN	0	0	0	1.5	9.2	5.8	2.0	.66	.26	.05	0	0
AC-FT	0	0	226	3,860	867	678	191	76	23	10	.1	0

CAL YR 1969 TOTAL 2,646.83 MEAN 7.25 MAX 53 MIN 0 AC-FT 5,250
WTR YR 1970 TOTAL 2,989.28 MEAN 8.19 MAX 314 MIN 0 AC-FT 5,930

11353700 FALL RIVER NEAR DANA, CALIF.

LOCATION.--Lat 41°06'20", long 121°33'00", in NE¼ sec.30, T.38 N., R.4 E., on left bank 0.7 mile southeast of Dana and 1 mile downstream from large springs below Bear Creek.

DRAINAGE AREA.--More than 123 sq mi; hydrologic drainage boundary uncertain owing to ground-water exchange.

PERIOD OF RECORD.--October 1958 to September 1967 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 3,340 ft (from topographic map).

AVERAGE DISCHARGE.--9 years, 465 cfs (336,600 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-67 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Apr. 10, 1966	1,190	7.72	July 25, Aug. 1, 1966	401
1967	May 23, 1967	932	8.15	Nov. 27, 1966, Sept.27,29,30, 1967	415

Period of record: Maximum discharge, 3,910 cfs Dec. 23, 1964 (gage height, 12.62 ft), from rating curve extended above 1,400 cfs; minimum daily, 353 cfs Jan. 29, 1962.

Flood of Feb. 26, 1958, reached a stage of 10.25 ft (discharge, 2,190 cfs).

REMARKS.--Practically entire flow of stream originates in large spring about 1 mile upstream. Some pumping from stream in vicinity of gage for irrigation.

COOPERATION.--Records furnished by California Department of Water Resources and reviewed by Geological Survey.

REVISIONS.--WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	434	425	415	417	413	416	679	585	445	414	401	416
2	434	424	414	418	416	411	720	583	440	416	403	416
3	438	424	413	416	416	406	730	587	438	417	403	416
4	439	424	412	428	417	404	733	590	432	416	403	413
5	440	421	417	425	424	406	743	606	429	414	406	413
6	440	421	413	427	434	414	754	616	429	415	406	416
7	439	422	413	428	434	442	773	600	428	426	406	413
8	438	423	411	431	433	473	793	578	429	416	403	413
9	436	423	411	431	422	505	829	574	426	416	403	413
10	435	421	411	429	422	612	1,090	575	423	416	403	416
11	433	426	411	429	419	597	1,090	565	422	413	406	416
12	436	426	409	430	417	551	1,040	544	423	413	403	416
13	434	427	410	430	414	601	909	534	418	411	406	416
14	433	425	410	429	414	676	823	526	419	416	406	416
15	434	423	408	426	413	659	790	513	418	413	408	418
16	434	423	408	426	410	613	793	500	423	411	406	418
17	434	427	410	424	411	562	808	489	422	411	406	416
18	434	430	409	422	412	536	791	482	422	411	408	418
19	433	419	408	422	412	530	736	480	420	411	411	418
20	432	429	409	421	411	510	690	473	421	411	408	418
21	432	429	408	421	414	503	664	475	422	408	408	416
22	431	424	408	421	415	501	650	473	421	408	411	416
23	432	421	407	418	420	497	638	456	413	406	413	413
24	433	436	412	421	423	499	644	451	417	403	411	416
25	431	435	410	419	421	509	653	447	415	401	413	416
26	430	424	410	417	414	517	666	445	413	403	416	416
27	427	422	410	416	413	536	636	444	409	403	416	416
28	427	421	425	411	415	559	619	441	416	403	416	413
29	427	419	417	409	------	580	602	439	415	403	416	416
30	426	420	418	411	------	611	593	441	416	403	416	416
31	426	------	418	411	------	640	------	440	------	403	416	------
TOTAL	13,432	12,734	12,765	13,084	11,699	16,276	22,679	15,952	12,684	12,731	12,657	12,469
MFAN	433	424	412	422	418	525	756	515	423	411	408	416
MAX	440	436	425	431	434	676	1,090	616	445	426	416	418
MIN	426	419	407	409	410	404	593	439	409	401	401	413
AC-FT	26,640	25,260	25,320	25,950	23,200	32,280	44,980	31,640	25,160	25,250	25,110	24,730

CAL YR 1965 TOTAL 182,488 MEAN 500 MAX 1,060 MIN 407 AC-FT 362,000
WTR YR 1966 TOTAL 169,162 MFAN 463 MAX 1,090 MIN 401 AC-FT 335,500

11353700 FALL RIVER NEAR DANA, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	421	417	431	429	584	479	567	549	704	483	464	450
2	421	417	472	425	561	485	557	559	704	475	466	448
3	421	417	489	425	541	483	555	567	673	472	464	446
4	421	417	489	425	524	479	551	574	662	472	466	446
5	419	417	685	425	508	475	553	582	658	472	470	444
6	419	421	554	421	497	475	565	615	656	466	472	441
7	419	419	507	423	493	479	565	636	656	464	472	443
8	421	419	472	425	483	481	561	685	644	462	472	441
9	421	419	452	425	481	483	565	772	638	462	472	439
10	419	419	443	427	479	505	569	842	631	458	468	439
11	419	419	446	427	477	516	567	809	605	458	468	437
12	419	421	443	427	479	514	559	753	580	454	475	435
13	419	419	452	427	485	507	563	724	571	454	475	435
14	419	419	468	427	489	505	598	718	561	452	475	433
15	419	423	448	425	481	503	588	733	555	446	475	431
16	419	425	441	425	479	574	571	772	549	446	475	429
17	419	423	433	419	477	623	571	821	547	446	477	427
18	419	423	431	425	479	669	572	869	541	443	477	427
19	419	423	431	423	479	633	567	908	551	444	475	425
20	417	450	429	429	477	615	555	908	545	446	474	423
21	419	433	431	433	475	611	549	902	536	450	472	421
22	421	431	431	433	475	605	549	912	526	452	470	421
23	421	425	431	433	475	679	547	914	520	454	468	419
24	421	419	431	437	477	677	557	898	510	456	466	421
25	417	417	431	437	479	636	567	863	505	456	466	419
26	417	419	429	437	477	609	563	815	499	458	464	417
27	419	415	427	439	475	596	574	795	495	458	460	415
28	419	417	427	439	477	596	569	803	489	458	458	417
29	419	427	429	477	------	584	559	803	475	460	456	415
30	417	429	429	582	------	576	551	759	483	462	452	415
31	417	------	427	602	------	576	------	724	------	462	450	------
TOTAL	12,997	12,659	14,139	13,653	13,763	17,228	16,904	23,584	17,269	14,201	14,514	12,919
MEAN	419	422	456	440	492	556	563	761	576	458	468	431
MAX	421	450	685	602	584	679	598	914	704	483	477	450
MIN	417	415	427	419	475	475	547	549	475	443	450	415
AC-FT	25,780	25,110	28,040	27,080	27,300	34,170	33,530	46,780	34,250	28,170	28,790	25,620

CAL YR 1966 TOTAL 170,026 MEAN 466 MAX 1,090 MIN 401 AC-FT 337,200
WTR YR 1967 TOTAL 183,830 MEAN 504 MAX 914 MIN 415 AC-FT 364,600

11355500 HAT CREEK NEAR HAT CREEK, CALIF.

LOCATION.--Lat 40°41'12", long 121°25'25", in SE¼ sec.28, T.33 N., R.5 E., Shasta County, on right bank 0.8 mile northeast of Old Station Post Office and 8 miles southeast of Hat Creek Post Office.

DRAINAGE AREA.--162 sq mi; hydrologic drainage boundary uncertain owing to ground-water exchange.

PERIOD OF RECORD.--July 1926 to September 1929, April 1930 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 4,300 ft (from topographic map). July 1926 to April 1928 at site 0.5 mile upstream at different datum. May 1928 to July 29, 1965, at site 80 ft upstream at datum 2.76 ft higher.

AVERAGE DISCHARGE.--43 years, 135 cfs (97,810 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (180 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Nov. 18, 1965	0030	*242	3.50	Feb. 23, 1968	1700	*223	3.39	Nov. 5, 1969	0800	223	3.39
Apr. 26, 1966	0200	183	3.12	May 20, 1968	0900	214	3.33	Dec. 12, 1969	1500	183	3.12
May 10, 1966	2300	231	3.43	June 3, 1968	0200	194	3.20	Dec. 21, 1969	1400	541	4.79
				Nov. 12, 1968	0400	214	3.40	Jan. 16, 1970	1530	247	3.55
Nov. 16, 1966	0530	253	3.56	Dec. 10, 1968	1000	219	3.43	Jan. 23, 1970	2330	*960	6.00
Nov. 19, 1966	1830	216	3.34	Jan. 21, 1969	0700	230	3.50	May 10, 1970	0100	197	3.22
Nov. 29, 1966	1000	208	3.29	Jan. 26, 1969	0400	181	3.17	May 19, 1970	0030	240	3.49
Jan. 29, 1967	1700	186	3.14	Apr. 23, 1969	0600	191	3.24	May 27, 1970	0300	260	3.60
May 23, 1967	2400	288	3.75	Apr. 30, 1969	0500	180	3.16	June 4, 1970	0100	271	3.66
June 11, 1967	2300	322	3.92	May 26, 1969	2200	*388	4.27	June 28, 1970	1600	264	3.62
June 20, 1967	2100	*386	4.22	June 14, 1969	2300	308	3.92				
Jan. 15, 1968	1600	197	3.22	Oct. 16, 1969	0530	183	3.12				

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Sept.21-24, 1966	118	1969	Oct. 1-10, 1968	122
1967	Oct. 9-11, 1966	117	1970	Jan. 5, 6, 1970	136
1968	Sept.27, 1968	113			

Period of record: Maximum discharge, 3,320 cfs Dec. 11, 1937 (gage height, 7.75 ft in gage well, affected by drawdown, site and datum then in use), from rating curve extended above 610 cfs on basis of slope-area measurement of peak flow; minimum, 67 cfs Sept. 7, 1934.

REMARKS.--Records excellent. Diversions for irrigation of 260 acres above station. See schematic diagram of Pit and McCloud River basins elsewhere in this report.

REVISIONS (WATER YEARS).--WSP 1395: 1938. WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	151	154	154	143	146	143	154	172	169	134	136	122
2	148	154	154	145	145	142	156	180	161	136	136	123
3	147	153	154	146	146	141	156	187	157	134	136	122
4	147	153	154	147	145	141	156	194	156	133	136	124
5	147	153	154	143	146	145	157	210	156	132	136	126
6	148	153	153	145	147	146	160	207	158	131	136	126
7	146	156	153	149	145	145	161	202	163	131	134	124
8	145	163	153	151	142	145	160	210	157	130	134	128
9	145	157	153	149	145	146	162	212	157	130	128	132
10	146	156	152	149	143	147	166	215	158	137	122	133
11	146	156	151	149	142	146	161	216	157	140	122	132
12	146	160	153	148	143	146	157	207	153	140	122	133
13	146	162	152	148	140	151	154	205	151	140	122	133
14	149	163	143	148	142	149	156	216	151	140	123	133
15	153	162	142	148	141	148	158	208	152	140	124	133
16	154	160	142	147	141	146	161	199	152	139	124	132
17	156	173	142	147	142	142	166	190	151	139	122	128
18	156	190	142	147	143	146	167	193	149	139	122	126
19	157	166	143	146	143	145	160	197	149	138	128	123
20	156	162	143	143	143	142	154	202	153	129	131	120
21	154	161	143	145	143	143	152	207	151	126	131	118
22	154	161	143	147	145	143	153	197	149	126	132	118
23	154	160	143	147	145	143	157	190	149	126	132	118
24	154	157	145	147	143	145	161	191	149	126	132	118
25	154	156	143	147	142	145	170	193	148	127	132	119
26	154	154	141	147	142	146	174	194	147	127	132	123
27	153	154	142	147	141	147	167	187	146	126	132	122
28	154	151	146	147	142	148	163	183	146	126	132	122
29	156	153	143	147	------	149	163	180	145	127	126	128
30	154	156	142	147	------	152	169	177	138	134	120	128
31	154	------	143	147	------	152	------	176	------	138	121	------
TOTAL	4,684	4,769	4,561	4,553	4,013	4,515	4,811	6,097	4,578	4,121	3,996	3,767
MEAN	151	159	147	147	143	146	160	197	153	133	129	126
MAX	157	190	154	151	147	152	174	216	169	140	136	133
MIN	145	151	141	143	140	141	152	172	138	126	120	118
AC-FT	9,290	9,460	9,050	9,030	7,960	8,960	9,540	12,090	9,080	8,170	7,930	7,470

CAL YR 1965 TOTAL 61,446 MEAN 168 MAX 400 MIN 133 AC-FT 121,900
WTR YR 1966 TOTAL 54,465 MEAN 149 MAX 216 MIN 118 AC-FT 108,000

11355500 HAT CREEK NEAR HAT CREEK, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	121	156	132	149	133	138	132	217	302	157	128
2	128	119	148	131	147	133	137	135	198	300	159	127
3	128	120	141	132	145	134	136	135	193	296	158	127
4	123	120	143	134	143	132	136	137	200	281	157	128
5	120	121	140	134	141	133	136	137	211	273	155	128
6	120	128	142	129	141	133	138	137	225	270	154	128
7	119	130	140	130	140	133	136	143	228	262	153	124
8	118	131	139	132	140	133	136	154	246	255	152	132
9	117	131	141	133	140	134	136	167	275	244	146	132
10	117	132	141	134	139	133	136	159	285	239	143	131
11	117	132	140	134	138	127	136	150	290	237	142	132
12	118	136	142	134	139	127	135	147	300	228	140	135
13	118	138	145	134	140	130	136	146	283	217	138	135
14	118	138	139	134	139	130	137	150	275	209	138	135
15	118	147	139	134	136	132	136	157	275	204	138	135
16	122	186	138	133	137	147	135	163	288	212	137	135
17	128	143	139	130	137	158	135	174	304	204	136	131
18	129	139	139	133	137	150	134	184	314	191	134	126
19	129	161	138	134	136	144	136	191	336	183	140	126
20	129	174	138	133	134	143	135	198	330	179	144	124
21	129	149	137	142	134	143	134	214	332	176	143	124
22	129	141	134	133	137	143	135	230	310	175	140	123
23	129	137	138	133	136	144	134	246	300	171	138	123
24	129	136	134	134	136	140	135	255	302	168	138	124
25	128	136	133	132	134	141	135	244	310	164	140	124
26	129	141	133	133	134	140	134	246	310	159	141	124
27	130	140	130	137	134	140	135	246	306	159	140	123
28	130	146	129	147	134	141	132	255	306	158	138	128
29	130	191	132	176	------	140	132	256	302	155	132	132
30	130	160	132	163	------	138	132	247	304	154	131	134
31	127	------	132	153	------	137	------	240	------	152	128	------
TOTAL	3,864	4,224	4,292	4,237	3,877	4,266	4,058	5,775	8,355	6,577	4,430	3,858
MEAN	125	141	138	137	138	138	135	186	279	212	143	129
MAX	130	191	156	176	149	158	138	256	336	302	159	135
MIN	117	119	129	129	134	127	132	132	193	152	128	123
AC-FT	7,660	8,380	8,510	8,400	7,690	8,460	8,050	11,450	16,570	13,050	8,790	7,650

CAL YR 1966 TOTAL 52,831 MEAN 145 MAX 216 MIN 117 AC-FT 104,800
WTR YR 1967 TOTAL 57,813 MEAN 158 MAX 336 MIN 117 AC-FT 114,700

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	135	135	130	132	128	155	149	163	176	127	130	116
2	149	135	132	130	134	153	148	164	183	129	130	117
3	149	135	134	126	136	152	144	167	184	128	130	117
4	144	135	134	129	136	152	146	172	181	126	130	117
5	143	134	130	130	137	154	146	168	180	127	129	117
6	142	135	128	128	137	150	144	158	177	127	129	116
7	142	135	131	130	137	149	144	157	171	126	129	115
8	141	136	126	131	136	149	144	158	163	123	128	121
9	141	136	126	132	136	147	146	162	155	123	121	126
10	140	135	128	127	136	146	150	166	152	131	117	126
11	140	135	129	124	136	146	155	171	150	137	116	124
12	138	135	129	129	135	146	158	179	146	137	116	124
13	135	135	127	132	135	144	155	183	143	136	118	126
14	131	143	126	138	134	146	154	164	143	136	118	127
15	130	138	126	177	132	144	153	158	144	136	118	126
16	130	136	126	171	132	146	148	162	146	135	122	124
17	130	135	127	154	137	144	144	167	146	135	120	124
18	130	137	128	149	137	142	141	170	144	134	118	121
19	129	146	128	144	142	141	141	184	144	134	131	116
20	129	138	128	142	179	142	135	206	150	126	132	116
21	130	138	128	141	188	142	136	184	152	122	131	116
22	130	137	129	140	177	142	136	175	152	121	124	116
23	130	136	130	138	206	142	135	167	150	121	121	116
24	132	136	130	138	187	142	135	157	148	121	122	116
25	135	136	130	138	170	146	137	158	146	120	126	115
26	135	134	131	135	163	143	140	160	147	119	126	114
27	135	135	134	130	160	143	144	166	146	118	124	113
28	135	135	134	131	158	143	147	167	144	118	123	119
29	135	134	132	128	157	144	155	172	143	118	119	122
30	135	128	131	124	------	147	160	171	132	127	116	122
31	135	------	132	124	------	147	------	170	------	130	116	------
TOTAL	4,215	4,078	4,014	4,222	4,318	4,529	4,370	5,226	4,638	3,948	3,830	3,585
MEAN	136	136	129	136	149	146	146	169	155	127	124	120
MAX	149	146	134	177	206	155	160	206	184	137	132	127
MIN	129	128	126	124	128	141	135	157	132	118	116	113
AC-FT	8,360	8,090	7,960	8,370	8,560	8,980	8,670	10,370	9,200	7,830	7,600	7,110

CAL YR 1967 TOTAL 57,740 MEAN 158 MAX 336 MIN 123 AC-FT 114,500
WTR YR 1968 TOTAL 50,973 MEAN 139 MAX 206 MIN 113 AC-FT 101,100

11355500 HAT CREEK NEAR HAT CREEK, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122	132	134	130	147	136	154	170	308	195	146	142
2	122	136	128	131	144	136	153	168	306	195	145	141
3	122	138	130	131	142	135	150	170	311	192	145	141
4	122	135	131	132	144	135	149	162	322	189	145	140
5	122	132	134	132	144	135	154	162	326	191	145	141
6	122	132	131	132	141	134	149	175	315	189	144	141
7	122	132	132	132	141	134	148	189	296	185	144	141
8	122	131	134	131	142	133	147	205	298	181	144	146
9	122	132	134	128	141	135	148	224	288	180	142	149
10	122	131	170	131	145	133	147	240	276	177	144	149
11	126	132	146	133	147	134	149	256	286	176	144	148
12	142	165	136	132	145	134	153	261	278	175	140	149
13	140	141	139	134	141	132	152	245	280	173	141	150
14	132	136	132	134	142	132	152	251	280	173	141	150
15	128	136	134	132	142	133	149	235	274	171	142	150
16	126	136	131	132	141	133	149	245	267	168	142	150
17	126	135	132	132	140	134	154	267	256	170	142	150
18	125	144	132	133	140	133	160	290	261	170	141	147
19	125	142	132	141	139	132	159	290	269	167	147	144
20	126	138	129	171	139	133	162	273	263	164	148	142
21	128	136	126	211	138	132	168	274	254	165	148	142
22	129	136	126	182	137	133	176	280	249	165	147	145
23	129	135	127	165	139	133	184	294	245	162	146	147
24	129	136	126	159	136	133	171	313	237	158	146	146
25	129	134	127	161	136	134	165	335	222	155	147	145
26	129	132	126	175	135	135	161	335	211	153	146	144
27	128	133	126	164	136	137	160	313	204	152	145	145
28	127	131	127	158	137	139	162	290	196	150	145	144
29	130	134	128	145	------	141	171	292	193	149	142	144
30	134	133	128	147	------	145	172	313	195	149	141	142
31	132	------	129	142	------	153	------	315	------	148	142	------
TOTAL	3,940	4,076	4,097	4,493	3,941	4,191	4,728	7,832	7,966	5,287	4,467	4,355
MEAN	127	136	132	145	141	135	158	253	266	171	144	145
MAX	142	165	170	211	147	153	184	335	326	195	148	150
MIN	122	131	126	128	135	132	147	162	193	148	140	140
AC-FT	7,810	8,080	8,130	8,910	7,820	8,310	9,380	15,530	15,800	10,490	8,860	8,640

CAL YR 1968 TOTAL 50,779 MEAN 139 MAX 206 MIN 113 AC-FT 100,700
WTR YR 1969 TOTAL 59,373 MEAN 163 MAX 335 MIN 122 AC-FT 117,800

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	141	154	150	143	208	190	166	153	232	202	171	152
2	144	153	150	141	204	184	166	157	240	200	170	152
3	147	153	150	138	204	181	166	163	251	196	168	150
4	147	154	150	137	203	184	166	172	256	194	167	152
5	147	183	149	136	200	183	167	181	256	193	166	154
6	144	162	153	136	200	180	170	184	251	188	166	153
7	144	158	152	140	198	184	171	184	247	186	166	150
8	147	157	153	143	197	188	170	187	235	184	164	157
9	146	157	150	148	197	184	171	191	223	181	159	158
10	144	155	152	150	196	181	170	190	227	184	154	153
11	146	155	152	149	194	179	171	183	215	186	154	152
12	148	154	170	149	197	177	171	179	209	184	153	153
13	149	154	167	153	197	176	172	179	209	183	154	153
14	149	154	162	170	193	181	171	183	219	181	153	153
15	157	154	158	160	193	180	168	187	212	179	153	153
16	171	154	157	215	193	179	164	200	209	177	153	152
17	159	150	155	198	193	177	158	219	208	177	153	152
18	155	152	155	183	188	174	158	228	206	177	154	152
19	153	153	174	180	187	172	159	227	209	172	162	153
20	154	152	197	181	187	171	157	219	215	170	163	153
21	155	152	380	293	186	171	157	211	227	170	162	155
22	155	152	249	483	184	170	154	220	225	168	160	159
23	155	152	197	705	184	171	153	227	222	167	159	160
24	154	152	177	595	184	171	153	227	220	166	159	159
25	154	152	171	353	184	170	154	230	214	164	159	158
26	154	152	160	300	184	170	158	240	215	163	159	157
27	154	153	154	281	183	168	158	246	230	162	159	155
28	154	150	146	239	186	168	155	237	244	162	159	157
29	154	150	144	225	------	168	155	234	232	162	155	159
30	154	152	144	219	------	168	153	228	212	168	152	160
31	154	------	143	212	------	166	------	225	------	171	150	------
TOTAL	4,689	4,635	5,221	7,055	5,404	5,466	4,882	6,291	6,770	5,517	4,936	4,636
MEAN	151	155	168	228	193	176	163	203	226	178	159	155
MAX	171	183	380	705	208	190	172	246	256	202	171	160
MIN	141	150	143	136	183	166	153	153	206	162	150	150
AC-FT	9,300	9,190	10,360	13,990	10,720	10,840	9,680	12,480	13,430	10,940	9,790	9,200

CAL YR 1969 TOTAL 61,805 MEAN 169 MAX 380 MIN 128 AC-FT 122,600
WTR YR 1970 TOTAL 65,502 MEAN 179 MAX 705 MIN 136 AC-FT 129,900

11360500 BURNEY CREEK NEAR BURNEY, CALIF.

LOCATION.--Lat 40°52'16", long 121°40'57", in SE¼SW¼ sec.19, T.35 N., R.3 E., Shasta County, on right bank 300 ft upstream from road bridge, 0.8 mile southwest of Burnev, and 4.5 miles upstream from Goose Creek.

DRAINAGE AREA.--88.8 sq mi.

PERIOD OF RECORD.--August 1911 to August 1913 (published as "at Burney"), March 1921 to September 1922, April 1958 to September 1964, October 1965 to September 1970. Monthly discharge only for some periods, published in WSP 1315-A.

GAGE.--Water-stage recorder. Altitude of gage is 3,180 ft (from topographic map). August 1911 to August 1913 and March 1921 to September 1922 nonrecording gage or water-stage recorder at different site and datum.

AVERAGE DISCHARGE.--14 years, 63.9 cfs (46,300 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Apr. 11, 1966	399	8.26	Jan. 2, 1966	3.5
1967	Jan. 29, 1967	1,210	10.35	Oct. 17, 18, 1966	7.5
1968	Feb. 23, 1968	765	9.62	July 6, 30, 1968	8.2
1969	Jan. 21, 1969	1,510	11.01	Oct. 2, 1968	11
1970	Jan. 23, 1970	4,910	15.89	Many days	3.7

Period of record: Maximum discharge, 4,910 cfs Jan. 23, 1970 (gage height, 15.89 ft), from rating curve extended above 2,500 cfs on basis of contracted-opening measurement of peak flow; minimum, 3.4 cfs Aug. 4, 1961.

REMARKS.--No gage-height record Dec. 7, 1967, to Jan. 17, 1968. Small diversions upstream for irrigation. Slight regulation probably caused by logging operations.

COOPERATION.--Records furnished by California Department of Water Resources and reviewed by Geological Survey.

REVISIONS.--WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	23	30	6.6	26	34	142	97	36	14	13	12
2	14	17	24	3.5	22	34	156	96	33	15	13	12
3	13	22	27	5.1	23	32	163	103	30	16	13	12
4	13	25	29	107	34	31	166	104	27	16	13	12
5	15	20	24	92	48	32	170	104	21	16	12	11
6	13	17	23	121	47	37	175	106	22	16	12	11
7	8.9	18	30	96	40	44	180	95	25	15	12	11
8	13	29	23	99	34	72	186	96	27	18	13	12
9	10	20	20	69	33	80	199	96	27	18	13	12
10	9.1	19	20	50	32	137	296	95	24	18	13	12
11	19	22	22	42	29	106	324	89	20	17	13	12
12	12	47	23	35	28	93	321	79	21	16	12	13
13	21	42	28	31	26	134	238	76	20	16	12	13
14	16	61	23	30	27	151	197	76	18	16	13	12
15	16	48	16	29	26	150	193	68	17	15	13	12
16	16	39	10	27	26	123	199	65	15	15	13	12
17	16	50	7.2	25	26	92	207	62	16	15	13	11
18	16	92	7.7	25	27	79	197	60	15	15	13	12
19	15	49	7.7	23	35	79	162	57	14	14	13	11
20	11	40	7.5	22	44	68	143	54	19	13	13	9.9
21	15	32	7.0	20	40	63	128	52	25	13	12	9.2
22	12	26	6.1	18	40	59	119	49	18	14	11	11
23	11	29	6.1	18	51	57	120	44	18	13	11	12
24	12	69	6.4	19	49	50	120	42	17	13	12	12
25	18	53	7.8	24	79	64	124	41	17	13	12	13
26	15	29	7.6	23	34	87	125	40	19	13	12	12
27	12	24	7.4	21	21	65	118	37	18	13	12	11
28	13	22	9.4	20	21	77	101	35	18	12	12	11
29	22	22	5.3	24	------	101	97	34	16	12	12	11
30	14	35	12	32	------	117	99	33	14	12	12	11
31	13	------	13	32	------	128	------	34	------	13	12	------
TOTAL	437.0	1,041	490.2	1,189.2	968	2,476	5,165	2,119	627	455	385	348.1
MEAN	14.1	34.7	15.8	38.4	34.6	79.9	172	68.4	20.9	14.7	12.4	11.6
MAX	22	92	30	121	79	151	324	106	36	18	13	13
MIN	8.9	17	5.3	3.5	21	31	97	33	14	12	11	9.2
AC-FT	867	2,060	972	2,360	1,920	4,910	10,240	4,200	1,240	902	764	690

WTR YR 1966 TOTAL 15,700.5 MEAN 43.0 MAX 324 MIN 3.5 AC-FT 31,140

11360500 BURNEY CREEK NEAR BURNEY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	13	179	33	370	78	127	90	286	56	19	14
2	11	11	326	31	284	79	122	88	292	54	18	15
3	10	7.8	240	31	244	78	118	93	248	52	18	16
4	9.2	9.5	256	32	210	72	112	98	176	50	19	16
5	9.2	12	449	31	186	70	109	112	153	48	19	14
6	8.5	16	229	28	158	69	120	141	153	45	20	12
7	9.5	17	141	27	148	71	124	139	157	43	23	12
8	9.9	17	90	27	138	72	117	165	156	40	24	12
9	9.2	13	90	26	131	74	118	236	224	41	21	13
10	11	13	84	26	128	95	117	334	182	40	20	13
11	11	14	80	26	123	130	110	343	157	40	20	14
12	12	31	81	27	124	96	102	279	186	37	20	15
13	8.8	21	109	27	131	84	101	242	202	31	20	15
14	9.2	40	104	27	130	82	114	260	141	30	18	13
15	11	62	80	27	113	81	119	297	134	29	15	12
16	10	148	90	27	105	271	114	346	129	30	16	14
17	7.5	40	51	24	102	269	107	383	119	30	16	16
18	7.5	27	46	24	97	262	107	415	115	29	16	21
19	8.5	55	44	24	95	201	108	469	113	27	18	18
20	13	260	44	31	91	199	109	536	105	27	16	18
21	12	128	48	95	85	191	104	539	107	27	15	18
22	12	86	45	91	83	198	96	602	103	31	16	19
23	12	53	44	74	82	299	92	636	95	30	15	18
24	12	45	42	62	82	225	93	588	83	26	16	16
25	12	40	51	64	86	189	102	489	77	23	16	16
26	12	38	45	60	80	165	112	435	72	23	16	16
27	12	37	37	63	77	147	113	402	70	24	16	16
28	12	48	30	176	77	155	113	411	68	23	16	16
29	12	131	30	920	------	148	107	367	64	23	15	15
30	13	82	30	679	------	138	96	312	60	22	15	16
31	14	------	32	475	------	137	------	277	------	20	15	------
TOTAL	331.0	1,515.3	3,247	3,315	3,760	4,425	3,303	10,124	4,227	1,051	547	459
MEAN	10.7	50.5	105	107	134	143	110	327	141	33.9	17.6	15.3
MAX	14	260	449	920	370	299	127	636	292	56	24	21
MIN	7.5	7.8	30	24	77	69	92	88	60	20	15	12
AC-FT	657	3,010	6,440	6,580	7,460	8,780	6,550	20,080	8,380	2,080	1,080	910

CAL YR 1966 TOTAL 18,825.6 MEAN 51.6 MAX 449 MIN 3.5 AC-FT 37,340
WTR YR 1967 TOTAL 36,304.3 MEAN 99.5 MAX 920 MIN 7.5 AC-FT 72,010

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	13	25	18	33	234	166	71	27	12	9.6	12
2	33	15	24	18	38	204	156	68	27	12	9.2	12
3	59	18	36	18	52	188	141	66	26	11	11	12
4	25	16	50	18	47	181	131	64	28	10	10	9.6
5	24	16	88	18	43	224	134	64	45	9.2	9.6	9.6
6	23	16	43	18	40	196	129	63	53	8.2	11	10
7	22	17	34	18	41	168	121	60	43	13	11	11
8	22	16	28	18	40	152	116	56	38	16	11	12
9	20	16	28	18	40	136	118	56	33	18	10	12
10	20	19	28	18	42	121	121	50	30	16	11	13
11	20	19	27	18	43	120	138	58	30	16	9.6	13
12	20	20	27	18	45	134	139	60	27	15	9.6	13
13	20	20	26	18	49	128	120	113	22	16	9.2	14
14	20	28	26	80	44	132	110	96	20	15	11	20
15	20	23	25	165	44	139	108	63	20	15	11	18
16	20	20	25	131	41	196	102	60	20	15	11	17
17	20	17	25	98	100	163	91	54	16	13	12	16
18	20	18	24	66	154	128	88	52	18	13	11	16
19	20	38	24	52	182	107	86	54	19	12	24	16
20	20	25	23	49	196	104	83	76	18	13	24	15
21	20	16	23	50	538	99	83	63	16	11	32	15
22	20	18	22	49	438	99	82	71	15	9.6	25	15
23	20	20	22	47	687	104	79	78	19	10	18	15
24	20	17	22	44	580	104	76	66	20	9.6	15	15
25	20	19	21	43	408	169	75	58	12	9.2	14	14
26	20	16	21	42	358	168	75	57	12	9.2	16	12
27	20	19	20	41	318	132	75	53	13	8.7	16	13
28	20	20	20	40	275	126	75	43	16	9.2	16	10
29	20	24	20	78	250	132	70	38	13	8.7	15	9.6
30	17	32	19	141	------	148	68	36	13	8.2	15	11
31	13	------	19	38	------	156	------	33	------	8.7	13	------
TOTAL	675	591	865	1,488	5,166	4,592	3,156	1,900	709	370.5	430.8	400.8
MEAN	21.8	19.7	27.9	48.0	178	148	105	61.3	23.6	12.0	13.9	13.4
MAX	59	38	88	165	687	234	166	113	53	18	32	20
MIN	13	13	19	18	33	99	68	33	12	8.2	9.2	9.6
AC-FT	1,340	1,170	1,720	2,950	10,250	9,110	6,260	3,770	1,410	735	854	795

CAL YR 1967 TOTAL 33,342.0 MEAN 91.3 MAX 920 MIN 12 AC-FT 66,130
WTR YR 1968 TOTAL 20,344.1 MEAN 55.6 MAX 687 MIN 8.2 AC-FT 40,350

11360500 BURNEY CREEK NEAR BURNEY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	20	23	30	208	99	336	316	118	40	23	16
2	11	24	21	28	184	94	306	296	110	37	24	16
3	12	34	20	30	170	91	250	288	108	36	23	16
4	14	33	20	30	159	86	218	256	105	35	23	16
5	16	26	20	30	147	81	338	260	102	34	21	16
6	18	21	20	28	134	81	288	285	97	33	21	16
7	20	20	20	30	120	79	230	318	92	33	20	16
8	19	19	27	32	129	100	210	328	94	34	20	16
9	19	18	26	32	278	92	210	346	107	34	20	16
10	18	17	405	30	256	76	204	363	108	33	19	16
11	27	27	190	32	405	62	214	366	104	31	19	16
12	47	62	94	120	371	58	242	371	102	31	18	16
13	68	27	71	699	288	60	250	363	96	30	17	16
14	43	21	63	350	242	64	228	336	85	28	17	16
15	36	22	132	206	230	99	210	290	78	28	17	16
16	25	21	76	165	212	75	214	264	72	28	16	16
17	20	22	60	165	181	70	238	258	68	28	16	16
18	20	34	51	145	166	86	360	258	66	28	16	17
19	20	30	46	246	154	96	313	242	63	27	17	17
20	20	26	45	1,010	141	97	316	214	62	27	17	18
21	20	23	45	1,290	131	99	340	200	60	27	17	18
22	18	23	44	819	121	99	373	198	59	26	17	18
23	18	25	44	541	116	100	449	196	57	25	17	18
24	17	33	44	446	112	102	336	198	51	24	16	18
25	17	34	43	495	107	102	288	192	47	23	17	18
26	16	27	34	783	105	110	262	190	45	23	17	17
27	16	23	32	554	100	118	260	181	43	22	17	17
28	16	21	32	438	99	156	268	159	43	23	17	16
29	30	21	32	371	------	166	303	145	41	23	17	16
30	37	23	31	268	------	172	303	136	40	23	17	16
31	24	------	30	244	------	256	------	132	------	23	17	------
TOTAL	715	777	1,841	9,687	5,066	3,126	8,357	7,945	2,323	897	570	496
MEAN	23.1	25.9	59.4	312	181	101	279	256	77.4	28.9	18.4	16.5
MAX	68	62	405	1,290	405	256	449	371	118	40	24	18
MIN	11	17	20	28	99	58	204	132	40	22	16	16
AC-FT	1,420	1,540	3,650	19,210	10,050	6,200	16,580	15,760	4,610	1,780	1,130	984

CAL YR 1968 TOTAL 21,546.1 MEAN 58.9 MAX 687 MIN 8.2 AC-FT 42,740
WTR YR 1969 TOTAL 41,800.0 MEAN 115 MAX 1,290 MIN 11 AC-FT 82,910

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	20	21	63	445	263	84	67	13	21	8.4	14
2	15	19	20	51	385	216	82	58	12	18	11	15
3	15	19	20	44	314	190	79	45	11	17	16	14
4	14	19	20	39	280	187	78	45	8.0	15	15	13
5	14	76	20	36	266	178	75	44	7.5	12	16	11
6	14	50	20	32	246	174	74	42	8.0	12	17	11
7	13	46	20	28	230	202	75	44	9.7	12	29	12
8	14	38	23	32	215	342	70	43	11	17	28	12
9	14	33	24	72	200	253	65	57	13	18	27	11
10	16	30	27	204	186	215	61	52	23	17	25	9.1
11	15	29	63	149	172	185	61	47	14	14	24	8.6
12	15	28	477	175	219	173	58	48	14	13	23	10
13	15	28	326	467	230	171	58	48	35	13	23	10
14	17	24	136	1,070	203	182	57	44	77	12	21	10
15	18	23	102	646	186	171	54	42	54	12	22	10
16	30	23	83	1,160	273	159	56	39	39	15	21	10
17	41	22	80	1,170	336	139	53	36	29	19	20	9.3
18	41	22	76	920	228	128	40	35	24	19	20	10
19	38	22	524	721	197	123	65	34	21	20	19	19
20	36	22	657	681	183	117	61	33	17	22	18	17
21	34	21	1,090	1,120	180	114	55	30	23	17	17	14
22	32	21	542	1,410	174	110	50	26	21	14	17	8.1
23	30	21	300	3,370	169	106	48	23	17	16	17	8.1
24	28	22	251	2,750	168	105	46	21	11	15	17	9.6
25	27	22	333	1,400	180	102	44	20	17	14	18	12
26	25	21	217	1,130	180	100	57	19	19	14	17	13
27	24	21	151	1,600	150	94	69	16	20	13	15	16
28	23	21	116	914	171	92	63	15	36	12	15	18
29	22	20	99	749	------	91	56	15	37	12	15	15
30	21	20	83	623	------	88	64	15	23	11	14	11
31	20	------	69	526	------	86	------	14	------	10	14	------
TOTAL	696	803	5,990	23,352	6,366	4,856	1,858	1,117	664.2	466	579.4	360.8
MEAN	22.5	26.8	193	753	227	157	61.9	36.0	22.1	15.0	18.7	12.0
MAX	41	76	1,090	3,370	445	342	84	67	77	22	29	19
MIN	13	19	20	28	150	86	40	14	7.5	10	8.4	8.1
AC-FT	1,380	1,590	11,880	46,320	12,630	9,630	3,690	2,220	1,320	924	1,150	716

CAL YR 1969 TOTAL 45,956.0 MEAN 126 MAX 1,290 MIN 13 AC-FT 91,150
WTR YR 1970 TOTAL 47,108.4 MEAN 129 MAX 3,370 MIN 7.5 AC-FT 93,440

11361400 LAKE BRITTON NEAR BURNEY, CALIF.

LOCATION.--Lat 41°01'20", long 121°40'32", in SW¼SW¼ sec.30, T.37 N., R.3 E., Shasta County, Shasta National Forest, at control house on right bank, 200 ft upstream from dam on Pit River, 1.1 miles downstream from Clark Creek, 1.3 miles northwest of Burney Falls, and 9 miles north of Burney.

DRAINAGE AREA.--4,606 sq mi.

PERIOD OF RECORD.--October 1965 to September 1970.

GAGE.--Remote telemark. Datum of gage is at mean sea level (levels by Pacific Gas & Electric Co.).

EXTREMES.--Maximums and minimums (contents in acre-feet, elevation in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum		
Wtr yr	Date	Contents	Elevation	Date	Contents	Elevation
1966	May 31, 1966	14,200	2,756.8	Jan. 14, 15, 1966	1,100	2,745.15
1967	Aug. 6, 1967	13,500	2,756.25	Jan. 28, 1967	1,000	2,745.05
1968	Feb. 24, 1968	14,600	2,757.10	Feb. 1, 1968	719	2,744.75
1969	Jan. 21, 1969	13,900	2,756.60	Jan. 2, 3, 1969	1,990	2,746.05
1970	Jan. 25, 1970	20,445	2,761.55	Oct. 20, 1969	1,101	2,745.15

Period of record: Maximum contents, 20,445 acre-ft Jan. 25, 1970 (elevation, 2,761.55 ft); minimum, 719 acre-ft Feb. 1, 1968 (elevation, 2,744.75 ft).

REMARKS.--Reservoir is formed by a gravity-type concrete dam. Storage began July 15, 1925. Maximum storage, 40,600 acre-ft. Beginning with the water year 1970, records of contents are not rounded to U.S. Geological Survey standards. See schematic diagram of Pit and McCloud River basins elsewhere in this report.

COOPERATION.--Record of contents collected by Pacific Gas & Electric Co., under general supervision of the Geological Survey, in connection with a Federal Power Commission project.

MONTHEND ELEVATION AND CONTENTS, WATER YEARS OCTOBER 1965 TO SEPTEMBER 1970

DATE	ELEVATION (FEET)	CONTENTS (ACRE-FEET)	CHANGE IN CONTENTS (ACRE-FEET)
OCT. 31, 1965......	2,749.65	5,760	+540
NOV. 30............	2,750.01	6,150	+390
DEC. 31............	2,747.55	3,520	-2,630
CAL YR 1965......	-	-	-
JAN. 31, 1966......	2,749.05	5,110	+1,590
FEB. 28............	2,747.45	3,420	-1,690
MAR. 31............	2,749.81	5,930	+2,510
APR. 30............	2,745.64	1,590	-4,340
MAY 31............	2,756.81	14,200	+12,600
JUNE 30............	2,754.87	11,800	-2,400
JULY 31............	2,755.53	12,600	+800
AUG. 31............	2,754.63	11,500	-1,100
SEPT.30............	2,754.05	10,800	-700
WTR YR 1966......	-	-	+5,580
OCT. 31............	2,750.90	7,150	-3,650
NOV. 30............	2,747.65	3,620	-3,530
DEC. 31............	2,746.14	2,090	-1,530
CAL YR 1966......	-	-	+1,430
JAN. 31, 1967......	2,754.75	11,700	+9,610
FEB. 28............	2,752.15	8,570	-3,130
MAR. 31............	2,752.50	8,980	+410
APR. 30............	2,753.64	10,300	+1,320
MAY 31............	2,753.06	9,630	-670
JUNE 30............	2,749.70	5,820	-3,810
JULY 31............	2,755.00	12,000	+6,180
AUG. 31............	2,548.60	4,630	-7,370
SEPT.30............	2,753.95	10,700	+6,070
WTR YR 1967......	-	-	-100
OCT. 31............	2,747.60	3,570	-7,130
NOV. 30............	2,749.85	5,980	+2,410
DEC. 31............	2,747.70	3,680	-2,300
CAL YR 1967......	-	-	-1,590
JAN. 31, 1968......	2,747.00	2,950	-730
FEB. 28............	2,754.10	10,900	+7,950
MAR. 31............	2,751.10	7,370	-3,530
APR. 30............	2,749.65	5,760	-1,610
MAY 31............	2,749.30	5,380	-380
JUNE 30............	2,755.65	12,800	+7,420
JULY 31............	2,754.20	11,000	-200
AUG. 31............	2,753.80	10,500	-500
SEPT.30............	2,753.00	9,560	-940
WTR YR 1968......	-	-	-1,140
OCT. 31, 1968......	2,751.85	8,230	-1,330
NOV. 30............	2,746.39	2,340	-5,890
DEC. 31............	2,746.44	2,390	+50
CAL YR 1968......	-	-	-1,290
JAN. 31, 1969......	2,753.70	10,400	+8,010
FEB. 28............	2,752.80	9,330	-1,070
MAR. 31............	2,755.45	12,500	+3,170
APR. 30............	2,753.67	10,400	-2,100
MAY 31............	2,751.80	8,170	-2,230
JUNE 30............	2,753.25	9,860	+1,690
JULY 31............	2,749.80	5,930	-3,930
AUG. 31............	2,754.50	11,300	+5,370
SEPT.30............	2,751.30	7,600	-3,700
WTR YR 1969......	-	-	-1,960
OCT. 31............	2,747.90	3,886	-3,714
NOV. 30............	2,747.75	3,729	-157
DEC. 31............	2,751.40	7,711	+3,982
CAL YR 1969......	-	-	+5,321
JAN. 31, 1970......	2,756.95	14,380	+6,669
FEB. 28............	2,753.15	9,737	-4,643
MAR. 31............	2,752.45	8,919	-818
APR. 30............	2,747.95	3,939	-4,980
MAY 31............	2,747.55	3,521	-418
JUNE 30............	2,754.85	11,774	+8,253
JULY 31............	2,748.70	4,734	-7,040
AUG. 31............	2,750.70	6,923	+2,189
SEPT.30............	2,751.70	8,054	+1,131
WTR YR 1970......	-	-	+454

11362500 PIT RIVER BELOW PIT NO. 4 DAM, CALIF.

LOCATION.--Lat 40°58'25", long 121°46'42", in SW¼ sec.17, T.36 N., R.2 E., Shasta County, Shasta National Forest, on right bank 0.6 mile downstream from Ruling Creek, 1.3 miles downstream from Pit No. 4 Dam, and 2.7 miles downstream from Pit No. 3 powerhouse.

DRAINAGE AREA.--4,647 sq mi, excluding Goose Lake basin.

PERIOD OF RECORD.--May 1922 to September 1970. Monthly discharge only for some periods, published in WSP 1315-A. Published as "near Pecks Bridge" April to October 1922, and as "at Lindsay Flat" November 1922 to June 1927.

GAGE.--Water-stage recorder. Altitude of gage is 2,358 ft (from river-profile map). Prior to November 1922, at site at Pecks Bridge 7.4 miles upstream at different datum. November 1922 to June 20, 1927, at site at Lindsay Flat 1.8 miles upstream at different datum.

AVERAGE DISCHARGE.--60 years (1910-70), 2,764 cfs (2,003,000 acre-ft per year), including diversion to Pit No. 4 powerplant. Period 1910-22 extrapolated on basis of records for Pit River at Big Bend.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Mar. 16, 1966	4,750	9.42	Several days	53
1967	Feb. 2, 1967	10,100	11.90	Mar. 7, 30, 1967	50
1968	Feb. 23, 1968	12,200	13.10	Feb. 15, 1968	51
1969	Jan. 22, 1969	13,200	13.46	Feb. 8, 1969	24
1970	Jan. 25, 1970	31,000	18.04	Dec. 2-4, 1969	22

Period of record: Maximum discharge, 31,000 cfs Jan. 25, 1970 (gage height, 18.04 ft), from rating curve extended above 12,000 cfs; minimum daily (prior to June 9, 1955), 234 cfs Sept. 13, 1953; minimum daily since diversion to Pit No. 4 powerplant in 1955, 22 cfs Dec. 2-4, 1969.

REMARKS.--Flow regulated by many small reservoirs and powerplants (total usable reservoir capacity, 253,000 acre-ft). Many diversions above station; diversion to Pit No. 4 powerplant began June 9, 1955. See schematic diagram of Pit and McCloud River basins elsewhere in this report.

COOPERATION.--Records collected by Pacific Gas & Electric Co., under general supervision of the Geological Survey, in connection with a Federal Power Commission project.

REVISIONS (WATER YEARS).--WSP 843: 1935(M). WSP 1315-A: 1928(M). WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	77	60	57	54	57	88	137	142	142	143	156
2	94	75	57	57	54	57	90	140	140	139	161	161
3	92	75	56	59	54	57	90	132	140	140	169	155
4	92	75	56	80	54	57	90	132	140	141	173	154
5	92	75	56	67	54	57	92	135	140	139	172	156
6	92	77	56	70	54	59	92	140	140	139	157	142
7	90	78	56	63	54	60	89	137	140	141	143	154
8	94	77	56	66	54	64	90	135	137	138	159	155
9	97	75	56	60	54	63	92	140	140	138	151	154
10	101	75	56	57	54	69	101	190	137	138	157	151
11	99	77	57	57	54	735	96	187	137	146	153	155
12	99	77	56	54	54	1,170	97	199	137	141	181	162
13	99	78	56	54	54	830	112	178	320	141	153	160
14	99	77	56	56	54	865	640	140	148	138	146	148
15	99	77	56	54	54	510	409	148	142	140	144	145
16	99	112	56	56	54	1,380	202	145	140	187	145	146
17	99	78	56	54	103	1,750	114	145	139	144	142	147
18	99	78	56	54	59	427	92	148	143	148	144	161
19	99	77	56	54	59	58	92	148	138	145	144	158
20	99	77	56	53	59	56	94	148	193	144	143	154
21	97	75	56	54	57	56	89	145	135	144	147	151
22	99	77	56	54	57	56	97	145	143	145	147	151
23	99	77	56	54	57	54	96	145	142	145	148	155
24	101	83	56	54	60	54	94	145	141	141	148	155
25	99	80	56	53	59	54	94	145	140	142	147	150
26	99	78	56	54	59	53	92	145	139	139	145	144
27	97	78	56	54	57	54	94	142	142	141	142	148
28	101	75	63	54	59	54	94	142	141	141	144	152
29	97	77	59	54	------	54	170	145	139	140	152	150
30	97	75	61	54	------	54	132	142	140	141	156	173
31	99	------	61	54	------	53	------	140	------	140	154	------
TOTAL	3,018	2,342	1,762	1,775	1,609	8,977	3,914	4,585	4,435	4,428	4,710	4,603
MEAN	97.4	78.1	56.8	57.3	57.5	290	130	148	148	143	152	153
MAX	101	112	63	80	103	1,750	640	199	320	187	181	173
MIN	90	75	56	53	54	53	88	132	135	138	142	142
AC-FT	5,990	4,650	3,490	3,520	3,190	17,810	7,760	9,090	8,800	8,780	9,340	9,130
MEAN†	2,332	2,397	2,425	2,475	2,638	3,597	3,385	2,122	1,943	1,782	1,813	1,904
AC-FT†	143,400	142,600	149,100	152,200	146,500	21,200	201,400	130,500	115,600	109,600	111,500	113,300

CAL YR 1965 TOTAL 390,539 MEAN 1,070 MAX 10,300 MIN 40 AC-FT 774,600 MEAN† 3,301 AC-FT† 2,390,000
WTR YR 1966 TOTAL 46,158 MEAN 126 MAX 1,750 MIN 53 AC-FT 91,550 MEAN† 2,399 AC-FT† 1,737,000

† ADJUSTED FOR DIVERSION TO PIT NO. 4 POWERPLANT.

11362500 PIT RIVER BELOW PIT NO. 4 DAM, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	130	90	69	53	3,820	53	159	941	321	149	145	158
2	92	89	69	52	5,470	53	147	645	392	151	151	155
3	90	89	68	56	6,300	56	112	533	426	147	151	154
4	89	88	72	54	5,230	58	122	434	394	152	145	154
5	88	84	83	55	3,510	57	91	413	291	145	151	151
6	92	85	63	53	1,890	53	113	455	236	150	154	156
7	91	87	615	56	1,040	50	155	457	222	151	152	161
8	89	85	228	55	618	53	161	540	187	151	149	161
9	94	78	66	55	242	53	161	711	177	147	145	150
10	100	76	59	56	142	56	152	1,290	103	155	146	158
11	92	79	62	55	68	62	128	1,670	97	151	151	168
12	89	80	63	55	71	55	116	1,910	123	151	151	176
13	89	79	60	52	324	55	113	1,880	145	152	151	162
14	90	81	58	58	695	55	115	1,640	170	153	163	178
15	92	136	56	52	598	55	121	1,540	151	155	151	161
16	94	89	55	54	413	82	575	1,610	165	156	145	175
17	94	82	54	54	65	1,590	732	1,360	167	157	146	180
18	96	82	54	54	59	2,850	697	1,200	157	206	147	169
19	110	82	54	54	57	2,880	761	1,230	161	149	145	172
20	114	86	54	55	57	2,140	728	1,390	156	159	156	166
21	112	79	54	62	57	1,590	581	1,460	149	147	158	179
22	112	79	54	56	57	1,110	310	1,360	148	144	151	188
23	108	83	54	57	56	910	156	1,420	147	150	150	193
24	113	85	54	56	55	1,060	684	1,320	150	152	150	186
25	113	86	54	55	54	821	762	1,130	152	148	147	190
26	114	86	54	56	56	507	1,200	879	148	151	146	185
27	113	72	54	56	55	258	1,750	703	151	146	147	177
28	114	75	54	59	56	62	1,660	616	150	154	154	181
29	112	73	60	301	------	53	1,440	566	150	141	159	195
30	113	73	58	107	------	50	1,330	438	152	146	160	185
31	114	------	57	1,820	------	51	------	361	------	154	160	------
TOTAL	3,153	2,518	2,569	3,773	31,115	16,838	15,332	32,102	5,738	4,720	4,677	5,124
MEAN	102	83.9	82.9	122	1,111	543	511	1,036	191	152	151	171
MAX	130	136	615	1,820	6,300	2,880	1,750	1,910	426	206	163	195
MIN	88	72	54	52	54	50	91	361	97	141	145	150
AC-FT	6,250	4,990	5,100	7,480	61,720	33,400	30,410	63,670	11,380	9,360	9,280	10,160
MEAN†	1,991	2,339	3,129	2,648	4,716	4,009	4,082	4,611	3,440	2,002	2,038	1,676
AC-FT†	122,400	139,200	192,400	162,800	261,900	246,500	242,900	283,500	204,700	123,100	125,300	99,740

CAL YR 1966 TOTAL 47,276 MEAN 130 MAX 1,750 MIN 53 AC-FT 93,770 MEAN† 2,425 AC-FT† 1,756,000
WTR YR 1967 TOTAL 127,659 MEAN 350 MAX 6,300 MIN 50 AC-FT 253,200 MEAN† 3,045 AC-FT† 2,204,000

† ADJUSTED FOR DIVERSION TO PIT NO. 4 POWERPLANT.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	156	102	82	60	56	1,530	100	156	168	154	164	178
2	608	85	85	59	59	985	109	181	168	154	173	173
3	753	83	88	58	61	679	102	189	181	152	159	183
4	709	82	92	57	59	364	104	176	183	149	161	173
5	737	80	91	58	59	332	104	247	189	159	168	183
6	692	79	71	58	58	232	104	149	183	159	168	173
7	134	77	73	57	59	202	104	145	171	156	176	178
8	110	78	71	57	57	104	104	164	178	159	176	186
9	720	78	70	58	57	59	102	152	168	161	178	173
10	1,170	76	70	57	52	87	104	156	168	154	178	181
11	1,130	75	64	57	52	66	104	159	183	161	176	178
12	1,000	76	60	56	52	66	104	173	178	159	166	168
13	771	78	59	57	52	71	102	173	183	154	168	173
14	107	78	59	62	52	79	104	161	178	161	173	168
15	111	77	59	69	51	77	104	183	161	159	166	176
16	108	77	60	62	52	123	104	189	156	159	166	171
17	106	76	61	59	59	545	102	176	164	156	173	171
18	107	77	61	58	57	390	102	173	166	156	178	176
19	107	77	60	58	68	250	96	173	164	156	186	161
20	112	76	60	56	2,510	136	100	186	161	154	181	181
21	114	78	61	56	4,670	96	102	176	159	154	183	176
22	107	78	60	57	7,470	74	113	156	159	154	164	171
23	109	78	60	58	8,790	1,760	109	164	154	154	176	171
24	110	79	60	57	9,100	84	109	149	154	145	161	154
25	110	77	60	57	7,970	74	107	166	154	154	173	168
26	109	78	60	56	6,550	68	107	166	140	156	176	173
27	108	80	60	56	4,960	68	107	168	149	152	164	171
28	108	78	60	57	3,560	65	107	178	152	156	176	171
29	107	78	60	57	2,350	63	111	176	152	161	171	176
30	106	79	60	57	------	63	109	166	152	168	176	161
31	109	------	59	56	------	63	------	173	------	166	176	------
TOTAL	10,645	2,370	2,056	1,797	59,002	8,855	3,140	5,299	4,976	4,852	5,330	5,196
MEAN	343	79.0	66.3	58.0	2,035	286	105	171	166	157	172	173
MAX	1,170	102	92	69	9,100	1,760	113	247	189	168	186	186
MIN	106	75	59	56	51	59	96	145	140	145	159	154
AC-FT	21,110	4,700	4,080	3,560	117,000	17,560	6,230	10,510	9,870	9,620	10,570	10,310
MEAN†	2,239	2,259	2,348	2,565	5,289	3,757	2,854	2,625	2,044	2,056	2,033	2,168
AC-FT†	137,700	134,400	144,400	157,700	304,200	231,000	169,800	161,400	121,600	126,400	125,000	129,000

CAL YR 1967 TOTAL 134,490 MEAN 368 MAX 6,300 MIN 50 AC-FT 266,800 MEAN† 2,993 AC-FT† 2,167,000
WTR YR 1968 TOTAL 113,518 MEAN 310 MAX 9,100 MIN 51 AC-FT 225,200 MEAN† 2,676 AC-FT† 1,943,000

† ADJUSTED FOR DIVERSION TO PIT NO. 4 POWERPLANT.

11362500 PIT RIVER BELOW PIT NO. 4 DAM, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136	111	79	51	998	52	5,350	1,220	194	154	156	156
2	119	81	77	51	518	51	5,450	1,110	168	156	156	156
3	107	69	58	54	479	51	5,420	868	168	149	156	156
4	107	69	45	54	314	51	5,420	938	152	159	156	156
5	104	77	46	52	199	58	3,940	834	173	161	154	156
6	107	79	54	51	204	50	3,680	726	161	159	149	156
7	111	84	55	54	26	51	3,270	720	161	159	156	159
8	115	82	55	52	24	51	2,850	714	176	156	156	159
9	109	86	69	52	34	52	2,400	665	178	159	156	156
10	115	87	104	51	665	52	2,150	801	178	156	154	156
11	117	76	76	49	1,900	52	1,860	708	178	159	159	156
12	119	76	71	56	3,020	52	1,660	691	168	156	156	156
13	115	76	63	91	3,640	51	1,550	827	171	161	154	156
14	111	76	62	69	3,970	51	1,530	1,060	166	156	156	159
15	104	77	71	49	3,510	51	1,590	763	161	159	154	152
16	104	76	59	29	3,320	51	1,510	960	156	154	154	159
17	98	73	54	479	2,490	52	1,460	875	164	159	154	156
18	96	74	55	462	2,140	159	1,540	685	161	159	154	161
19	93	74	52	154	1,780	990	1,540	587	159	154	159	154
20	100	82	50	1,510	1,420	1,500	1,460	606	154	152	154	154
21	96	81	46	7,090	882	1,440	1,480	441	147	156	156	159
22	102	81	47	7,830	1,140	1,390	1,500	247	156	154	156	156
23	113	79	45	6,620	582	1,420	1,530	232	161	156	156	154
24	123	77	47	6,390	186	1,750	1,710	191	156	156	156	159
25	111	71	47	5,290	123	2,200	1,860	210	159	156	159	159
26	406	76	46	6,040	79	2,620	1,940	164	159	159	159	161
27	496	76	50	5,150	210	2,930	1,840	152	161	159	159	161
28	518	82	52	3,810	46	3,220	1,570	166	156	159	154	161
29	500	76	50	2,820	------	3,740	1,360	171	156	159	156	161
30	720	74	47	2,120	------	4,020	1,320	168	156	156	156	161
31	782	------	50	1,560	------	4,450	------	161	------	156	156	------
TOTAL	6,154	2,358	1,782	58,190	33,899	32,708	71,740	18,661	4,914	4,863	4,826	4,721
MEAN	199	78.6	57.5	1,877	1,211	1,055	2,391	602	164	157	156	157
MAX	782	111	104	7,830	3,970	4,450	5,450	1,220	194	161	159	161
MIN	93	69	45	29	24	50	1,320	152	147	149	149	152
AC-FT	12,210	4,680	3,530	115,400	67,240	64,880	142,300	37,010	9,750	9,650	9,570	9,360
MEAN†	2,402	2,598	2,638	5,097	4,989	4,692	6,280	4,386	2,860	2,729	1,987	2,284
AC-FT†	147,700	154,600	162,200	313,400	277,100	288,500	373,700	269,700	170,200	167,800	122,200	135,900

CAL YR 1968 TOTAL 108,741 MEAN 297 MAX 9,100 MIN 45 AC-FT 215,700 MEAN† 2,743 AC-FT† 1,991,000
WTR YR 1969 TOTAL 244,816 MEAN 671 MAX 7,830 MIN 24 AC-FT 485,600 MEAN† 3,568 AC-FT† 2,583,000

† ADJUSTED FOR DIVERSION TO PIT NO. 4 POWERPLANT.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	130	106	26	58	5,370	461	116	171	156	156	154	166
2	103	91	22	59	4,000	473	87	166	160	160	156	147
3	103	76	22	41	3,450	1,190	104	180	156	156	160	160
4	103	74	22	46	2,900	1,410	104	171	154	154	160	160
5	105	75	29	60	2,680	1,200	105	162	158	154	158	164
6	104	76	36	86	2,320	728	104	158	158	152	160	162
7	105	74	35	162	2,080	716	104	175	154	160	160	160
8	104	74	36	95	1,980	1,490	104	158	152	160	162	158
9	104	73	36	48	1,740	2,540	104	154	156	154	162	158
10	104	73	44	52	1,770	2,960	102	164	160	156	152	158
11	102	74	42	50	1,130	2,880	107	152	160	154	156	164
12	103	73	68	54	1,130	2,600	107	147	162	158	164	171
13	105	74	38	65	1,320	2,470	107	140	160	154	166	171
14	105	84	36	385	1,480	2,080	107	154	162	166	160	164
15	106	76	35	5,030	1,480	1,850	107	173	168	173	164	158
16	107	75	35	7,060	1,790	1,540	107	166	164	162	164	154
17	106	75	35	10,600	2,140	1,340	105	175	166	156	160	149
18	104	75	37	10,700	2,220	970	105	175	160	158	154	158
19	103	76	61	11,100	2,050	751	104	162	160	156	158	160
20	105	76	50	9,060	1,550	546	102	158	162	158	158	158
21	104	76	60	8,500	1,300	463	102	156	164	154	152	152
22	106	76	2,700	9,720	963	371	102	164	160	152	152	156
23	105	75	2,950	12,200	747	280	104	166	162	152	154	158
24	105	75	2,360	20,800	635	201	100	156	162	152	152	154
25	104	75	1,660	26,800	546	134	102	147	162	158	152	158
26	104	77	1,400	23,400	435	85	100	158	156	156	158	149
27	104	75	923	20,500	387	60	102	158	160	158	168	147
28	103	76	484	16,900	300	49	102	162	162	152	154	147
29	106	77	93	13,400	------	48	102	162	154	154	160	142
30	106	76	38	10,300	------	50	102	158	162	162	158	147
31	107	------	56	7,420	------	56	------	160	------	152	166	------
TOTAL	3,265	2,308	13,469	224,751	49,893	31,992	3,110	5,008	4,792	4,859	4,914	4,710
MEAN	105	76.9	434	7,250	1,782	1,032	104	162	160	157	159	157
MAX	130	106	2,950	26,800	5,370	2,960	116	180	168	173	168	171
MIN	102	73	22	41	300	48	87	140	152	152	152	142
AC-FT	6,480	4,580	26,720	445,800	98,960	63,460	6,170	9,930	9,500	9,640	9,750	9,340
MEAN†	2,652	2,458	3,198	10,370	5,592	4,543	3,077	3,131	2,383	2,295	1,938	2,258
AC-FT†	163,080	146,280	196,620	637,800	310,560	279,360	183,070	192,530	146,800	141,140	119,150	134,340

CAL YR 1969 TOTAL 253,564 MEAN 695 MAX 7,830 MIN 22 AC-FT 502,900 MEAN† 3,625 AC-FT† 2,624,480
WTR YR 1970 TOTAL 353,071 MEAN 967 MAX 26,800 MIN 22 AC-FT 700,300 MEAN† 3,654 AC-FT† 2,645,730

† ADJUSTED FOR DIVERSION TO PIT NO. 4 POWERPLANT.

11363000 PIT RIVER AT BIG BEND, CALIF.

LOCATION.--Lat 41°01'10", long 121°54'36", in NW¼SW¼ sec.31, T.37 N., R.1 E., Shasta County, on left bank at Big Bend, 0.4 mile downstream from Nelson Creek and 1.5 miles upstream from Kosk Creek.

DRAINAGE AREA.--4,710 sq mi, excluding Goose Lake basin.

PERIOD OF RECORD.--October 1910 to September 1970. Monthly discharge only for some periods, published in WSP 1315-A. Published as "at Henderson" 1910-23.

GAGE.--Water-stage recorder. Datum of gage is 1,674.47 ft above mean sea level. Prior to Dec. 28, 1912, nonrecording gage and Dec. 28, 1912, to June 21, 1924, water-stage recorder, at present site at datum 7.69 ft higher.

AVERAGE DISCHARGE.--33 years (1910-43), prior to diversion to Pit No. 5 powerplant, 2,931 cfs (2,122,000 acre-ft per year); 27 years (1943-70), 569 cfs (412,200 acre-ft per year), unadjusted.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Mar. 16, 1966	5,600	10.62	Dec. 19, 21, 22, 1965	49
1967	Feb. 2, 1967	13,300	13.31	Jan. 15, 1967	62
1968	Feb. 23, 1968	15,000	13.68	Dec. 14, 16,1967, Jan. 5-8, 1968	51
1969	Jan. 22, 1969	16,000	13.95	Dec. 6, 1968	58
1970	Jan. 25, 1970	49,000	a18.17	Dec. 7, 1969	50

a In gage well, 19.0 ft, from floodmarks.

Period of record: Maximum discharge, 49,000 cfs Jan. 25, 1970 (gage height, 18.17 ft in gage well, 19.0 ft, from floodmarks), from rating curve extended above 17,000 cfs, partly affected by gate operation at Pit No. 4 Dam; minimum daily, 34 cfs Mar. 29, 1955.

REMARKS.--Flow regulated by many reservoirs and powerplants (total usable reservoir capacity, about 253,000 acre-ft). Many diversions above station; diversion to Pit No. 5 powerhouse began May 1, 1944. See schematic diagram of Pit and McCloud River basins elsewhere in this report.

COOPERATION.--Records collected by Pacific Gas & Electric Co., under general supervision of the Geological Survey, in connection with a Federal Power Commission project.

REVISIONS (WATER YEARS).--WSP 1345: 1911, 1914(M), 1916(M), 1917, 1928, 1935-36(M). WSP 1931: Drainage area.

DISCHARGF, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124	91	90	74	85	112	324	238	162	131	121	119
2	127	86	55	70	81	108	332	239	160	130	122	120
3	123	87	55	73	82	103	324	236	160	126	121	117
4	120	86	55	133	106	102	311	229	152	125	119	115
5	122	86	55	158	140	107	303	234	146	128	119	114
6	126	85	55	225	149	115	302	226	153	129	117	141
7	120	94	55	164	126	140	303	224	151	130	118	116
8	123	97	55	149	116	209	297	216	150	131	114	116
9	121	89	55	131	110	288	355	211	148	129	115	110
10	123	86	55	116	105	728	430	204	151	124	116	113
11	118	91	55	108	101	1,430	839	198	149	131	119	114
12	118	105	53	98	97	2,060	879	193	144	128	117	117
13	118	112	53	96	92	1,750	743	197	137	130	119	118
14	116	114	54	92	93	1,760	1,190	187	137	126	115	117
15	111	109	53	92	92	1,320	1,090	185	134	122	115	116
16	114	102	52	90	90	2,030	984	178	136	125	115	112
17	110	119	53	87	89	2,840	857	180	135	120	117	112
18	117	123	51	85	90	1,110	759	176	138	123	117	113
19	115	137	49	82	110	712	365	172	138	127	117	113
20	111	163	50	80	110	650	251	172	136	128	114	110
21	114	141	49	80	107	364	234	165	135	127	110	113
22	113	147	49	79	111	192	222	168	134	120	114	113
23	116	113	51	77	128	189	215	165	134	117	114	114
24	108	135	58	75	129	195	211	162	132	113	118	115
25	115	123	53	75	124	201	211	162	130	122	115	112
26	112	122	49	74	119	212	205	159	128	118	114	114
27	113	116	51	73	117	229	194	157	129	121	113	110
28	114	120	94	72	114	250	187	155	132	119	115	110
29	107	120	99	79	------	274	190	155	131	124	118	112
30	109	120	91	84	------	291	245	152	127	118	117	114
31	100	------	90	85	------	309	------	158	------	116	116	------
TOTAL	3,598	3,319	1,842	3,056	3,013	20,380	13,352	5,853	4,229	3,858	3,611	3,450
MEAN	116	111	59.4	98.6	108	657	445	189	141	124	116	115
MAX	127	163	99	225	149	2,840	1,190	239	162	131	122	141
MIN	100	85	49	70	81	102	187	152	127	113	110	110
AC-FT	7,140	6,580	3,650	6,060	5,980	40,420	26,480	11,610	8,390	7,650	7,160	6,840

CAL YR 1965 TOTAL 273,929 MEAN 750 MAX 8,240 MIN 49 AC-FT 543,300
WTR YR 1966 TOTAL 69,561 MEAN 191 MAX 2,840 MIN 49 AC-FT 138,000

11363000 PIT RIVFR AT BIG BEND, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	100	169	73	4,850	132	530	1,570	880	154	135	122
2	110	84	233	72	6,060	130	413	1,260	954	153	133	119
3	113	84	208	72	6,910	129	318	1,090	971	159	129	116
4	115	85	754	72	5,830	125	225	1,000	956	152	131	118
5	112	82	611	72	4,300	122	237	1,050	827	160	124	119
6	115	96	929	71	2,640	120	258	1,040	768	155	129	118
7	113	80	994	69	1,750	118	269	1,100	746	150	127	118
8	112	82	563	69	1,250	117	231	1,220	651	150	129	122
9	115	81	494	69	812	118	263	1,450	666	151	129	124
10	115	83	207	67	711	163	271	2,040	583	149	126	124
11	112	86	129	67	553	206	303	2,330	530	148	127	119
12	111	100	152	66	580	161	332	2,610	574	149	128	118
13	111	97	134	64	817	160	349	2,580	567	148	126	114
14	106	109	121	66	1,180	153	361	2,330	595	143	127	121
15	107	115	114	62	1,190	154	613	2,220	419	139	127	118
16	105	132	110	63	1,010	422	1,180	2,340	204	138	126	118
17	108	98	107	65	563	2,080	1,450	2,140	199	142	124	118
18	115	90	103	63	492	3,760	1,420	1,980	198	145	120	121
19	107	124	100	64	357	3,630	1,440	2,010	203	143	121	119
20	106	211	96	81	343	2,940	1,430	2,150	189	139	117	120
21	105	167	94	175	214	2,300	1,270	2,210	186	141	124	119
22	108	140	91	113	146	1,810	1,780	2,080	184	139	123	116
23	112	113	90	93	142	1,670	522	2,170	182	140	124	119
24	99	105	87	92	144	1,760	1,230	2,050	177	138	121	113
25	71	103	85	87	148	1,590	1,400	1,840	170	135	123	118
26	74	102	83	99	138	1,280	1,770	1,570	170	140	117	117
27	74	98	81	117	134	987	2,380	1,390	165	138	115	118
28	86	119	80	200	132	722	2,320	1,310	165	141	121	115
29	104	153	78	988	------	655	2,060	1,200	163	133	125	116
30	106	117	77	1,280	------	640	1,950	1,070	158	136	123	116
31	108	------	76	2,690	------	612	------	894	------	134	122	------
TOTAL	3,264	3,236	7,250	7,301	43,396	28,966	28,575	53,294	13,400	4,482	3,873	3,553
MEAN	105	108	234	236	1,550	934	953	1,719	447	145	125	118
MAX	115	211	994	2,690	6,910	3,760	2,380	2,610	971	160	135	124
MIN	71	80	76	62	132	117	225	894	158	133	115	113
AC-FT	6,470	6,420	14,380	14,480	86,080	57,450	56,680	105,700	26,580	8,890	7,680	7,050

CAL YR 1966 TOTAL 74,552 MEAN 204 MAX 2,840 MIN 70 AC-FT 147,900
WTR YR 1967 TOTAL 200,590 MEAN 550 MAX 6,910 MIN 62 AC-FT 397,900

DISCHARGF, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	103	80	56	77	2,560	465	148	160	130	117	118
2	128	94	60	53	81	1,990	355	176	153	131	121	116
3	120	92	87	53	92	1,670	457	175	153	130	116	113
4	120	90	653	52	87	1,340	241	178	151	123	116	122
5	117	87	98	51	84	1,280	329	174	169	128	113	118
6	119	87	68	51	91	1,750	285	172	160	123	115	114
7	117	88	70	51	92	1,870	184	170	160	120	119	114
8	113	91	61	51	94	1,190	186	171	153	128	121	114
9	115	92	58	59	98	826	260	168	147	125	119	118
10	114	90	57	82	101	676	214	166	149	121	115	116
11	118	89	56	61	104	510	181	163	149	123	118	117
12	117	87	54	55	105	626	177	163	148	123	113	117
13	115	91	53	56	103	516	169	202	150	124	115	118
14	118	112	51	94	471	637	164	183	148	123	116	116
15	117	92	52	1,050	756	685	171	176	140	122	116	116
16	116	89	51	968	1,010	884	155	174	142	124	121	115
17	117	90	52	109	1,470	1,240	148	170	142	124	117	117
18	113	90	56	85	1,500	1,090	145	167	139	123	117	117
19	115	99	52	78	1,120	909	141	168	141	122	132	121
20	117	90	52	76	3,510	857	136	332	139	116	137	118
21	119	89	52	81	6,270	525	133	212	136	121	126	120
22	117	87	52	88	9,150	558	133	207	131	119	122	114
23	112	94	52	84	11,000	416	126	197	128	116	122	115
24	113	95	56	81	11,300	625	123	183	130	119	118	120
25	111	93	63	80	9,560	513	124	185	131	121	121	120
26	113	92	66	77	8,130	347	122	175	133	119	118	119
27	114	96	69	72	6,090	292	122	174	133	117	121	117
28	113	90	66	71	4,850	379	121	168	131	115	121	121
29	112	100	61	105	3,510	443	121	167	128	115	119	115
30	108	97	58	113	------	384	120	164	130	116	118	117
31	113	------	55	79	------	376	------	163	------	116	114	------
TOTAL	3,586	2,776	2,471	4,122	80,906	27,964	5,808	5,591	4,304	3,777	3,694	3,513
MEAN	116	92.5	79.7	133	2,790	902	194	180	143	122	119	117
MAX	128	112	653	1,050	11,300	2,560	465	332	169	131	137	122
MIN	108	87	51	51	77	292	120	148	128	115	113	113
AC-FT	7,110	5,510	4,900	8,180	160,500	55,470	11,520	11,090	8,540	7,490	7,330	6,970

CAL YR 1967 TOTAL 195,673 MEAN 536 MAX 6,910 MIN 51 AC-FT 388,100
WTR YR 1968 TOTAL 148,512 MEAN 406 MAX 11,300 MIN 51 AC-FT 294,600

11363000 PIT RIVER AT BIG BEND, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	109	102	77	1,770	696	6,440	2,180	225	153	131	115
2	122	116	62	77	1,330	673	6,440	2,000	223	155	128	123
3	117	107	60	77	1,120	646	6,420	1,980	218	152	125	122
4	122	105	59	84	917	633	5,870	1,900	210	150	128	121
5	121	106	60	88	700	557	5,350	1,770	200	149	131	125
6	120	99	58	91	784	285	4,890	1,630	198	142	129	115
7	116	101	59	89	546	621	4,440	1,670	192	150	132	120
8	123	97	65	86	549	608	3,940	1,680	198	150	132	125
9	120	96	72	83	821	429	3,440	1,650	202	145	127	122
10	121	94	370	82	1,330	456	3,170	1,800	198	145	129	122
11	262	112	935	89	3,040	231	2,890	1,720	204	145	129	122
12	761	112	909	129	4,300	165	2,700	1,680	194	139	128	123
13	784	102	893	650	4,440	165	2,560	1,590	192	141	127	123
14	546	101	784	300	5,060	177	2,520	1,720	183	144	127	119
15	136	105	770	188	4,590	167	2,560	1,620	181	142	127	121
16	131	102	573	494	4,440	170	2,510	1,810	181	138	120	120
17	123	103	111	961	3,500	212	2,460	1,740	181	139	116	119
18	119	111	97	1,060	3,010	449	2,590	1,530	179	139	121	120
19	117	105	93	867	2,610	1,600	2,570	1,370	177	132	127	120
20	117	101	86	2,330	2,240	2,120	2,500	1,230	177	131	127	121
21	117	101	85	9,300	1,630	2,180	2,550	1,160	172	129	125	120
22	122	102	84	9,530	1,850	2,150	2,600	929	170	139	126	117
23	116	101	83	7,840	1,350	2,160	2,720	837	163	138	125	119
24	117	105	82	7,320	911	2,500	2,830	810	163	135	122	121
25	114	105	81	6,370	714	3,070	2,900	810	163	132	126	120
26	123	101	81	7,180	691	3,390	2,960	501	163	135	126	120
27	120	101	79	6,340	865	3,850	2,860	416	163	129	123	122
28	116	99	80	4,810	691	4,270	2,600	355	158	132	125	122
29	123	94	80	3,750	------	4,830	2,360	257	153	135	122	122
30	122	105	79	2,950	------	5,120	2,310	240	153	132	122	122
31	123	------	78	2,340	------	5,600	------	231	------	134	121	------
TOTAL	5,610	3,098	7,110	75,632	55,799	50,180	102,950	40,816	5,534	4,351	3,904	3,623
MEAN	181	103	229	2,440	1,993	1,619	3,432	1,317	184	140	126	121
MAX	784	116	935	9,530	5,060	5,600	6,440	2,180	225	155	132	125
MIN	114	94	58	77	546	165	2,310	231	153	129	116	115
AC-FT	11,130	6,140	14,100	150,000	110,700	99,530	204,200	80,960	10,980	8,630	7,740	7,190

CAL YR 1968 TOTAL 155,497 MEAN 425 MAX 11,300 MIN 51 AC-FT 30B,400
WTR YR 1969 TOTAL 358,607 MEAN 982 MAX 9,530 MIN 58 AC-FT 711,300

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122	96	77	108	6,970	1,230	151	134	141	134	119	123
2	118	99	53	103	4,930	1,280	147	169	145	140	114	118
3	120	97	52	99	4,550	1,880	143	173	143	140	121	121
4	121	95	51	95	3,990	2,170	138	173	143	140	123	121
5	120	120	52	90	3,530	1,760	134	171	140	134	128	123
6	118	113	51	89	3,250	1,400	130	170	138	138	126	121
7	119	109	50	87	2,800	1,480	126	169	138	138	126	123
8	123	97	55	95	2,680	2,160	123	174	140	138	114	123
9	121	96	55	165	2,430	3,270	121	173	143	140	114	125
10	122	98	70	281	2,230	3,780	121	172	141	138	121	119
11	122	97	111	208	1,900	3,680	118	167	134	126	125	125
12	115	99	456	300	1,930	3,390	118	167	138	138	121	119
13	119	97	300	884	2,020	3,230	116	163	145	132	123	123
14	125	93	123	1,800	2,170	2,860	112	163	147	132	121	123
15	130	100	103	6,750	2,080	2,520	114	161	143	132	119	123
16	134	96	92	9,000	2,110	2,220	109	163	140	134	123	123
17	127	96	87	13,600	2,670	2,040	108	165	145	132	125	121
18	126	96	85	13,100	3,060	1,660	104	162	138	123	123	125
19	117	98	246	13,200	2,880	1,480	103	160	140	116	125	126
20	120	98	738	10,900	2,330	1,230	103	159	141	123	125	125
21	117	99	1,030	11,400	2,080	1,070	101	160	140	132	119	123
22	122	96	3,320	13,900	1,740	959	103	155	138	126	114	121
23	119	98	3,880	16,700	1,520	867	101	151	138	123	118	123
24	120	94	3,260	24,100	1,390	790	99	151	138	126	119	118
25	119	89	2,450	29,100	1,270	718	99	151	138	119	116	123
26	123	90	2,110	24,000	1,140	658	101	153	136	118	116	116
27	123	97	1,600	24,900	1,110	618	96	151	138	126	119	112
28	120	95	1,140	20,700	1,100	746	94	149	145	121	123	118
29	119	93	681	16,000	------	446	93	145	141	126	114	118
30	122	92	521	11,900	------	298	91	141	140	125	119	121
31	115	------	124	9,260	------	255	------	145	------	126	121	------
TOTAL	3,758	2,933	23,023	272,914	71,860	52,145	3,417	4,960	4,215	4,036	3,734	3,643
MEAN	121	97.8	743	8,804	2,566	1,682	114	160	141	130	120	121
MAX	134	120	3,880	29,100	6,970	3,780	151	174	147	140	128	126
MIN	115	89	50	87	1,100	255	91	134	134	116	114	112
AC-FT	7,450	5,820	45,670	541,300	142,500	103,400	6,780	9,840	8,360	8,010	7,410	7,230

CAL YR 1969 TOTAL 372,503 MEAN 1,021 MAX 9,530 MIN 50 AC-FT 738,900
WTR YR 1970 TOTAL 450,638 MEAN 1,235 MAX 29,100 MIN 50 AC-FT 893,800

11363910 JAMES B. BLACK POWERPLANT NEAR BIG BEND, CALIF.

LOCATION.--Lat 40°59'12", long 121°58'35", in SW¼SE¼ sec.9, T.36 N., R.1 W., Shasta County, at powerplant on right bank of Pit River, 5.8 miles downstream from Big Bend.

PERIOD OF RECORD.--December 1965 to September 1970.

GAGE.--Recorded output from powerplant turbines.

EXTREMES.--Period of record: Maximum daily discharge, 2,420 cfs July 15, 1966; no flow for several days in each year.

REMARKS.--Water is diverted from McCloud Reservoir (see station 11367740) in SE¼SW¼ sec.22, T.38 N., R.2 W., to Iron Canyon Reservoir (see station 11363920) and then into the penstock for James B. Black powerplant. Records are combined flow of diversion from McCloud River at McCloud Dam plus Iron Canyon Creek.

COOPERATION.--Records furnished by Pacific Gas & Electric Co., in connection with a Federal Power Commission project.

DISCHARGE, IN CUBIC FEET PER SECOND, DECEMBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				998	693	842	1,710	738	106	287	599	517
2				1,000	645	1,060	1,620	1,700	0	413	978	1,190
3				988	657	1,070	1,460	1,580	1,340	953	741	1,520
4				998	661	1,070	1,770	1,070	2,100	1,170	820	569
5				993	861	928	1,640	1,150	2,100	741	737	0
6				993	923	897	1,640	1,880	1,520	464	1,550	357
7				991	975	726	1,630	1,800	1,310	560	760	154
8				997	966	1,070	1,560	762	1,430	1,370	1,240	88
9				994	998	1,100	1,200	1,790	1,500	1,200	1,100	246
10				997	952	1,100	2,030	757	870	1,840	855	0
11				995	1,020	1,100	2,140	1,010	1.0	2,000	891	0
12				993	1,000	1,090	1,870	790	0	1,890	956	269
13				997	1,010	1,640	1,810	1,080	1,010	1,100	21	700
14				937	1,040	2,170	1,820	1,010	979	2,120	0	682
15				997	894	1,860	1,800	1,590	460	2,420	839	484
16				999	696	2,150	1,800	989	965	1,740	924	1,050
17			524	998	1,020	2,140	1,800	786	792	1,220	962	1,130
18			998	999	1,650	2,140	1,700	1,260	768	1,140	906	613
19			1,010	901	184	2,120	1,840	1,010	934	1,580	885	619
20			954	967	703	2,100	1,590	1,020	862	1,350	0	665
21			956	930	692	1,810	1,330	1,240	1,120	1,570	0	851
22			989	1,030	997	1,770	1,470	1,510	1,280	1,100	936	1,170
23			993	1,030	734	1,710	1,530	942	937	30	1,210	970
24			994	1,010	1,100	1,760	1,460	937	1,040	0	1,240	649
25			997	909	957	1,740	1,510	535	876	1,260	1,170	571
26			1,000	1,020	966	1,640	1,670	679	615	1,970	969	1,020
27			957	675	982	1,340	1,920	1,190	636	1,770	1,170	1,000
28			1,000	1,020	973	1,460	1,710	1,160	550	1,310	825	960
29			997	1,000	------	1,660	1,660	860	865	1,910	1,010	934
30			990	1,000	------	1,760	1,410	1,190	1,490	1,360	1,180	824
31		------	995	1,010	------	1,730	------	1,160	------	1,210	1,070	------
TOTAL				30,366	24,949	46,753	50,100	35,175	28,456.0	39,048	26,544	19,802
MEAN				980	891	1,508	1,670	1,135	949	1,260	856	660
MAX				1,030	1,650	2,170	2,140	1,880	2,100	2,420	1,550	1,520
MIN				675	184	726	1,200	535	0	0	0	0
AC-FT				60,230	49,490	92,730	99,370	69,770	56,440	77,450	52,650	39,280

11363910 JAMES B. BLACK POWERPLANT NEAR BIG BEND, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	824	828	947	831	2,150	1,250	1,580	1,720	1,800	602	1,100	792
2	825	741	1,710	977	2,230	1,150	1,540	1,900	1,850	555	1,280	0
3	823	1,360	2,020	918	1,490	1,010	1,980	1,940	1,770	1,460	1,300	197
4	820	1,010	1,620	1,050	1,260	855	1,880	1,540	1,810	995	1,200	302
5	820	813	1,040	1,270	1,050	977	1,900	1,680	1,870	1,790	519	918
6	810	1,190	392	1,460	1,870	1,240	1,150	1,470	1,770	1,800	163	1,090
7	965	1,090	325	1,170	1,880	968	2,030	1,580	1,790	1,830	1,120	1,630
8	1,310	1,280	277	777	1,820	980	1,490	1,590	1,710	1,330	1,620	1,260
9	760	1,290	277	984	1,640	984	1,500	2,060	1,830	1,090	1,460	610
10	875	1,130	227	943	956	1,020	2,060	1,710	1,760	924	1,030	5.0
11	900	797	427	1,420	767	1,030	2,040	1,790	1,770	943	978	852
12	900	134	1,500	1,110	961	1,070	1,650	1,870	1,810	1,450	359	1,800
13	981	0	1,810	1,020	984	1,100	1,690	1,770	1,720	1,680	59	2,010
14	1,070	577	1,960	1,050	974	1,130	1,990	1,640	1,830	1,540	991	1,780
15	27	940	2,020	991	827	1,120	1,760	1,850	1,730	1,160	847	1,860
16	0	572	1,940	1,230	904	1,090	681	1,740	1,760	750	947	5.0
17	939	766	2,110	1,190	784	1,360	2,020	1,830	1,710	1,210	949	0
18	983	950	2,250	1,240	1,220	2,100	2,210	1,770	1,660	802	1,050	1,390
19	982	930	2,280	1,420	1,340	1,870	1,800	1,850	1,740	790	524	1,700
20	968	1,410	2,230	1,450	1,980	1,360	1,740	1,910	1,730	1,280	589	1,550
21	837	1,780	1,110	817	1,690	938	1,690	1,960	1,740	1,160	1,270	1,120
22	181	2,070	1,320	459	1,410	947	1,600	1,940	1,780	383	905	1,080
23	941	1,920	1,330	288	1,420	945	608	1,850	1,740	874	1,630	0
24	1,080	935	1,610	436	1,410	1,030	1,370	1,880	1,710	1,300	1,150	0
25	899	1,230	1,310	252	1,320	877	2,280	1,860	1,500	1,520	874	1,500
26	829	1,560	1,310	477	1,450	1,120	1,970	1,800	1,810	1,400	808	1,080
27	799	1,530	1,400	612	1,340	1,120	1,660	1,860	1,530	1,250	847	1,010
28	872	1,300	1,450	770	1,310	1,860	1,720	1,760	1,810	1,300	1,250	1,360
29	502	1,120	1,230	864	------	1,840	1,390	2,000	1,590	849	1,150	1,210
30	308	1,120	1,210	1,740	------	1,390	951	1,710	1,410	10	1,060	5.0
31	924	------	1,570	2,150	------	1,940	------	1,890	------	977	856	------
TOTAL	24,754	32,373	42,212	31,366	38,437	37,671	49,930	55,720	52,040	35,004	29,885	28,116.0
MEAN	799	1,079	1,362	1,012	1,373	1,215	1,664	1,797	1,735	1,129	964	937
MAX	1,310	2,070	2,280	2,150	2,230	2,100	2,280	2,060	1,870	1,830	1,630	2,010
MIN	0	0	227	252	767	855	608	1,470	1,410	10	59	0
AC-FT	49,100	64,210	83,730	62,210	76,240	74,720	99,040	110,500	103,200	69,430	59,280	55,770

CAL YR 1966 TOTAL 400,532.00 MEAN 1,097 MAX 2,420 MIN 0 AC-FT 794,500
WTR YR 1967 TOTAL 457,508.00 MEAN 1,253 MAX 2,280 MIN 0 AC-FT 907,500

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	1,270	1,550	434	963	1,640	1,230	950	1,010	803	635	4.5
2	701	1,020	920	1,050	1,000	1,620	1,330	1,010	739	981	656	4.5
3	1,060	568	246	847	650	1,430	1,140	1,080	1,110	1,160	648	746
4	1,040	413	1,020	838	667	1,620	1,420	13	608	498	650	1,130
5	1,280	334	767	1,140	928	1,590	1,170	807	865	1,150	651	1,320
6	1,080	1,350	1,380	830	917	1,530	1,160	705	1,020	638	643	1,360
7	375	917	867	151	834	1,410	1,470	935	853	31	656	1,270
8	0	236	1,010	1,130	665	1,640	898	1,160	1,100	278	659	1,080
9	857	663	707	935	464	1,570	1,500	735	1,070	400	766	1,170
10	963	883	541	907	430	1,370	1,250	1,250	1,060	1,180	749	1,310
11	988	1,930	967	967	322	1,330	1,170	544	964	676	710	1,370
12	1,080	0	893	711	1,510	1,550	1,350	95	915	943	683	1,350
13	746	786	1,120	0	1,210	1,510	1,130	868	1,040	55	687	995
14	0	881	992	556	982	1,430	1,370	877	1,070	316	666	462
15	439	1,390	996	1,280	987	1,440	1,160	1,570	38	881	677	3.0
16	1,650	1,040	77	1,020	995	1,340	1,300	1,660	33	1,080	677	880
17	1,760	840	246	996	994	1,670	1,100	1,170	936	124	678	1,290
18	1,380	375	986	790	993	1,420	1,270	257	756	37	678	1,050
19	872	636	1,010	967	989	1,490	1,060	265	878	119	711	1,190
20	1,100	815	903	954	989	1,430	60	1,200	530	535	883	1,200
21	590	1,120	1,220	619	1,090	1,190	9.1	980	246	570	976	154
22	918	1,040	1,440	940	2,120	1,440	616	903	27	568	969	3.0
23	1,380	422	551	862	2,150	1,260	1,400	962	22	583	1,100	1,020
24	1,160	1,270	638	876	1,760	1,260	1,040	1,190	634	624	1,010	1,290
25	887	579	624	913	1,970	1,230	1,200	864	797	607	820	1,500
26	867	738	859	828	2,080	921	779	805	716	607	944	1,370
27	993	745	1,030	1,000	1,570	1,560	645	1,000	510	615	1,100	1,310
28	862	766	657	729	1,740	1,310	973	1,090	206	625	1,290	144
29	1,290	688	1,040	818	1,650	1,190	1,370	1,310	26	633	946	0
30	1,190	593	1,100	927	------	1,190	920	863	20	623	1,250	905
31	1,330	------	745	930	------	1,450	------	781	------	642	71	------
TOTAL	28,838	24,308	27,102	25,945	33,619	44,031	32,490.1	27,899	19,799	18,582	24,239	26,881.0
MEAN	930	810	874	837	1,159	1,420	1,083	900	660	599	782	896
MAX	1,760	1,930	1,550	1,280	2,150	1,670	1,500	1,660	1,110	1,180	1,290	1,500
MIN	0	0	77	0	322	921	9.1	13	20	31	71	0
AC-FT	57,200	48,210	53,760	51,460	66,680	87,340	64,440	55,340	39,270	36,860	48,080	53,320

CAL YR 1967 TOTAL 438,417.00 MEAN 1,201 MAX 2,280 MIN 0 AC-FT 869,600
WTR YR 1968 TOTAL 333,733.10 MEAN 912 MAX 2,150 MIN 0 AC-FT 662,000

11363910 JAMES B. BLACK POWERPLANT NEAR BIG BEND, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,140	922	661	644	1,360	1,290	1,310	1,780	1,530	537	907	0
2	1,150	444	752	1,050	1,660	1,250	1,140	1,670	1,560	801	113	882
3	862	316	786	783	1,540	908	1,120	1,650	1,560	1,310	212	1,390
4	1,040	603	608	240	1,090	994	1,710	1,230	1,590	246	761	1,300
5	245	913	631	59	1,460	1,200	1,460	1,810	1,480	0	1,020	1,300
6	3.0	740	839	730	1,460	1,180	1,130	1,560	1,570	0	1,320	188
7	1,040	834	687	615	1,250	1,440	1,670	1,500	1,540	218	1,360	439
8	990	677	523	728	1,740	1,520	1,730	1,600	1,420	212	1,130	1,160
9	143	23	938	668	1,500	1,370	1,520	1,560	1,600	231	239	1,270
10	711	393	495	995	1,610	1,100	1,490	1,560	1,460	513	98	1,430
11	791	687	1,080	595	1,610	1,090	1,580	1,560	1,570	1,010	986	1,620
12	562	854	1,060	250	1,670	1,430	1,430	1,520	1,320	1,030	1,250	1,960
13	535	963	1,340	755	1,770	1,380	1,530	1,590	1,350	679	1,420	1,990
14	820	980	1,160	883	1,640	1,120	1,600	1,510	1,390	1,200	1,280	2,020
15	578	1,090	990	1,030	1,420	1,240	918	1,550	1,230	1,400	1,440	2,040
16	628	219	1,340	763	1,510	1,100	1,640	1,540	1,440	1,240	659	1,600
17	770	39	1,030	820	1,540	1,090	1,420	1,520	1,510	1,370	78	1,270
18	661	1,150	1,070	729	1,520	1,150	1,680	1,390	1,240	1,720	797	517
19	816	887	1,250	502	1,690	974	1,580	1,560	1,460	968	1,300	0
20	370	831	1,030	1,020	1,510	1,390	1,600	1,530	943	1,050	1,460	0
21	757	830	1,080	1,990	1,460	1,200	1,640	1,500	1,360	1,080	903	0
22	1,050	738	795	2,050	1,470	1,090	1,540	1,620	1,070	1,210	509	0
23	763	414	823	2,060	1,430	804	1,720	1,620	1,080	733	0	41
24	860	134	881	2,070	1,470	1,240	1,570	1,390	1,140	413	411	2.0
25	710	607	960	2,060	1,400	1,140	1,600	1,360	1,140	461	746	0
26	52	921	1,090	1,910	1,490	1,440	1,700	1,590	1,180	0	894	0
27	3.0	1,170	1,350	1,470	1,380	1,020	1,510	1,600	1,310	0	985	0
28	713	610	1,180	1,910	1,350	1,000	1,620	1,540	384	930	1,100	0
29	902	455	1,010	2,030	------	1,520	1,420	1,500	634	1,250	613	0
30	1,080	403	1,290	1,510	------	1,400	1,570	1,610	853	1,400	11	330
31	1,070	------	819	1,560	------	1,300	------	1,460	------	1,100	0	------
TOTAL	21,815.0	19,847	29,548	34,479	42,000	37,370	45,148	47,980	38,914	24,312	24,002	22,749.0
MEAN	704	662	953	1,112	1,500	1,205	1,505	1,548	1,297	784	774	758
MAX	1,150	1,170	1,350	2,070	1,770	1,520	1,730	1,810	1,600	1,720	1,460	2,040
MIN	3.0	23	495	59	1,090	804	918	1,230	384	0	0	0
AC-FT	43,270	39,370	58,610	68,390	83,310	74,120	89,550	95,170	77,190	48,220	47,610	45,120

CAL YR 1968 TOTAL 324,695.10 MEAN 887 MAX 2,150 MIN 0 AC-FT 644,000
WTR YR 1969 TOTAL 388,164.00 MEAN 1,063 MAX 2,070 MIN 0 AC-FT 769,900

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	861	304	343	1,200	1,460	1,540	1,460	28	951	1,330	92	1,690
2	1,170	7.1	29	1,660	1,570	1,510	1,200	0	414	1,080	425	1,520
3	1,580	6.6	529	1,610	1,570	1,550	1,470	0	664	881	1,380	1,100
4	1,530	396	556	1,270	1,530	1,500	382	886	964	1,040	1,050	111
5	705	1,110	1,030	1,410	1,810	1,540	674	286	1,080	0	995	0
6	1,180	1,070	645	1,420	1,490	1,460	1,140	1,090	10	567	914	0
7	495	519	236	1,420	1,270	1,560	948	703	0	927	1,060	190
8	143	635	944	1,100	1,500	1,560	1,080	687	887	1,370	20	817
9	132	604	1,490	1,550	1,800	1,560	1,200	717	1,210	954	75	521
10	707	582	1,450	750	1,500	1,530	1,180	890	1,080	486	916	572
11	810	1,220	1,260	1,290	1,550	1,530	850	1,090	1,140	0	1,120	633
12	608	1,370	1,540	1,330	1,450	1,530	1,310	1,380	1,340	0	1,120	56
13	428	1,560	2,000	1,660	1,440	1,530	1,450	1,200	71	506	702	48
14	445	1,450	2,010	2,040	1,640	1,540	2,040	1,120	147	658	739	796
15	695	1,050	2,030	2,020	1,370	1,480	2,030	1,390	1,120	458	82	705
16	677	1,010	1,650	2,020	1,610	1,580	1,490	676	1,150	629	596	917
17	988	1,100	1,180	2,010	1,660	1,510	1,560	426	1,230	959	1,090	1,210
18	1,000	887	1,510	1,910	1,590	1,510	1,360	1,240	916	327	1,090	1,660
19	855	611	1,470	1,230	1,550	1,600	1,380	852	1,090	319	748	67
20	1,640	845	2,040	1,790	1,570	1,520	1,080	818	1,290	822	726	0
21	1,250	603	2,040	1,820	1,480	1,510	969	1,130	1,230	861	931	969
22	1,000	255	1,970	1,900	1,480	1,440	977	1,030	1,620	1,560	662	1,100
23	433	18	1,530	1,850	1,480	1,510	982	224	1,150	1,230	239	953
24	705	491	1,200	1,710	1,600	1,500	1,320	6.0	1,240	889	999	1,290
25	906	833	1,500	1,610	1,490	1,500	2,030	1,020	1,210	67	1,540	1,300
26	881	1,230	1,780	1,800	1,510	1,460	1,290	1,290	692	0	1,300	312
27	954	262	1,350	1,860	1,480	1,520	1,190	1,110	0	989	1,110	177
28	955	410	1,650	1,910	1,470	1,430	990	1,260	0	958	1,450	1,400
29	1,300	259	1,400	1,980	------	1,480	990	841	1,080	742	1,010	1,270
30	1,330	225	1,330	2,020	------	1,390	903	687	1,450	809	1,010	1,060
31	1,090	------	1,240	2,030	------	1,520	------	665	------	696	1,740	------
TOTAL	27,453	20,922.7	40,932	51,180	42,920	46,900	36,925	24,742.0	26,426	22,114	26,931	22,444
MEAN	886	697	1,320	1,651	1,533	1,513	1,231	798	881	713	869	748
MAX	1,640	1,560	2,040	2,040	1,810	1,600	2,040	1,390	1,620	1,560	1,740	1,690
MIN	132	6.6	29	750	1,270	1,390	382	0	0	0	20	0
AC-FT	54,450	41,500	81,190	101,500	85,130	93,030	73,240	49,080	52,420	43,860	53,420	44,520

CAL YR 1969 TOTAL 406,261.70 MEAN 1,113 MAX 2,070 MIN 0 AC-FT 805,800
WTR YR 1970 TOTAL 389,889.70 MEAN 1,068 MAX 2,040 MIN 0 AC-FT 773,300

11363920 IRON CANYON RESERVOIR NEAR BIG BEND, CALIF.

LOCATION.--Lat 41°02'41", long 121°58'52", in SW¼SE¼ sec.21, T.37 N., R.1 W., Shasta County, Shasta National Forest, in control house on left bank, 500 ft upstream from Iron Canyon Dam on Iron Canyon Creek and 3.7 miles northwest of Big Bend.

DRAINAGE AREA.--11.1 sq mi.

PERIOD OF RECORD.--December 1965 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Pacific Gas & Electric Co.).

EXTREMES.--Maximums and minimums (contents in acre-feet, elevation in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum		
Wtr yr	Date	Contents	Elevation	Date	Contents	Elevation
1966	July 24,25, Sept.11, 1966	16,900	2,648.80	Apr. 16, 17, 1966	3,200	2,593.00
1967	Dec. 11, 1966	17,600	2,650.50	Many days	2,860	2,590.00
1968	July 24, 1968	22,800	2,662.07	Mar. 22, 1968	3,150	2,592.60
1969	Sept.30, 1969	22,700	2,661.88	Feb. 20, 1969	3,110	2,592.22
1970	Oct. 1, 1969	21,375	2,659.10	Dec. 28, 1969	3,095	2,592.12

Period of record: Maximum contents, 22,800 acre-ft July 24, 1968 (elevation, 2,662.07 ft); minimum since initial operation of reservoir, 2,860 acre-ft May 23, 24, 29, June 2, 7, 9, 14, 23, 24, 1966 (elevation, 2,590.00 ft).

REMARKS.--Reservoir is formed by a rockfill dam completed in 1965. Capacity, 24,200 acre-ft between elevations 2,525.00 (invert of sluice pipe) and 2,665.00 ft (crest of spillway). No dead storage. Water diverted from McCloud Reservoir through a tunnel to Iron Canyon Reservoir and thence into Pit River via a powerplant. Beginning with the water year 1970, records of contents are not rounded to U.S. Geological Survey standards. See schematic diagram of Pit and McCloud River basins elsewhere in this report.

COOPERATION.--Record of contents furnished by Pacific Gas & Electric Co., under general supervision of the Geological Survey, in connection with a Federal Power Commission project.

MONTHEND ELEVATION AND CONTENTS, DECEMBER 1965 TO SEPTEMBER 1970

DATE	ELEVATION (FEET)	CONTENTS (ACRE-FEET)	CHANGE IN CONTENTS (ACRE-FEET)
DEC. 31, 1965.......	2,635.50	12,200	+12,200
CAL YR 1965.......	-	-	-
JAN. 31, 1966.......	2,625.20	9,260	-2,940
FEB. 28.............	2,629.83	10,500	+1,240
MAR. 31.............	2,601.67	4,360	-6,140
APR. 30.............	2,602.87	4,550	+190
MAY 31.............	2,641.40	14,200	+9,650
JUNE 30.............	2,627.30	9,830	-4,370
JULY 31.............	2,641.30	14,200	+4,370
AUG. 31.............	2,633.00	11,500	-2,700
SEPT.30.............	2,636.40	12,500	+1,000
WTR YR 1966.......	-	-	-
OCT. 31.............	2,631.80	11,100	-1,400
NOV. 30.............	2,606.40	5,130	-5,970
DEC. 31.............	2,614.90	6,780	+1,650
CAL YR 1966.......	-	-	-5,420
JAN. 31, 1967.......	2,616.60	7,150	+370
FEB. 28.............	2,601.30	4,300	-2,850
MAR. 31.............	2,600.70	4,220	-80
APR. 30.............	2,609.80	5,750	+1,530
MAY 31.............	2,591.00	2,970	-2,780
JUNE 30.............	2,596.60	3,650	+680
JULY 31.............	2,628.20	10,100	+6,450
AUG. 31.............	2,626.80	9,690	-410
SEPT.30.............	2,627.00	9,750	+60
WTR YR 1967.......	-	-	-2,750
OCT. 31.............	2,612.20	6,210	-3,540
NOV. 30.............	2,622.40	8,540	+2,330
DEC. 31.............	2,613.80	6,540	-2,000
CAL YR 1967.......	-	-	-240
JAN. 31, 1968.......	2,617.80	7,420	+880
FEB. 29.............	2,594.00	3,320	-4,100
MAR. 31.............	2,594.00	3,320	0
APR. 30.............	2,611.00	5,980	+2,660
MAY 31.............	2,630.80	10,800	+4,820
JUNE 30.............	2,652.60	20,700	+9,900
JULY 31.............	2,662.00	22,800	+2,100
AUG. 31.............	2,650.90	17,800	-5,000
SEPT.30.............	2,633.50	11,600	-6,200
WTR YR 1968.......	-	-	+1,850
OCT. 31, 1968.......	2,628.20	10,100	-1,500
NOV. 30.............	2,632.80	11,400	+1,300
DEC. 31.............	2,612.00	6,170	-5,230
CAL YR 1968.......	-	-	-370
JAN. 31, 1969.......	2,596.40	3,620	-2,550
FEB. 28.............	2,594.90	3,430	-190
MAR. 31.............	2,593.70	3,280	-150
APR. 30.............	2,596.10	3,580	+300
MAY 31.............	2,596.60	3,650	+70
JUNE 30.............	2,624.90	9,180	+5,530
JULY 31.............	2,643.50	14,900	+5,720
AUG. 31.............	2,653.30	18,800	+3,900
SEPT.30.............	2,661.00	22,300	+3,500
WTR YR 1969.......	-	-	+10,700
OCT. 31.............	2,637.10	12,750	-9,550
NOV. 30.............	2,649.90	17,378	+4,628
DEC. 31.............	2,602.10	4,427	-12,951
CAL YR 1969.......	-	-	-1,743
JAN. 31, 1970.......	2,599.00	3,973	-454
FEB. 28.............	2,596.00	3,569	-404
MAR. 31.............	2,594.70	3,404	-165
APR. 30.............	2,608.60	5,522	+2,118
MAY 31.............	2,639.10	13,406	+7,884
JUNE 30.............	2,639.20	13,440	+34
JULY 31.............	2,650.40	17,581	+4,141
AUG. 31.............	2,633.60	11,651	-5,930
SEPT.30.............	2,636.50	12,557	+906
WTR YR 1970.......	-	-	-9,743

11363930 IRON CANYON CREEK BELOW IRON CANYON DAM, NEAR BIG BEND, CALIF.

LOCATION.--Lat 41°02'27", long 121°59'02", in NW¼NW¼ sec.28, T.37 N., R.1 W., Shasta County, on left bank 0.2 mile downstream from Iron Canyon Dam and 4.2 miles west of Big Bend.

DRAINAGE AREA.--11.6 sq mi.

PERIOD OF RECORD.--August 1966 to September 1970.

GAGE.--Water-stage recorder, 60° sharp-crested V-notch weir, and concrete control. Datum of gage is 2,461.52 ft above mean sea level (levels by Pacific Gas & Electric Co.).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for August 1966 to September 1970 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	-	-	-	-	-
1967	Mar. 16, 1967	39	1.84	July 15-18, 1967	0
1968	Feb. 21, 1968	10	1.59	Sept.26, 1968	2.5
1969	Jan. 24, 1969	a361	3.03	Sept.16, 17, 1969	2.2
1970	Jan. 23, 1970	a26	1.75	June 17, 1970	2.8

a Maximum recorded.

Period of record: Maximum discharge, 361 cfs Jan. 24, 1969 (gage height, 3.03 ft), from rating curve extended above 40 cfs, as a result of sluicing at dam; no flow July 15-18, 1967.

REMARKS.--Flow is regulated by Iron Canyon Dam (see station 11363920). Interbasin diversion from McCloud Reservoir (see station 11367790) to Iron Canyon Reservoir (see station 11363920), and then into a tunnel to James B. Black powerplant on Pit River (see station 11363910). See schematic diagram of Pit and McCloud River basins elsewhere in this report.

COOPERATION.--Records collected by Pacific Gas & Electric Co., under general supervision of the Geological Survey, in connection with a Federal Power Commission project.

DISCHARGE, IN CUBIC FEET PER SECOND, AUGUST TO SEPTEMBER 1966

DAY	AUG	SEP	DAY	AUG	SEP	DAY	AUG	SEP	DAY	AUG	SEP	DAY	AUG	SEP	DAY	AUG	SEP
1		3.9	6		4.0	11		3.9	16		3.4	21		3.0	26	3.3	3.3
2		3.7	7		3.4	12		3.9	17		3.3	22	3.7	3.4	27	3.1	3.3
3		3.6	8		3.7	13		3.9	18		3.2	23	2.2	3.4	28	3.1	3.3
4		3.4	9		3.8	14		3.9	19		3.2	24	1.3	3.3	29	3.1	3.3
5		3.7	10		3.8	15		3.6	20		3.1	25	6.9	3.4	30	3.0	3.3
															31	3.5	

TOTAL.. 105.4
MEAN.. 3.51
MAX.. 4.0
MIN.. 3.0
AC-FT.. 209

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	3.0	4.9	4.1	4.7	5.9	4.1	4.7	3.3	4.2	4.7	6.4
2	3.5	2.6	14	4.3	3.7	5.3	4.0	4.4	2.9	4.0	4.8	6.8
3	3.1	2.5	2.7	4.7	3.4	5.5	4.0	3.9	2.7	4.0	4.5	6.8
4	2.9	2.4	4.0	4.7	3.2	5.4	3.5	3.8	2.8	3.9	4.1	7.3
5	3.0	2.4	1.6	4.7	3.1	5.3	3.8	3.8	2.8	3.9	3.0	7.3
6	3.5	2.6	1.0	4.2	3.0	5.2	3.8	3.5	2.9	3.9	3.4	7.3
7	3.7	2.6	1.2	2.8	2.9	5.2	3.9	3.2	2.7	4.0	3.6	6.9
8	3.5	2.7	1.4	2.5	2.7	5.1	3.9	3.2	2.8	3.8	3.4	6.9
9	3.3	2.6	2.5	2.5	2.6	5.2	3.9	4.0	2.4	3.7	3.2	5.6
10	3.2	2.5	4.0	2.4	2.4	7.2	3.9	4.5	2.0	3.8	3.0	6.0
11	3.2	2.5	4.0	2.3	2.3	7.6	3.9	4.1	1.5	3.9	3.4	6.0
12	3.2	2.8	4.0	2.4	2.2	7.3	3.7	3.7	1.3	4.0	3.4	6.0
13	3.6	2.9	4.1	2.4	2.4	7.3	4.0	3.4	1.2	3.5	3.8	5.6
14	3.6	3.3	3.9	2.5	2.4	7.3	4.0	3.3	1.2	2.0	3.9	4.9
15	3.6	6.7	3.7	2.5	2.6	7.4	3.4	2.6	1.5	0	3.8	4.1
16	3.7	10	3.5	2.5	2.2	15	3.1	2.9	4.0	0	3.7	3.2
17	3.8	4.0	3.4	2.5	2.0	11	3.2	3.0	5.3	0	3.6	3.6
18	3.7	3.9	3.2	2.5	2.1	9.9	3.3	2.7	5.7	0	3.7	3.7
19	3.7	8.5	3.0	2.5	2.2	8.9	3.4	2.8	8.4	.80	3.7	3.5
20	3.6	16	3.2	2.3	2.1	8.8	3.5	2.2	5.7	3.7	3.9	3.0
21	3.6	17	3.5	3.2	2.0	8.4	4.2	3.2	5.4	5.2	3.8	2.9
22	3.6	9.3	3.6	2.7	1.9	7.6	4.2	2.8	5.1	7.3	3.8	3.5
23	3.6	4.3	3.6	2.8	1.9	7.3	4.6	2.8	4.7	7.8	3.8	4.9
24	3.5	4.0	3.6	2.9	2.0	7.1	5.3	3.3	4.6	7.8	3.7	5.9
25	3.4	4.0	3.6	2.9	2.2	6.7	5.2	2.8	5.3	7.5	3.6	6.0
26	3.3	4.0	3.6	3.0	1.9	6.1	4.8	3.3	4.0	7.0	3.6	5.4
27	3.2	3.9	3.7	3.3	1.8	5.7	4.8	3.5	4.0	3.7	3.6	5.3
28	3.6	9.1	3.6	4.1	3.2	5.4	5.0	3.7	3.9	4.6	3.7	3.6
29	4.7	9.1	4.1	7.7	------	4.8	4.9	3.3	3.1	2.6	3.7	4.7
30	4.9	3.7	4.1	6.4	------	4.5	5.0	3.0	5.1	2.9	4.0	5.7
31	4.5	------	4.1	6.1	------	4.1	------	3.2	------	3.5	6.0	------
TOTAL	110.8	154.9	114.4	106.4	71.1	213.5	122.3	104.6	108.3	117.00	117.9	158.8
MEAN	3.57	5.16	3.69	3.43	2.54	6.89	4.08	3.37	3.61	3.77	3.80	5.29
MAX	4.9	17	14	7.7	4.7	15	5.3	4.7	8.4	7.8	6.0	7.3
MIN	2.9	2.4	1.0	2.3	1.8	4.1	3.1	2.2	1.2	0	3.0	2.9
AC-FT	220	307	227	211	141	423	243	207	215	232	234	315

WTR YR 1967 TOTAL 1,500.00 MEAN 4.11 MAX 17 MIN 0 AC-FT 2,980

11363930 IRON CANYON CREEK BELOW IRON CANYON DAM, NEAR BIG BEND, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	5.2	3.4	3.3	4.0	3.9	4.1	4.7	3.3	4.5	3.6	3.4
2	7.2	5.2	3.3	3.1	4.0	3.2	3.9	4.8	3.4	3.0	3.6	3.5
3	7.2	5.2	3.4	4.9	4.0	3.3	4.2	4.5	3.5	3.0	3.5	3.5
4	7.2	3.4	4.6	4.6	4.3	2.8	4.1	5.2	3.5	2.9	3.6	3.5
5	7.2	3.5	3.7	4.0	4.3	3.2	3.8	6.4	3.5	3.2	3.5	3.4
6	6.5	3.5	3.5	3.8	4.3	3.1	3.9	6.6	3.5	4.0	3.5	3.3
7	6.5	3.2	3.3	3.8	4.3	3.5	3.8	5.8	3.7	4.1	3.5	3.2
8	6.5	3.2	3.3	3.9	4.3	3.2	4.5	5.5	3.7	4.1	3.6	3.2
9	5.2	3.2	3.3	3.8	4.6	2.9	5.3	5.4	3.5	3.9	3.6	3.3
10	3.0	3.2	3.3	3.8	5.0	2.8	4.8	5.7	3.6	3.9	3.5	3.5
11	2.7	3.0	3.3	3.7	5.4	3.1	5.0	6.1	3.6	3.8	3.5	3.7
12	2.8	2.7	3.3	3.7	4.6	3.3	6.1	6.5	3.6	3.8	3.5	4.0
13	3.1	3.4	3.1	3.9	3.8	3.8	5.5	7.9	3.6	3.8	4.3	4.1
14	3.9	4.3	3.1	4.6	3.7	4.6	5.1	7.8	3.3	3.9	3.7	5.2
15	4.0	3.9	3.2	4.6	3.7	4.0	4.8	5.6	3.3	3.9	3.6	6.2
16	4.0	5.2	3.3	4.6	3.9	5.2	3.6	4.0	3.4	3.9	3.6	4.9
17	3.7	4.6	3.4	4.0	5.6	4.0	3.8	3.3	3.5	3.9	3.6	3.4
18	3.4	3.3	3.5	4.0	4.8	3.6	4.7	3.0	3.5	3.4	3.6	3.3
19	3.4	3.4	3.5	4.0	5.3	3.4	5.4	3.2	4.2	3.7	3.7	3.2
20	3.3	3.2	3.4	3.9	5.9	3.6	5.3	4.1	5.7	3.4	3.7	3.1
21	3.4	3.1	3.4	4.0	7.8	4.5	6.3	3.6	3.8	3.5	3.7	3.1
22	3.4	3.2	3.2	3.8	7.0	4.2	5.9	3.6	3.2	3.5	3.6	3.2
23	3.4	3.3	3.1	3.9	7.0	4.6	5.9	3.7	3.2	3.5	3.5	3.3
24	3.3	3.3	3.2	3.9	5.7	4.0	5.3	3.7	3.2	3.5	3.5	3.2
25	3.2	3.3	3.3	3.9	4.6	4.7	5.0	3.7	3.0	3.5	3.5	2.8
26	3.4	3.3	3.4	4.0	3.8	4.6	4.7	3.6	2.9	3.5	3.5	2.5
27	3.4	3.3	3.4	4.0	3.6	4.2	5.3	3.6	2.8	3.5	3.4	2.8
28	3.4	3.3	3.4	4.0	3.4	3.7	4.7	3.5	3.7	3.5	3.4	3.2
29	3.6	3.5	3.4	4.0	3.7	3.5	4.6	3.5	6.1	3.6	3.3	3.3
30	3.1	3.5	3.3	4.0	------	3.7	5.0	3.6	6.3	3.5	3.3	3.4
31	3.2	------	3.3	4.0	------	3.5	------	3.4	------	3.5	3.3	------
TOTAL	134.1	108.9	104.6	123.5	136.4	115.7	144.4	145.6	111.1	112.7	110.3	105.7
MEAN	4.33	3.63	3.37	3.98	4.70	3.73	4.81	4.70	3.70	3.64	3.56	3.52
MAX	7.2	5.2	4.6	4.9	7.8	5.2	6.3	7.9	6.3	4.5	4.3	6.2
MIN	2.7	2.7	3.1	3.1	3.4	2.8	3.6	3.0	2.8	2.9	3.3	2.5
AC-FT	266	216	207	245	271	229	286	289	220	224	219	210

CAL YR 1967 TOTAL 1,467.50 MEAN 4.02 MAX 15 MIN 0 AC-FT 2,910
WTR YR 1968 TOTAL 1,453.00 MEAN 3.97 MAX 7.9 MIN 2.5 AC-FT 2,880

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	5.2	3.2	3.2	3.5	2.9	4.1	4.7	4.7	4.3	4.3	4.3
2	3.0	5.7	3.2	3.2	3.3	2.8	4.1	4.1	4.7	4.7	4.3	4.7
3	2.9	5.7	3.1	3.2	3.2	2.9	4.1	4.3	4.3	4.7	4.7	4.3
4	4.0	5.2	2.6	3.3	3.2	3.0	4.1	4.1	4.3	5.0	4.1	4.7
5	6.4	4.1	3.0	3.5	3.3	3.1	5.2	3.7	4.7	5.0	3.5	5.0
6	7.0	3.8	3.0	3.7	3.2	3.1	4.1	3.2	5.0	5.4	3.4	4.7
7	5.2	3.5	3.0	3.7	3.2	3.0	4.1	3.3	4.7	5.4	4.3	4.7
8	2.9	3.4	3.1	3.7	3.5	2.9	3.9	3.3	5.9	5.9	4.2	4.3
9	2.7	3.3	3.2	3.7	4.1	2.7	4.1	4.7	6.3	5.9	4.1	3.6
10	2.7	3.2	6.4	3.7	4.1	3.0	3.5	6.3	5.9	5.9	4.2	3.3
11	3.5	3.8	3.6	3.7	6.4	3.4	4.3	6.3	5.4	5.9	4.3	3.2
12	5.2	3.3	3.3	4.6	5.2	3.4	6.8	6.3	5.0	5.9	4.3	3.9
13	4.6	3.2	3.2	7.7	4.1	3.3	6.3	6.8	4.7	5.9	4.2	5.9
14	4.1	3.2	3.3	5.7	3.8	3.3	6.3	7.9	5.0	4.7	4.1	5.4
15	4.6	3.2	5.2	4.6	3.9	3.2	5.9	6.8	5.4	3.6	4.0	4.1
16	5.2	3.2	3.6	4.6	4.0	3.3	5.4	6.3	5.4	3.3	4.0	2.2
17	4.6	3.2	3.3	4.1	3.7	4.0	5.9	6.3	5.0	3.2	4.1	2.2
18	4.1	3.3	3.2	4.1	3.6	4.1	5.9	7.3	5.4	3.1	4.2	3.4
19	3.6	3.2	3.2	4.1	3.3	3.8	5.4	5.4	4.7	4.1	4.1	4.0
20	3.5	3.2	3.4	8.4	3.3	3.8	5.0	4.7	5.0	4.2	4.0	4.3
21	3.5	3.2	3.4	11	3.3	3.7	5.0	4.3	5.0	4.2	4.0	4.7
22	3.5	3.1	3.5	7.7	3.0	3.7	5.4	4.3	5.0	4.1	4.1	3.8
23	3.4	3.1	3.5	5.7	3.0	3.8	6.8	4.3	4.7	4.1	4.1	3.1
24	3.1	3.2	3.5	19	2.9	3.8	6.8	4.7	3.9	4.2	4.2	3.3
25	3.4	3.2	3.6	4.6	2.9	3.6	4.7	5.0	4.1	4.3	4.3	3.4
26	4.1	3.2	3.5	5.7	2.8	3.3	4.7	5.4	4.2	4.3	4.3	3.5
27	4.6	3.1	3.4	4.6	2.7	3.5	4.3	4.7	4.1	4.7	4.3	3.5
28	4.6	3.0	3.3	4.1	2.9	3.7	4.3	4.3	4.3	4.7	4.3	3.7
29	5.2	3.1	3.2	3.8	------	3.9	4.3	4.3	4.7	4.7	4.3	3.7
30	5.2	3.1	3.2	3.6	------	3.9	4.7	4.3	4.3	4.3	4.2	3.8
31	5.2	------	3.1	3.5	------	4.0	------	4.7	------	4.3	4.3	------
TOTAL	128.9	107.2	106.3	159.8	99.4	105.9	149.5	156.1	145.8	144.0	128.8	118.7
MEAN	4.16	3.57	3.43	5.15	3.55	3.42	4.98	5.04	4.86	4.65	4.15	3.96
MAX	7.0	5.7	6.4	19	6.4	4.1	6.8	7.9	6.3	5.9	4.7	5.9
MIN	2.7	3.0	2.6	3.2	2.7	2.7	3.5	3.2	3.9	3.1	3.4	2.2
AC-FT	256	213	211	317	197	210	297	310	289	286	255	235

CAL YR 1968 TOTAL 1,447.8 MEAN 3.96 MAX 7.9 MIN 2.5 AC-FT 2,870
WTR YR 1969 TOTAL 1,550.4 MEAN 4.25 MAX 19 MIN 2.2 AC-FT 3,080

11363930 IRON CANYON CREEK BELOW IRON CANYON DAM, NEAR BIG BEND, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	3.2	3.1	3.5	3.1	3.1	3.2	3.3	3.3	3.2	3.2	3.2
2	3.7	3.1	3.1	3.4	3.0	3.2	3.2	3.2	3.2	3.2	3.2	3.2
3	3.7	3.1	3.1	3.2	3.2	3.1	3.2	3.2	3.2	3.2	3.2	3.2
4	3.6	3.2	3.1	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
5	3.5	3.1	3.1	3.2	2.9	3.1	3.2	3.3	3.2	3.2	3.2	3.2
6	3.4	3.1	3.2	3.1	3.1	3.1	3.3	3.3	3.3	3.2	3.2	3.2
7	3.4	3.2	3.2	3.1	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2
8	3.5	3.1	3.1	3.1	3.1	3.1	3.2	3.3	3.3	3.2	3.2	3.2
9	3.6	3.1	3.1	3.2	3.1	3.1	3.2	3.2	3.2	3.2	3.2	3.2
10	3.6	3.1	3.2	3.1	3.1	3.1	3.2	3.2	3.3	3.2	3.2	3.2
11	3.6	3.1	3.3	3.1	3.1	3.1	3.2	3.2	3.2	3.2	3.2	3.2
12	3.6	3.1	3.5	3.1	3.2	3.1	3.3	3.2	3.2	3.2	3.2	3.2
13	3.6	3.2	3.1	5.0	3.1	3.1	3.2	3.3	3.2	3.2	3.2	3.2
14	3.7	3.1	3.1	4.7	3.2	3.2	3.1	3.2	3.2	3.2	3.2	3.2
15	3.7	3.1	3.1	3.9	3.2	3.1	3.2	3.2	3.2	3.2	3.2	3.2
16	3.9	3.1	3.1	5.9	3.3	3.1	3.3	3.2	3.2	3.2	3.2	3.2
17	3.7	3.1	3.1	6.4	3.1	2.9	3.1	3.2	2.8	3.2	3.0	3.2
18	3.7	2.9	3.1	4.4	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2
19	3.6	3.1	3.3	3.9	3.1	3.1	3.2	3.2	3.2	3.2	3.2	3.2
20	3.6	3.1	3.3	3.7	3.1	3.1	3.2	3.2	3.2	3.2	3.2	3.2
21	3.5	3.2	4.4	4.7	3.1	3.1	3.3	3.3	3.2	3.2	3.2	3.2
22	3.3	3.1	3.1	7.7	3.1	3.1	3.3	3.2	3.2	3.2	3.2	3.0
23	3.1	3.1	3.2	16	3.1	3.2	3.3	3.2	3.2	3.2	3.2	3.2
24	3.1	3.1	3.1	16	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2
25	3.2	3.1	3.2	8.9	3.1	3.2	3.2	3.3	3.2	3.2	3.2	3.2
26	3.2	3.1	3.1	7.0	3.1	3.2	3.3	3.2	3.2	3.2	3.2	3.2
27	3.1	3.1	3.1	7.4	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2
28	3.1	3.1	3.1	5.1	3.3	3.2	3.3	3.2	3.2	3.2	3.2	3.2
29	3.2	3.2	3.1	4.2	------	3.2	3.2	3.3	3.2	3.2	3.2	3.2
30	3.1	3.2	3.2	3.5	------	3.2	3.2	3.2	3.2	3.2	3.2	3.2
31	3.1	------	3.4	3.1	------	3.2	------	3.3	------	3.2	2.9	------
TOTAL	107.5	93.5	99.3	159.7	87.4	97.3	96.6	100.1	96.0	99.2	98.7	95.8
MEAN	3.47	3.12	3.20	5.15	3.12	3.14	3.22	3.23	3.20	3.20	3.18	3.19
MAX	3.9	3.2	4.4	16	3.3	3.2	3.3	3.3	3.3	3.2	3.2	3.2
MIN	3.1	2.9	3.1	3.1	2.9	2.9	3.1	3.2	2.8	3.2	2.9	3.0
AC-FT	213	185	197	317	173	193	192	199	190	197	196	190

CAL YR 1969 TOTAL 1,508.3 MEAN 4.13 MAX 19 MIN 2.2 AC-FT 2,990
WTR YR 1970 TOTAL 1,231.1 MEAN 3.37 MAX 16 MIN 2.8 AC-FT 2,440

11365000 PIT RIVER NEAR MONTGOMERY CREEK, CALIF.

LOCATION.--Lat 40°50'36", long 122°00'58", in SE¼ sec.31, T.35 N., R.1 W., Shasta County, Shasta National Forest, on right bank 0.5 mile upstream from Potem Creek, 1.9 miles downstream from Pit No. 7 dam and powerhouse, and 5.0 miles west of town of Montgomery Creek.

DRAINAGE AREA.--4,951 sq mi (revised), excluding Goose Lake basin.

PERIOD OF RECORD.--October 1944 to September 1970 (monthly discharge only December 1964 to May 1965). Monthly discharge only for some periods, published in WSP 1315-A.

GAGE.--Water-stage recorder. Datum of gage is 1,036 ft above mean sea level (levels by Pacific Gas & Electric Co.). October 1944 to Feb. 17, 1963, at site 1.9 miles upstream at different datum. Feb. 18, 1963, to May 21, 1965, at site 2.7 miles upstream at different datum.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Mar. 16, 1966	a10,200	-	Many days	200
1967	Feb. 2, 1967	a16,600	-	July 22, 1967	42
1968	Feb. 23, 1968	a22,800	-	June 23, 1968	403
1969	Jan. 21, 1969	39,100	29.33	Aug. 2, 1969	482
1970	Jan. 24, 1970	73,000	32.36	July 26, 1970	209

a Maximum daily.

Period of record: Maximum discharge, 73,000 cfs Jan. 24, 1970 (gage height, 32.36 ft); minimum daily, 42 cfs July 22, 1967.

REMARKS.--Flow regulated by many reservoirs and powerplants (total usable reservoir capacity, 337,000 acre-ft). Many diversions above station for irrigation. Diversion from McCloud River to Pit River began December 1965 (see station 11367720). See schematic diagram of Pit and McCloud River basins elsewhere in this report. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

COOPERATION.--Records collected by Pacific Gas & Electric Co., under general supervision of the Geological Survey, in connection with a Federal Power Commission project.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,530	907	1,410	3,740	5,240	4,940	8,170	1,440	1,860	867	2,010	3,130
2	2,610	1,510	1,160	2,840	3,730	5,140	7,340	6,420	1,630	620	1,030	3,650
3	2,400	1,970	2,900	3,950	3,440	3,630	7,270	4,260	4,870	1,540	1,960	3,510
4	2,800	2,970	5,500	7,210	2,570	4,590	7,140	4,590	2,930	534	3,740	1,920
5	1,290	2,670	1,920	7,150	3,480	3,530	6,640	5,500	5,340	3,100	2,710	200
6	4,000	2,770	2,030	7,310	7,160	2,620	6,440	4,170	3,400	3,250	5,060	2,670
7	2,740	3,230	3,600	7,460	4,740	6,960	6,780	4,630	3,630	2,900	235	2,420
8	2,550	2,870	3,190	6,660	4,660	6,960	5,530	3,890	4,090	4,380	1,360	1,150
9	2,340	2,270	2,990	6,330	4,390	7,210	5,190	5,790	4,790	3,070	2,690	3,560
10	1,410	3,020	5,550	5,370	5,140	7,760	7,830	3,510	4,580	2,220	3,110	2,890
11	2,870	2,980	4,110	5,190	4,280	7,920	8,990	5,450	3,490	4,130	3,680	200
12	2,330	2,520	2,620	4,790	1,310	7,920	8,700	3,370	200	4,120	4,700	1,480
13	2,210	4,840	1,210	4,540	2,620	8,720	8,080	5,060	4,900	3,120	870	2,600
14	2,540	3,880	504	2,900	6,300	9,940	7,960	2,960	4,030	4,800	250	2,700
15	2,280	2,980	1,660	3,580	4,030	10,000	7,900	4,170	2,460	4,560	3,580	4,160
16	2,630	3,730	2,380	1,510	4,440	10,200	7,900	4,990	1,560	2,630	2,580	4,290
17	2,660	3,930	3,840	4,840	4,240	9,780	7,800	4,490	3,720	393	2,850	3,750
18	2,230	3,980	3,710	4,640	6,400	8,270	7,850	6,620	200	3,040	4,130	200
19	2,280	3,780	1,410	4,700	3,710	8,020	7,830	3,800	1,200	3,950	4,000	2,220
20	2,750	3,480	4,220	4,670	1,260	8,070	7,650	3,300	3,040	2,730	715	2,250
21	2,820	3,020	2,930	4,370	5,140	8,070	6,050	1,560	3,540	4,720	1,700	3,360
22	3,990	1,820	3,740	3,760	3,880	8,070	7,420	4,500	3,920	3,010	3,630	3,240
23	3,370	454	3,430	3,580	3,780	7,610	5,740	4,930	3,760	200	4,140	3,710
24	958	2,920	3,680	3,810	5,650	7,010	5,430	3,680	4,030	200	2,930	1,970
25	2,870	2,020	4,540	4,540	5,040	5,850	6,070	3,030	3,780	3,660	3,320	1,020
26	3,100	2,470	3,600	3,860	6,910	6,550	6,690	2,190	200	4,200	3,090	3,810
27	3,360	3,430	4,840	2,270	4,940	5,290	6,300	4,650	2,750	4,580	3,580	3,940
28	3,160	1,860	4,180	5,090	5,090	7,060	5,660	5,360	4,740	2,470	1,290	2,100
29	2,600	4,440	4,560	4,920	------	6,660	5,500	3,430	4,280	3,620	3,810	2,740
30	3,280	4,540	4,660	3,630	------	7,460	5,550	2,020	4,830	3,100	3,150	4,240
31	2,370	------	5,290	4,670	------	7,360	------	3,690	------	1,640	3,170	------
TOTAL	81,328	87,261	101,364	143,880	123,570	219,170	209,400	127,450	97,750	87,354	85,070	79,080
MEAN	2,623	2,909	3,270	4,641	4,413	7,070	6,980	4,111	3,258	2,818	2,744	2,623
MAX	4,000	4,840	5,550	7,460	7,160	10,200	8,990	6,620	5,340	4,800	5,060	4,290
MIN	958	454	504	1,510	1,260	2,620	5,190	1,440	200	200	235	200
AC-FT	161,300	173,100	201,100	285,400	245,100	434,700	415,300	252,800	193,900	173,300	168,700	156,900

CAL YR 1965 TOTAL 1,599,763 MEAN 4,383 MAX MIN 150 AC-FT 3,173,000
WTR YR 1966 TOTAL 1,442,677 MEAN 3,953 MAX 10,200 MIN 200 AC-FT 2,862,000

NOTE.--NO GAGE-HEIGHT RECORD OCT. 1 TO SEPT. 30. RECORDS REPRESENT FLOW THROUGH PIT NO. 7 POWERPLANT AND SPILL FROM PIT NO. 7 RESERVOIR.

11365000 PIT RIVER NEAR MONTGOMERY CREEK, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,000	3,310	4,590	3,350	14,100	5,470	6,010	7,580	7,090	3,360	3,070	2,760
2	202	3,710	7,840	1,680	16,600	6,830	7,190	7,930	6,830	651	3,750	2,350
3	2,410	4,840	7,640	2,770	13,500	6,400	6,890	7,930	6,570	4,940	4,950	2,010
4	4,020	3,910	7,670	4,930	13,100	5,470	7,400	7,220	7,560	3,350	4,250	1,830
5	3,760	3,260	7,850	4,770	11,100	6,040	6,910	6,990	7,150	5,530	154	2,740
6	4,000	776	8,000	5,010	10,600	3,720	7,090	7,870	7,060	5,970	498	3,180
7	2,930	3,360	8,010	4,180	9,640	5,980	7,030	6,460	6,450	4,830	4,670	4,160
8	2,360	4,610	5,900	3,060	8,240	4,910	6,560	12,900	6,950	3,930	3,620	2,910
9	1,960	3,660	3,290	4,940	8,150	5,410	6,990	9,660	7,220	3,640	4,880	5,360
10	3,270	3,590	4,680	4,510	8,120	6,990	7,360	9,890	6,600	4,770	3,630	3,280
11	4,250	4,320	7,000	4,860	7,960	6,320	7,760	9,890	6,500	3,100	4,440	2,740
12	3,050	2,060	5,860	3,510	7,290	5,140	7,930	10,100	6,990	4,040	2,920	4,340
13	3,810	1,860	8,010	3,170	6,470	6,730	7,000	9,680	6,700	5,510	2,900	2,750
14	4,070	2,570	7,870	3,780	7,990	2,860	7,880	9,090	6,650	5,240	3,280	3,830
15	3,120	4,190	7,260	2,350	7,910	4,850	7,440	9,890	6,250	4,150	2,550	4,690
16	202	3,770	7,350	3,800	7,170	13,200	6,410	9,880	6,590	1,650	3,310	1,660
17	3,250	4,880	5,570	3,480	6,070	11,100	7,920	9,870	5,710	4,010	3,250	1,570
18	3,540	4,430	5,780	3,620	4,280	13,600	8,700	10,200	5,510	2,680	3,660	3,760
19	3,830	4,280	7,110	6,190	7,000	13,100	8,750	10,400	6,480	4,360	3,610	2,960
20	3,670	7,500	7,210	5,780	6,580	12,100	8,350	10,400	5,890	3,880	2,280	4,360
21	2,730	5,040	4,190	6,460	6,490	8,690	7,970	9,630	5,410	3,270	4,170	3,780
22	2,870	4,130	4,740	6,360	5,160	8,880	7,840	9,880	5,630	42	3,070	3,560
23	1,200	4,130	4,630	3,310	5,180	9,980	6,370	9,890	6,090	1,440	3,560	2,770
24	2,810	6,350	5,740	2,890	5,650	10,500	6,550	9,640	5,660	4,500	3,220	1,750
25	3,350	5,950	4,700	3,370	6,110	9,480	9,050	9,140	2,930	4,640	3,680	2,620
26	3,160	5,390	4,740	3,530	6,520	8,990	9,150	8,930	5,500	4,300	3,970	2,930
27	4,200	4,580	4,470	6,200	5,450	8,590	9,470	8,620	4,650	4,520	2,300	3,400
28	2,790	4,170	4,390	7,000	4,900	8,010	8,980	8,430	4,690	6,050	3,310	3,390
29	2,210	3,820	4,320	12,900	------	8,000	8,730	8,220	4,920	3,490	3,160	3,510
30	550	3,820	4,860	14,400	------	7,290	7,640	7,920	4,020	547	3,380	2,780
31	4,260	------	4,890	15,900	------	6,150	------	7,910	------	3,060	3,920	------
TOTAL	89,834	122,266	186,160	162,060	227,330	240,780	229,320	282,040	182,250	115,450	103,412	93,730
MEAN	2,898	4,076	6,005	5,228	8,119	7,767	7,644	9,098	6,075	3,724	3,336	3,124
MAX	4,260	7,500	8,010	15,900	16,600	13,600	9,470	12,900	7,560	6,050	4,950	5,360
MIN	202	776	3,290	1,680	4,280	2,860	6,010	6,460	2,930	42	154	1,570
AC-FT	178,200	242,500	369,200	321,400	450,900	477,600	454,900	559,400	361,500	229,000	205,100	185,900

CAL YR 1966 TOTAL 1,570,984 MEAN 4,304 MAX 10,200 MIN 200 AC-FT 3,116,000
WTR YR 1967 TOTAL 2,034,632 MEAN 5,574 MAX 16,600 MIN 42 AC-FT 4,036,000

NOTE.--NO GAGE-HEIGHT RECORD OCT. 1 TO SEPT. 30. RECORDS REPRESENT FLOW THROUGH PIT NO. 7 POWERPLANT AND SPILL FROM PIT NO. 7 RESERVOIR.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,270	3,570	4,200	2,300	3,660	9,390	6,090	3,650	4,820	4,950	3,920	1,610
2	1,670	4,250	3,570	3,370	3,140	8,840	7,340	3,600	4,240	3,690	3,550	3,070
3	4,520	3,250	3,480	3,490	2,680	8,270	5,100	3,100	4,360	4,460	1,200	2,620
4	3,320	2,650	5,630	3,870	4,890	6,890	7,390	3,380	3,270	2,780	3,570	3,670
5	3,800	1,980	5,280	4,240	5,520	8,090	7,010	3,740	4,200	4,380	2,870	3,960
6	3,500	3,350	3,840	3,010	4,150	6,670	4,580	3,850	3,950	2,190	3,200	4,720
7	3,840	3,370	3,740	1,670	4,060	6,730	7,200	5,360	4,600	1,340	3,070	4,000
8	1,460	2,120	4,480	3,270	3,530	6,990	5,870	2,760	3,660	2,370	4,030	1,820
9	3,170	4,970	3,180	4,340	5,300	7,370	5,330	3,040	4,260	5,150	3,010	3,380
10	5,050	1,890	3,830	3,760	6,710	6,700	5,950	4,190	4,290	3,870	2,360	4,120
11	4,810	5,160	4,200	3,720	6,100	5,950	5,890	3,330	4,170	2,640	2,570	5,070
12	2,830	1,680	3,650	4,980	5,200	7,310	6,570	3,040	3,630	3,400	3,850	4,660
13	3,470	3,000	3,600	4,110	3,160	5,970	6,310	4,480	4,500	2,400	2,430	4,230
14	3,600	4,230	4,130	3,340	6,320	7,050	5,900	4,460	3,390	1,570	4,350	791
15	4,930	3,890	3,250	6,250	5,470	7,630	5,020	5,540	4,310	3,220	4,530	2,600
16	3,380	3,010	2,610	5,740	5,800	8,280	5,610	4,550	2,220	4,330	3,570	2,780
17	3,850	3,380	2,410	5,310	6,700	8,600	6,430	5,190	3,840	4,190	2,490	4,610
18	4,150	2,650	3,530	4,800	7,870	8,480	5,090	5,140	3,280	3,040	1,060	3,370
19	4,090	3,690	3,620	4,570	7,770	7,960	5,310	3,810	4,420	2,060	4,100	5,060
20	3,850	3,330	3,540	3,470	8,770	6,470	2,440	3,720	5,360	2,070	4,710	4,010
21	3,290	3,580	4,410	2,800	16,600	7,120	3,040	4,170	4,700	1,680	4,170	4,750
22	3,850	3,450	5,080	4,060	19,300	7,050	4,860	5,070	525	3,400	3,180	2,120
23	4,510	4,020	3,460	5,060	22,800	6,130	5,690	4,430	403	4,260	3,850	3,750
24	2,610	3,590	3,100	3,620	21,200	6,350	4,120	5,610	1,320	3,870	3,330	3,380
25	4,130	2,760	3,240	5,430	19,500	6,560	5,800	5,080	3,360	3,040	2,110	3,910
26	3,710	3,950	3,760	4,920	17,000	6,900	4,680	4,270	2,190	2,580	3,540	3,290
27	4,130	3,450	4,490	3,560	13,800	6,600	2,580	4,920	3,550	2,230	5,300	3,220
28	2,660	4,210	3,750	3,000	12,700	7,460	5,570	4,510	3,550	1,650	4,950	2,810
29	4,480	2,870	4,630	4,980	8,540	7,220	4,400	4,460	500	3,450	2,620	2,480
30	3,740	3,340	5,070	4,150	------	5,860	4,080	5,990	883	3,850	4,170	3,190
31	2,940	------	2,770	5,630	------	7,410	------	4,230	------	2,710	1,980	------
TOTAL	111,610	100,640	119,530	126,820	258,240	224,300	161,250	132,670	101,751	96,820	103,640	103,051
MEAN	3,600	3,355	3,856	4,091	8,905	7,235	5,375	4,280	3,392	3,123	3,343	3,435
MAX	5,050	5,160	5,630	6,250	22,800	9,390	7,390	5,990	5,360	5,150	5,300	5,070
MIN	1,460	1,680	2,410	1,670	2,680	5,860	2,440	2,760	403	1,340	1,060	791
AC-FT	221,400	199,600	237,100	251,500	512,200	444,900	319,800	263,200	201,800	192,000	205,600	204,400

CAL YR 1967 TOTAL 1,968,152 MEAN 5,392 MAX 16,600 MIN 42 AC-FT 3,904,000
WTR YR 1968 TOTAL 1,640,322 MEAN 4,482 MAX 22,800 MIN 403 AC-FT 3,254,000

NOTE.--NO GAGE-HEIGHT RECORD OCT. 1 TO SEPT. 30. RECORDS REPRESENT FLOW THROUGH PIT NO. 7 POWERPLANT AND SPILL FROM PIT NO. 7 RESERVOIR.

11365000 PIT RIVER NEAR MONTGOMERY CREEK, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,720	3,600	2,520	3,090	8,420	7,000	13,300	9,880	5,570	4,090	4,050	1,050
2	3,800	4,380	3,540	4,630	8,340	7,900	13,000	9,310	6,830	5,510	482	4,080
3	2,960	4,320	3,270	3,350	8,320	5,840	12,700	8,920	5,580	6,180	1,500	4,600
4	4,130	2,490	3,650	2,580	8,000	7,680	12,800	8,440	6,340	1,680	3,370	4,850
5	2,620	4,010	3,970	3,940	6,760	7,120	13,700	8,790	4,070	3,740	3,840	5,380
6	3,430	3,690	3,090	2,610	7,360	5,120	12,000	8,830	5,990	2,150	4,850	505
7	4,400	3,830	3,350	5,220	7,370	6,360	11,800	8,800	3,830	3,640	4,970	1,520
8	3,350	3,590	2,260	4,430	7,190	7,370	11,100	8,800	4,220	3,430	4,090	4,680
9	2,650	1,640	3,480	4,510	9,360	7,160	10,400	8,790	5,760	5,310	530	4,130
10	3,030	2,680	6,960	4,490	10,200	6,340	10,000	8,790	4,750	4,640	2,080	4,070
11	2,840	3,810	8,230	4,480	14,400	5,490	9,950	8,790	6,640	5,920	4,370	4,980
12	4,450	3,570	4,220	5,890	15,000	7,140	9,780	8,700	5,910	3,530	4,020	5,910
13	4,150	4,230	6,690	11,800	13,300	5,880	9,590	8,590	4,850	1,970	5,300	6,280
14	4,100	4,460	5,790	8,900	12,800	5,230	9,670	8,560	5,100	4,360	4,720	1,110
15	3,650	4,780	6,490	8,220	12,700	6,190	9,550	8,410	3,470	3,560	5,320	4,570
16	3,330	2,930	6,460	5,050	12,700	7,050	9,610	8,400	5,510	4,040	2,240	5,090
17	4,000	3,920	4,100	7,180	11,200	6,250	9,560	8,410	5,380	5,510	941	4,350
18	3,330	3,400	3,670	7,120	10,600	6,950	10,000	8,280	7,000	5,200	3,310	3,380
19	3,720	3,440	5,100	8,090	10,100	6,990	9,850	8,280	4,800	3,420	4,760	2,720
20	2,860	3,580	4,620	13,000	9,540	8,420	10,000	8,280	4,070	2,790	5,780	2,400
21	3,810	5,140	4,540	29,400	8,590	8,460	10,000	8,250	5,100	4,080	3,810	1,940
22	3,610	3,670	4,090	21,900	8,530	8,120	10,300	8,160	3,930	5,440	3,760	1,880
23	2,780	3,630	3,910	16,000	8,360	8,030	10,600	6,760	4,860	3,800	1,110	2,750
24	3,090	1,800	5,250	15,100	8,110	8,730	11,000	7,020	4,930	2,520	522	2,330
25	3,020	3,250	4,710	14,400	8,110	8,900	10,600	5,650	5,400	3,430	2,850	4,320
26	3,220	3,740	3,720	16,400	8,000	9,860	10,100	7,360	5,800	1,560	4,960	2,460
27	2,650	4,500	4,440	14,000	7,920	9,730	9,890	7,120	5,580	1,360	4,470	1,210
28	3,710	4,060	3,930	12,400	6,840	10,500	10,200	6,580	2,130	3,550	5,180	3,560
29	3,560	3,890	3,380	11,000	------	11,700	10,200	6,580	2,540	5,180	4,290	3,150
30	4,410	3,310	4,990	9,680	------	11,800	10,000	6,140	4,870	5,050	1,490	3,400
31	1,880	------	4,720	9,100	------	12,600	------	6,600	------	5,320	1,070	------
TOTAL	106,260	109,340	139,140	287,960	268,120	241,910	321,250	250,270	150,810	121,960	104,035	102,655
MEAN	3,428	3,645	4,488	9,289	9,576	7,804	10,710	8,073	5,027	3,934	3,356	3,422
MAX	4,450	5,140	8,230	29,400	15,000	12,600	13,700	9,880	7,000	6,180	5,780	6,280
MIN	1,880	1,640	2,260	2,580	6,760	5,120	9,550	5,650	2,130	1,360	482	505
AC-FT	210,800	216,900	276,000	571,200	531,800	479,800	637,200	496,400	299,100	241,900	206,400	203,600

CAL YR 1968 TOTAL 1,663,282 MEAN 4,544 MAX 22,800 MIN 403 AC-FT 3,299,000
WTR YR 1969 TOTAL 2,203,710 MEAN 6,038 MAX 29,400 MIN 482 AC-FT 4,371,000

NOTE.--NO GAGE-HEIGHT RECORD OCT. 1 TO SEPT. 30. RECORDS REPRESENT FLOW THROUGH PIT NO. 7 POWERPLANT AND SPILL FROM PIT NO. 7 RESERVOIR.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,800	4,500	2,990	4,670	13,700	8,560	5,920	4,270	4,440	5,580	784	5,620
2	3,980	2,320	2,070	5,760	12,200	8,390	6,540	3,140	3,690	4,470	1,630	4,410
3	4,770	3,060	2,660	5,780	11,700	8,360	5,420	3,570	3,330	5,330	3,740	4,440
4	5,030	2,640	4,130	5,360	11,100	8,800	5,780	5,250	4,200	4,010	5,560	4,710
5	2,280	3,800	4,240	4,910	10,800	8,460	5,720	4,630	4,460	1,250	4,390	1,540
6	2,850	4,240	5,450	6,380	10,100	8,390	5,590	6,090	2,920	4,980	4,800	230
7	3,120	3,860	1,670	3,860	9,480	8,360	6,040	5,010	2,670	4,070	4,450	2,200
8	5,430	4,070	2,320	3,850	9,420	9,040	5,660	5,670	4,400	4,260	941	3,750
9	1,960	3,360	4,920	6,940	9,420	9,930	6,610	4,680	4,130	2,880	302	2,920
10	3,070	3,940	5,320	8,330	8,620	10,400	4,970	5,450	4,110	3,950	3,530	3,440
11	3,830	4,020	5,450	7,170	8,230	10,100	5,780	5,680	5,400	2,750	4,980	4,560
12	3,650	4,980	8,530	7,930	8,460	9,970	5,520	4,070	4,460	301	4,030	1,030
13	4,710	4,300	7,780	11,700	9,300	9,860	5,580	4,730	4,860	2,390	4,890	774
14	3,990	4,960	7,210	19,500	8,940	9,480	7,120	5,240	3,580	4,160	2,430	3,670
15	4,480	3,870	5,990	18,200	8,730	9,120	6,360	5,660	4,020	5,010	877	3,200
16	2,920	3,700	5,800	24,600	9,700	8,760	6,360	6,150	5,130	4,510	1,530	4,890
17	3,750	5,450	5,570	35,200	9,700	8,460	6,010	3,280	4,220	5,020	4,620	4,320
18	4,930	5,340	4,730	28,500	9,970	8,130	6,180	4,330	3,760	2,010	4,420	5,990
19	3,240	5,760	9,120	25,300	9,740	8,060	5,150	4,970	3,990	252	4,350	1,750
20	4,940	5,320	10,800	23,600	9,120	8,060	5,330	5,280	5,550	4,400	4,770	3,190
21	3,940	2,750	12,200	33,100	8,760	8,030	5,240	6,190	6,360	5,070	5,260	4,400
22	4,090	3,510	10,900	40,800	8,360	8,030	5,880	6,740	5,220	5,620	554	4,400
23	3,900	2,970	10,900	53,900	8,360	7,250	5,380	7,830	5,920	5,020	1,420	4,670
24	3,830	3,590	9,670	52,800	8,350	5,720	6,070	7,830	5,020	5,900	3,920	4,390
25	3,310	3,360	9,150	45,600	8,330	7,490	6,380	7,830	7,830	1,370	6,050	4,950
26	4,470	2,840	8,900	40,000	7,990	6,400	5,550	7,020	5,660	209	4,860	2,310
27	3,560	3,220	7,900	37,200	7,220	7,350	4,990	5,460	333	868	4,310	2,130
28	3,150	3,730	7,880	28,100	7,560	6,170	5,630	4,940	300	4,420	4,460	3,670
29	3,690	3,120	6,590	23,300	------	6,740	5,590	4,080	2,980	4,260	4,420	3,920
30	4,230	3,430	6,320	19,100	------	6,500	5,290	3,270	6,030	4,300	4,470	4,520
31	4,520	------	6,270	16,300	------	6,520	------	4,550	------	4,620	6,290	------
TOTAL	119,420	116,010	203,430	647,740	263,360	254,890	173,640	162,890	128,973	113,240	113,038	105,994
MEAN	3,852	3,867	6,562	20,890	9,406	8,222	5,788	5,255	4,299	3,653	3,646	3,533
MAX	5,430	5,760	12,200	53,900	13,700	10,400	7,120	7,830	7,830	5,900	6,290	5,990
MIN	1,960	2,320	1,670	3,850	7,220	5,720	4,970	3,140	300	209	302	230
AC-FT	236,900	230,100	403,500	1,285M	522,400	505,600	344,400	323,100	255,800	224,600	224,200	210,200

CAL YR 1969 TOTAL 2,287,830 MEAN 6,268 MAX 29,400 MIN 482 AC-FT 4,538,000
WTR YR 1970 TOTAL 2,402,625 MEAN 6,583 MAX 53,900 MIN 209 AC-FT 4,766,000

M EXPRESSED IN THOUSANDS.

11365500 SQUAW CREEK ABOVE SHASTA LAKE, CALIF.

LOCATION.--Lat 40°51'25", long 122°05'08", in SW¼ sec.29, T.35 N., R.2 W., Shasta County, Shasta National Forest, on left bank 1.3 miles upstream from Salt Creek, 2 miles upstream from Shasta Lake, and 10 miles west of town of Montgomery Creek.

DRAINAGE AREA.--64.0 sq mi.

PERIOD OF RECORD.--October 1944 to September 1966. Annual maximums, water years 1969-70. Monthly discharge only for some periods, published in WSP 1315-A. Published as "above Shasta Reservoir" prior to 1950.

GAGE.--Crest-stage gage. Altitude of gage is 1,170 ft (from topographic map). Prior to Oct. 1, 1966, water-stage recorder at present site and datum.

AVERAGE DISCHARGE.--22 years, 230 cfs (166,500 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966 and 1969-70 are contained in the following table:

Annual maximum discharge (*), peak discharges above base (2,000 cfs), and annual minimum discharge

	Maximum				Minimum daily	
Wtr yr	Date	Time	Discharge	G.H.	Date	Discharge
1966	Jan. 6, 1966	1100	*3,820	13.58	Many days	12
	Feb. 5, 1966	1300	2,860	12.50		
1969	Jan. 21, 1969	-	*11,100	18.86		
1970	Jan. 23, 1970	-	*14,900	20.69		

Period of record: Maximum discharge, 17,800 cfs Dec. 21, 1955 (gage height, 21.90 ft), from rating curve extended above 4,200 cfs on basis of slope-area measurement at gage height 18.90 ft; minimum, 9.9 cfs Sept. 24-26, 27, 1962.

REMARKS.--Records good. Small diversions above station for irrigation. See schematic diagram for Pit and McCloud River basins elsewhere in this report.

REVISIONS.--WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	14	132	324	282	407	350	125	62	30	19	14
2	14	14	120	250	269	380	335	120	60	30	18	13
3	14	14	111	317	271	344	313	116	59	30	18	13
4	14	15	107	1,790	879	315	290	115	58	29	17	13
5	15	16	101	2,440	2,660	310	273	114	56	29	16	12
6	16	16	98	3,180	2,070	321	260	109	56	28	16	12
7	15	17	93	1,660	1,110	413	250	107	57	28	16	12
8	14	34	89	1,160	790	920	238	102	56	28	15	12
9	14	21	85	985	620	2,600	254	101	53	28	15	12
10	14	17	81	715	508	2,300	273	99	51	28	15	12
11	15	18	78	552	436	1,700	284	96	50	26	15	12
12	14	45	74	439	386	1,050	395	93	48	26	15	12
13	14	78	71	380	347	1,200	327	91	46	26	14	13
14	15	229	67	338	318	1,300	290	88	45	26	14	13
15	16	191	65	327	290	970	267	86	42	25	14	13
16	16	96	62	341	271	740	254	85	40	24	14	12
17	15	139	60	332	258	632	248	81	40	24	14	12
18	15	286	59	310	248	564	232	80	39	24	14	13
19	15	584	56	282	363	508	218	78	38	23	13	15
20	15	297	55	258	492	456	202	75	37	22	13	12
21	14	173	54	240	450	422	191	74	37	21	13	12
22	14	120	52	230	442	389	180	72	37	21	13	12
23	14	148	50	212	480	365	173	70	37	21	13	12
24	14	755	59	195	536	350	162	69	37	20	13	12
25	14	548	61	182	532	344	158	66	35	20	13	12
26	14	395	54	173	492	344	149	66	34	20	13	12
27	14	368	55	164	453	350	145	64	32	19	13	12
28	14	252	507	158	425	356	138	63	32	19	13	12
29	14	191	702	182	------	359	132	62	31	18	15	12
30	14	155	600	267	------	359	127	62	31	18	16	12
31	14	------	500	275	------	356	------	63	------	19	16	------
TOTAL	448	5,246	4,358	18,658	16,678	21,424	7,108	2,692	1,336	750	456	372
MEAN	14.5	175	141	602	596	691	237	86.8	44.5	24.2	14.7	12.4
MAX	16	755	702	3,180	2,660	2,600	395	125	62	30	19	15
MIN	14	14	50	158	248	310	127	62	31	18	13	12
AC-FT	889	10,410	8,640	37,010	33,080	42,490	14,100	5,340	2,650	1,490	904	738

CAL YR 1965 TOTAL 79,316 MEAN 217 MAX 4,160 MIN 14 AC-FT 157,300
WTR YR 1966 TOTAL 79,526 MEAN 218 MAX 3,180 MIN 12 AC-FT 157,700

11367500 McCLOUD RIVER NEAR McCLOUD, CALIF.

LOCATION.--Lat 41°11'18", long 122°03'52", in NE¼ sec.34, T.39 N., R.2 W., Siskiyou County, on right bank 0.4 mile downstream from Angel Creek and 6 miles southeast of McCloud.

DRAINAGE AREA.--358 sq mi.

PERIOD OF RECORD.--April 1931 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 2,711.2 ft above mean sea level (river-profile survey).

AVERAGE DISCHARGE.--39 years, 918 cfs (665,100 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (1,500 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Apr. 10, 1966	1100	*1,720	2.65	June 20, 1967	0900	1,510	2.39	Apr. 23, 1969	1200	1,910	2.93
								May 14, 1969	1100	2,290	3.29
Nov. 20, 1966	1400	1,670	2.57	Feb. 23, 1968	1415	*1,670	2.57				
Dec. 5, 1966	0900	*2,310	3.23					Dec. 12, 1969	2030	1,520	2.41
Jan. 30, 1967	2200	1,500	2.38	Dec. 10, 1968	2200	1,820	2.73	Dec. 21, 1969	1330	5,040	5.37
Mar. 16, 1967	2400	1,960	2.88	Jan. 21, 1969	1300	*3,290	4.08	Jan. 14, 1970	1100	4,040	4.66
Mar. 23, 1967	1700	1,570	2.46	Jan. 26, 1969	1000	2,170	3.09	Jan. 17, 1970	1400	2,970	3.82
May 10, 1967	0700	1,760	2.67	Feb. 11, 1969	2200	1,860	2.77	Jan. 23, 1970	2230	*11,700	9.36
May 23, 1967	0900	2,210	3.13	Apr. 5, 1969	1700	1,740	2.64	Feb. 12, 1970	2400	1,590	2.35
								Mar. 1, 1970	0400	1,730	2.51

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Feb. 2, 3, 1966	749	1969	Dec. 2-8, 1968	737
1967	Oct. 28-31, Nov. 1-5, 9, 10, 1966	728	1970	Dec. 7, 1969	803
1968	Sept.30, 1968	765			

Period of record: Maximum discharge, 11,800 cfs Dec. 21, 1955 (gage heights, 9.42 ft in gage well, 10.7 ft, from floodmarks), from rating curve extended above 8,800 cfs on basis of slope-area measurement of peak flow; minimum, 524 cfs Nov. 23, 24, 1932.

REMARKS.--Two small diversions above station for irrigation and one 22-inch pipeline for town of McCloud and millpond. See schematic diagram of Pit and McCloud River basins elsewhere in this report.

COOPERATION.--Records collected by Pacific Gas & Electric Co., under general supervision of the Geological Survey, in connection with a Federal Power Commission project.

REVISIONS (WATER YEARS).--WSP 843: 1936(M). WSP 1445: 1940(M). WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	830	785	798	767	761	767	1,260	1,160	994	850	811	785
2	824	779	798	773	749	767	1,320	1,170	974	850	804	779
3	818	779	798	779	749	761	1,330	1,180	960	844	804	779
4	818	779	792	779	773	761	1,310	1,220	948	844	804	779
5	818	779	792	779	837	761	1,310	1,260	941	844	798	779
6	818	779	792	804	850	773	1,340	1,260	934	837	798	779
7	811	792	792	798	824	798	1,380	1,240	941	837	798	779
8	811	798	792	811	804	856	1,400	1,220	941	844	798	773
9	818	779	792	818	798	1,000	1,430	1,220	941	844	798	773
10	818	779	785	811	785	1,230	1,650	1,230	934	844	798	773
11	811	785	785	804	779	1,180	1,580	1,210	928	844	798	773
12	798	792	785	798	773	1,090	1,510	1,180	922	837	798	773
13	792	811	785	792	767	1,140	1,420	1,170	915	837	798	773
14	792	870	779	785	767	1,260	1,380	1,170	908	830	798	773
15	792	856	779	785	761	1,300	1,370	1,140	908	830	798	773
16	792	818	773	785	761	1,220	1,410	1,120	902	830	792	767
17	792	856	773	779	755	1,110	1,450	1,110	896	824	785	767
18	792	967	773	773	755	1,060	1,420	1,100	896	824	785	773
19	792	941	767	773	761	1,040	1,330	1,110	889	818	785	767
20	785	922	767	773	761	1,000	1,280	1,110	889	818	785	767
21	785	896	767	767	761	980	1,240	1,110	882	818	785	767
22	785	856	767	773	767	967	1,220	1,110	882	818	785	767
23	785	863	767	767	779	960	1,220	1,070	876	818	785	767
24	785	928	773	761	785	967	1,230	1,060	876	818	785	767
25	785	896	773	761	779	980	1,260	1,060	870	818	785	761
26	785	856	767	761	773	1,000	1,260	1,060	863	811	785	761
27	785	830	773	761	767	1,030	1,220	1,050	856	811	785	755
28	785	818	792	761	767	1,060	1,210	1,040	856	811	785	755
29	785	811	785	767	------	1,100	1,180	1,020	850	811	785	755
30	785	804	779	761	------	1,140	1,170	1,010	850	811	785	755
31	785	------	773	761	------	1,190	------	1,000	------	811	785	------
TOTAL	24,757	25,004	24,213	24,167	21,748	31,248	40,090	35,170	27,222	25,686	24,568	23,094
MEAN	799	833	781	780	777	1,008	1,336	1,135	907	829	793	770
MAX	830	967	798	818	850	1,300	1,650	1,260	994	850	811	785
MIN	785	779	767	761	749	761	1,170	1,000	850	811	785	755
AC-FT	49,110	49,600	48,030	47,940	43,140	61,980	79,520	69,760	53,990	50,950	48,730	45,810

CAL YR 1965 TOTAL 355,569 MEAN 974 MAX 2,250 MIN 767 AC-FT 705,300
WTR YR 1966 TOTAL 326,967 MEAN 896 MAX 1,650 MIN 749 AC-FT 648,500

11367500 McCLOUD RIVER NEAR McCLOUD, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	744	728	936	822	1,260	887	1,130	1,070	1,560	1,250	982	936
2	744	728	1,280	815	1,160	894	1,110	1,090	1,520	1,210	982	936
3	744	728	1,310	815	1,080	894	1,100	1,110	1,450	1,150	982	936
4	744	728	1,670	815	1,050	887	1,100	1,130	1,450	1,140	982	929
5	744	728	2,140	809	1,020	880	1,120	1,190	1,470	1,120	982	929
6	744	738	1,480	803	990	874	1,130	1,250	1,460	1,110	974	929
7	744	738	1,240	797	974	874	1,130	1,310	1,490	1,100	974	929
8	738	733	1,120	797	958	874	1,130	1,430	1,490	1,090	974	922
9	738	728	1,050	791	943	887	1,150	1,640	1,480	1,080	974	922
10	738	728	1,010	791	943	958	1,190	1,740	1,480	1,070	966	922
11	738	733	966	791	929	958	1,170	1,590	1,470	1,070	966	922
12	738	738	982	791	936	958	1,150	1,480	1,440	1,060	958	922
13	738	750	1,030	791	943	936	1,160	1,450	1,410	1,050	958	915
14	738	767	1,070	791	936	922	1,170	1,470	1,390	1,050	950	915
15	738	867	1,010	791	922	922	1,160	1,530	1,390	1,050	950	915
16	738	990	974	791	908	1,460	1,140	1,660	1,400	1,050	950	915
17	738	815	950	785	908	1,760	1,150	1,790	1,410	1,050	950	915
18	738	773	922	785	901	1,500	1,130	1,840	1,410	1,050	950	915
19	738	828	915	791	894	1,400	1,110	2,010	1,470	1,040	950	915
20	738	1,460	908	797	887	1,330	1,090	2,010	1,480	1,030	950	908
21	738	1,270	887	791	887	1,290	1,090	2,040	1,430	1,030	950	908
22	738	1,010	880	791	880	1,290	1,090	2,110	1,370	1,020	950	908
23	733	894	880	791	880	1,500	1,090	2,150	1,320	1,020	950	908
24	733	854	867	791	887	1,450	1,090	2,120	1,290	1,010	950	908
25	733	828	860	791	894	1,350	1,090	1,950	1,280	1,010	950	901
26	733	809	854	791	880	1,290	1,110	1,850	1,260	1,010	950	901
27	733	797	841	797	880	1,250	1,110	1,840	1,250	998	950	901
28	728	815	834	908	887	1,250	1,090	1,850	1,230	998	943	901
29	728	874	834	1,340	------	1,210	1,080	1,840	1,220	998	943	901
30	728	880	834	1,450	------	1,190	1,070	1,760	1,220	998	943	901
31	728	------	828	1,400	------	1,170	------	1,620	------	990	943	------
TOTAL	22,855	25,057	32,362	26,600	26,617	35,295	33,630	50,920	41,990	32,902	29,726	27,485
MEAN	737	835	1,044	858	951	1,139	1,121	1,643	1,400	1,061	959	916
MAX	744	1,460	2,140	1,450	1,260	1,760	1,190	2,150	1,560	1,250	982	936
MIN	728	728	828	785	880	874	1,070	1,070	1,220	990	943	901
AC-FT	45,330	49,700	64,190	52,760	52,790	70,010	66,710	101,000	83,290	65,260	58,960	54,520

CAL YR 1966 TOTAL 333,267 MEAN 913 MAX 2,140 MIN 728 AC-FT 661,000
WTR YR 1967 TOTAL 385,439 MEAN 1,056 MAX 2,150 MIN 728 AC-FT 764,500

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	880	845	827	809	835	1,120	1,220	1,100	996	850	828	786
2	901	845	833	824	835	1,090	1,180	1,090	996	842	821	786
3	894	845	837	835	835	1,080	1,160	1,090	981	842	821	786
4	880	845	863	835	828	1,070	1,130	1,110	981	842	821	786
5	880	846	857	835	828	1,090	1,120	1,120	1,030	842	814	779
6	874	843	837	835	828	1,100	1,120	1,090	1,010	842	800	779
7	874	841	837	835	835	1,070	1,110	1,080	973	835	800	779
8	874	843	827	835	835	1,050	1,100	1,060	959	835	800	779
9	874	840	824	850	835	1,030	1,100	1,060	944	835	800	779
10	874	841	823	835	842	1,000	1,120	1,060	936	828	800	779
11	867	840	822	842	842	996	1,170	1,070	929	828	793	779
12	867	838	820	835	842	1,000	1,200	1,060	922	828	793	779
13	867	840	816	842	842	1,000	1,160	1,090	915	828	800	779
14	860	856	812	878	842	1,000	1,140	1,090	915	828	800	779
15	860	844	818	936	842	1,020	1,140	1,060	907	828	800	779
16	860	839	820	907	842	1,050	1,130	1,030	900	821	800	779
17	859	838	820	871	915	1,040	1,100	1,030	893	821	800	779
18	857	839	823	864	951	1,010	1,090	1,030	893	821	800	779
19	857	842	816	857	973	996	1,080	1,050	886	821	807	779
20	855	836	814	850	1,070	988	1,070	1,300	878	821	807	772
21	856	834	813	850	1,390	981	1,060	1,250	878	814	800	772
22	855	833	812	850	1,500	981	1,040	1,150	871	814	800	772
23	853	832	812	850	1,620	988	1,040	1,120	871	814	800	772
24	852	831	811	842	1,550	996	1,030	1,090	864	814	793	772
25	851	830	811	842	1,370	1,070	1,030	1,090	864	814	793	772
26	850	828	813	842	1,250	1,150	1,040	1,080	864	807	793	772
27	849	829	815	842	1,200	1,100	1,050	1,060	857	821	793	772
28	849	829	815	842	1,160	1,090	1,060	1,060	857	828	793	772
29	847	837	814	842	1,130	1,110	1,060	1,040	850	828	786	772
30	846	833	811	842	------	1,150	1,090	1,030	850	828	786	765
31	845	------	809	835	------	1,170	------	1,010	------	828	786	------
TOTAL	26,767	25,162	25,482	26,289	29,467	32,586	33,140	33,650	27,470	25,648	24,828	23,314
MEAN	863	839	822	848	1,016	1,051	1,105	1,085	916	827	801	777
MAX	901	856	863	936	1,620	1,170	1,220	1,300	1,030	850	828	786
MIN	845	828	809	809	828	981	1,030	1,010	850	807	786	765
AC-FT	53,090	49,910	50,540	52,140	58,450	64,630	65,730	66,740	54,490	50,870	49,250	46,240

CAL YR 1967 TOTAL 382,576 MEAN 1,048 MAX 2,150 MIN 785 AC-FT 758,800
WTR YR 1968 TOTAL 333,803 MEAN 912 MAX 1,620 MIN 765 AC-FT 662,100

11367500 McCLOUD RIVER NEAR McCLOUD, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	758	751	744	765	1,070	915	1,370	1,620	1,470	1,060	966	907
2	758	758	737	758	1,030	900	1,370	1,590	1,450	1,060	966	907
3	758	758	737	758	1,000	893	1,310	1,580	1,440	1,050	966	907
4	758	758	737	758	988	886	1,270	1,520	1,430	1,050	959	900
5	758	758	737	758	981	886	1,620	1,550	1,420	1,040	959	900
6	758	751	737	758	966	886	1,560	1,630	1,380	1,040	951	900
7	758	751	737	758	936	878	1,440	1,730	1,350	1,030	951	900
8	751	751	737	758	929	871	1,420	1,800	1,310	1,030	951	900
9	751	751	751	758	988	871	1,400	1,910	1,300	1,030	959	893
10	758	751	1,280	758	1,100	864	1,370	1,960	1,270	1,030	951	893
11	779	758	1,330	765	1,570	857	1,410	2,060	1,280	1,020	944	893
12	807	800	1,010	765	1,650	850	1,460	2,190	1,260	1,020	944	893
13	786	786	922	779	1,380	850	1,460	2,160	1,240	1,020	944	893
14	786	772	893	821	1,260	850	1,450	2,250	1,220	1,020	936	893
15	772	765	973	821	1,200	850	1,420	2,080	1,200	1,010	936	893
16	765	758	936	807	1,150	864	1,420	1,940	1,180	1,010	936	886
17	758	758	886	786	1,100	886	1,450	1,910	1,170	1,000	929	886
18	758	772	850	786	1,070	951	1,530	1,910	1,150	1,000	929	886
19	758	779	835	828	1,050	973	1,520	1,830	1,150	996	929	886
20	758	765	814	1,440	1,030	951	1,560	1,740	1,140	996	929	886
21	751	758	800	3,130	1,000	944	1,620	1,710	1,120	988	922	886
22	751	758	800	2,310	988	951	1,710	1,700	1,110	988	922	878
23	751	751	793	1,640	981	966	1,870	1,710	1,100	988	922	878
24	751	758	800	1,390	973	981	1,700	1,740	1,090	988	922	878
25	751	758	800	1,290	959	988	1,580	1,700	1,090	981	922	871
26	751	751	793	1,980	944	1,010	1,520	1,690	1,090	981	915	871
27	751	751	786	1,640	929	1,050	1,520	1,650	1,090	973	915	871
28	751	744	786	1,400	936	1,100	1,560	1,550	1,080	973	915	871
29	758	744	779	1,260	------	1,150	1,640	1,520	1,070	973	915	871
30	751	744	772	1,180	------	1,200	1,620	1,510	1,060	966	915	864
31	751	------	765	1,110	------	1,300	------	1,490	------	966	907	------
TOTAL	23,561	22,768	26,057	34,515	30,158	29,372	45,150	54,930	36,710	31,277	29,027	26,641
MEAN	760	759	841	1,113	1,077	947	1,505	1,772	1,224	1,009	936	888
MAX	807	800	1,330	3,130	1,650	1,300	1,870	2,250	1,470	1,060	966	907
MIN	751	744	737	758	929	850	1,270	1,490	1,060	966	907	864
AC-FT	46,730	45,160	51,680	68,460	59,820	58,260	89,560	109,000	72,810	62,040	57,580	52,840

CAL YR 1968 TOTAL 328,778 MEAN 898 MAX 1,620 MIN 737 AC-FT 652,100
WTR YR 1969 TOTAL 390,166 MEAN 1,069 MAX 3,130 MIN 737 AC-FT 773,900

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	866	836	808	945	1,640	1,620	1,210	1,070	1,040	958	886	858
2	865	835	807	926	1,560	1,460	1,210	1,070	1,040	958	886	858
3	864	833	807	911	1,520	1,400	1,200	1,080	1,040	958	879	858
4	864	840	807	898	1,490	1,380	1,190	1,090	1,030	958	879	858
5	863	866	807	883	1,440	1,350	1,190	1,090	1,020	958	879	858
6	861	856	804	872	1,410	1,340	1,190	1,090	1,020	951	879	858
7	860	864	803	871	1,380	1,400	1,180	1,070	1,020	951	879	858
8	864	870	808	875	1,360	1,510	1,170	1,080	1,020	944	879	858
9	860	848	806	902	1,340	1,460	1,170	1,100	1,010	944	879	851
10	859	840	816	925	1,330	1,410	1,180	1,080	1,010	944	879	851
11	857	835	893	949	1,310	1,390	1,170	1,070	995	944	879	851
12	857	831	1,350	1,000	1,430	1,370	1,160	1,060	988	944	872	851
13	856	829	1,370	1,540	1,530	1,370	1,170	1,050	988	936	872	851
14	859	829	1,160	3,670	1,430	1,480	1,150	1,040	988	936	872	851
15	870	829	1,080	2,360	1,390	1,480	1,140	1,040	988	944	872	851
16	874	828	990	2,450	1,440	1,440	1,140	1,050	981	936	872	851
17	863	823	958	2,700	1,440	1,410	1,130	1,070	981	936	872	844
18	856	822	954	2,340	1,370	1,380	1,120	1,100	973	936	872	844
19	853	821	1,250	2,130	1,340	1,350	1,120	1,120	973	929	865	844
20	850	820	1,810	2,310	1,330	1,340	1,110	1,110	981	922	865	844
21	849	819	3,910	2,970	1,320	1,320	1,100	1,100	981	908	865	844
22	848	818	2,090	4,090	1,300	1,310	1,100	1,090	981	893	865	844
23	845	817	1,520	10,000	1,280	1,300	1,090	1,090	981	893	865	844
24	845	816	1,300	7,490	1,270	1,290	1,090	1,080	981	893	865	844
25	843	814	1,300	3,810	1,260	1,280	1,090	1,080	973	893	865	837
26	843	814	1,220	3,010	1,250	1,270	1,090	1,080	973	893	865	837
27	842	814	1,120	2,940	1,250	1,260	1,090	1,080	973	893	865	837
28	841	814	1,060	2,310	1,380	1,250	1,080	1,070	973	886	865	837
29	839	814	1,020	2,070	------	1,240	1,070	1,050	973	886	865	837
30	837	813	991	1,890	------	1,230	1,070	1,050	958	886	858	837
31	836	------	964	1,740	------	1,220	------	1,040	------	886	858	------
TOTAL	26,489	24,908	36,383	72,777	38,790	42,310	34,170	33,340	29,833	28,697	27,018	25,446
MEAN	854	830	1,174	2,348	1,385	1,365	1,139	1,075	994	926	872	848
MAX	874	870	3,910	10,000	1,640	1,620	1,210	1,120	1,040	958	886	858
MIN	836	813	803	871	1,250	1,220	1,070	1,040	958	886	858	837
AC-FT	52,540	49,410	72,170	144,400	76,940	83,920	67,780	66,130	59,170	56,920	53,590	50,470

CAL YR 1969 TOTAL 405,560 MEAN 1,111 MAX 3,910 MIN 758 AC-FT 804,400
WTR YR 1970 TOTAL 420,161 MEAN 1,151 MAX 10,000 MIN 803 AC-FT 833,400

11367720 McCLOUD-IRON CANYON DIVERSION TUNNEL NEAR McCLOUD, CALIF.

LOCATION.--Lat 41°08'06", long 122°04'26", in SE¼SW¼ sec.22, T.38 N., R.2 W., Shasta County, Shasta National Forest, on left bank of McCloud Reservoir, 8.8 miles southeast of McCloud.

PERIOD OF RECORD.--December 1965 to September 1970.

GAGE.--None. Water-stage recorders on McCloud Reservoir and Iron Canyon Reservoir used to compute record.

EXTREMES.--Period of record: Maximum daily discharge, 1,890 cfs May 20-22, June 1-3, 10, 1967; no flow for several days in 1965-68.

REMARKS.--Water is diverted from McCloud Reservoir (see station 11367740) to Iron Canyon Reservoir (see station 11363920) and thence into James B. Black powerplant (see station 11363910) on Pit River. Diversion began Dec. 1, 1965. See schematic diagram of Pit and McCloud River basins elsewhere in this report.

COOPERATION.--Records collected by Pacific Gas & Electric Co., under general supervision of the Geological Survey, in connection with a Federal Power Commission project.

DISCHARGE, IN CUBIC FEET PER SECOND, DECEMBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	924	858	896	1,550	1,450	440	1,310	843	912
2			41	916	819	892	1,540	1,480	0	1,110	836	903
3			205	912	789	894	1,540	1,450	884	1,070	810	962
4			317	908	777	901	1,570	1,400	1,230	1,030	796	938
5			573	898	824	894	1,580	1,400	1,270	1,030	783	827
6			404	897	863	885	1,590	1,430	1,310	302	860	719
7			0	894	893	883	1,590	1,480	1,300	302	860	659
8			0	901	907	858	1,570	1,450	1,320	907	865	591
9			0	906	918	896	1,590	1,430	1,260	1,150	886	539
10			0	908	918	954	1,580	1,400	1,280	1,080	881	509
11			210	909	922	1,010	1,690	1,350	1,140	1,110	858	460
12			704	906	925	1,010	1,750	1,290	1,000	1,110	865	439
13			621	908	927	1,080	1,750	1,260	930	1,080	812	502
14			453	896	932	1,190	1,750	1,230	935	1,060	700	562
15			630	908	912	1,280	1,750	1,240	907	1,080	653	596
16			525	912	872	1,370	1,750	1,260	888	1,090	710	656
17			904	920	882	1,450	1,740	1,240	876	1,080	749	719
18			1,490	926	927	1,510	1,730	1,200	854	1,020	765	746
19			1,350	907	862	1,560	1,710	1,210	868	998	773	732
20			1,270	908	837	1,630	1,660	1,200	891	978	735	706
21			1,170	901	816	1,640	1,600	1,180	903	958	637	722
22			1,310	912	840	1,620	1,590	1,180	926	940	618	768
23			1,070	918	829	1,600	1,560	1,210	826	872	705	791
24			1,100	920	874	1,580	1,550	1,180	976	691	778	798
25			997	905	890	1,560	1,550	1,110	917	761	827	768
26			993	910	898	1,540	1,530	1,090	886	792	836	793
27			972	865	907	1,500	1,600	1,090	408	812	865	815
28			972	876	909	1,460	1,610	1,120	0	812	874	830
29			946	886	------	1,460	1,580	1,100	0	847	856	830
30			938	892	------	1,490	1,560	1,080	555	887	881	822
31			909	901	------	1,510	------	1,080	------	872	898	------
TOTAL			21,074	28,050	24,527	39,003	48,710	39,270	25,980	29,141	24,815	21,614
MEAN			680	905	876	1,258	1,624	1,267	866	940	800	720
MAX			1,490	926	932	1,640	1,750	1,480	1,320	1,310	898	962
MIN			0	865	777	858	1,530	1,080	0	302	618	439
AC-FT			41,800	55,640	48,650	77,360	96,620	77,890	51,530	57,800	49,220	42,870

WTR YR 1966 TOTAL 302,184 MEAN 828 MAX 1,750 MIN 0 AC-FT 599,400

11367720 McCLOUD-IRON CANYON DIVERSION TUNNEL NEAR McCLOUD, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	812	656	1,160	1,230	1,290	1,250	1,690	1,430	1,890	1,630	1,040	1,040
2	802	671	1,180	1,140	1,410	1,270	1,620	1,620	1,890	1,500	1,070	968
3	795	735	1,350	1,100	1,440	1,240	1,620	1,550	1,890	1,450	1,090	875
4	790	838	1,510	1,060	1,370	1,180	1,670	1,550	1,870	1,430	1,110	802
5	788	851	1,530	1,050	1,310	1,160	1,670	1,530	1,880	1,410	1,080	773
6	788	832	1,370	1,100	1,270	1,180	1,630	1,520	1,880	1,480	1,000	851
7	778	832	1,280	1,100	1,330	1,140	1,580	1,490	1,880	1,530	938	934
8	773	730	1,190	1,060	1,400	1,110	1,570	1,530	1,880	1,530	1,050	1,000
9	778	918	1,100	1,040	1,400	1,090	1,610	1,630	1,880	1,480	1,130	992
10	773	960	1,030	1,080	1,450	1,070	1,610	1,680	1,890	1,410	1,130	910
11	793	901	950	1,110	1,410	1,090	1,620	1,690	1,880	1,350	1,100	858
12	798	807	970	1,090	1,390	1,090	1,630	1,710	1,880	1,340	1,070	940
13	807	656	1,070	1,070	1,410	1,090	1,580	1,730	1,880	1,370	952	1,050
14	812	590	1,170	1,020	1,450	1,080	1,620	1,700	1,870	1,400	896	1,160
15	775	676	1,260	996	1,390	1,080	1,650	1,740	1,870	1,400	918	1,240
16	640	760	1,340	998	1,400	1,080	1,570	1,760	1,870	1,330	929	1,170
17	610	795	1,400	1,020	1,340	1,170	1,520	1,700	1,860	1,270	945	1,020
18	682	817	1,460	1,030	1,260	1,320	1,590	1,810	1,850	1,240	954	982
19	705	830	1,540	1,060	1,250	1,420	1,640	1,840	1,850	1,190	964	1,070
20	751	954	1,580	1,160	1,260	1,490	1,620	1,890	1,850	1,170	914	1,150
21	768	1,120	1,550	1,100	1,320	1,430	1,610	1,890	1,850	1,180	918	1,170
22	710	1,260	1,500	936	1,300	1,380	1,600	1,890	1,850	1,140	958	1,150
23	691	1,380	1,450	858	1,280	1,350	1,510	1,870	1,860	1,080	1,020	1,060
24	735	1,350	1,420	746	1,290	1,360	1,390	1,870	1,850	1,080	1,060	910
25	751	1,280	1,300	708	1,270	1,430	1,460	1,870	1,830	1,140	1,080	903
26	773	1,270	1,360	688	1,260	1,500	1,520	1,840	1,810	1,140	1,060	974
27	768	1,290	1,340	679	1,270	1,590	1,540	1,860	1,790	1,220	1,030	992
28	759	1,290	1,320	722	1,230	1,670	1,530	1,830	1,780	1,220	1,020	1,030
29	732	1,240	1,280	793	------	1,730	1,580	1,860	1,780	1,200	1,070	1,070
30	677	1,190	1,240	945	------	1,650	1,520	1,840	1,740	1,100	1,070	1,000
31	650	------	1,240	1,150	------	1,700	------	1,870	------	1,030	1,050	------
TOTAL	23,264	28,479	40,440	30,839	37,450	40,390	47,570	53,590	55,630	40,440	31,616	30,044
MEAN	750	949	1,305	995	1,338	1,303	1,586	1,729	1,854	1,305	1,020	1,001
MAX	812	1,380	1,580	1,230	1,450	1,730	1,690	1,890	1,890	1,630	1,130	1,240
MIN	610	590	950	679	1,230	1,070	1,390	1,430	1,740	1,030	896	773
AC-FT	46,140	56,490	80,210	61,170	74,280	80,110	94,360	106,300	110,300	80,210	62,710	59,590

CAL YR 1966 TOTAL 373,293.00 MEAN 1,023 MAX 1,750 MIN 0 AC-FT 740,400
WTR YR 1967 TOTAL 459,752.00 MEAN 1,260 MAX 1,890 MIN 590 AC-FT 911,900

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	730	1,060	783	789	850	1,620	1,370	1,090	1,030	567	700	750
2	688	1,060	854	783	886	1,610	1,380	1,100	998	634	702	671
3	728	951	779	811	848	1,590	1,370	1,110	1,010	656	707	683
4	766	823	766	817	804	1,560	1,370	951	969	623	709	734
5	823	781	777	844	800	1,570	1,370	954	964	757	709	794
6	860	766	815	860	815	1,560	1,370	932	978	752	711	848
7	815	844	858	779	819	1,540	1,340	964	969	678	714	886
8	723	768	860	741	802	1,530	1,330	1,010	985	646	714	899
9	668	700	834	796	759	1,530	1,320	985	996	634	728	919
10	716	318	794	819	714	1,520	1,340	1,040	1,010	707	737	958
11	766	0	779	832	668	1,470	1,330	980	1,010	714	737	985
12	783	429	794	825	734	1,450	1,340	866	993	746	737	1,020
13	804	1,170	827	728	838	1,450	1,350	896	1,000	678	734	1,000
14	739	1,090	864	644	872	1,440	1,350	909	1,000	651	734	924
15	654	1,090	870	693	884	1,430	1,350	998	866	688	746	811
16	697	1,090	796	809	896	1,410	1,330	1,110	759	732	746	807
17	842	1,030	673	846	907	1,410	1,320	1,120	794	683	746	856
18	958	938	666	852	928	1,420	1,310	1,020	796	623	728	872
19	953	846	732	850	943	1,420	1,310	915	813	581	732	898
20	954	815	772	862	956	1,410	1,210	973	779	597	752	922
21	917	827	807	844	998	1,390	1,070	1,020	714	610	777	804
22	884	852	884	825	1,120	1,390	1,020	1,020	634	623	798	695
23	922	817	919	829	1,290	1,390	1,060	1,010	567	623	825	737
24	964	813	848	834	1,400	1,370	1,090	1,040	600	636	844	802
25	945	832	774	836	1,480	1,350	1,110	1,040	644	644	840	886
26	930	777	759	838	1,580	1,300	1,100	1,010	668	661	850	936
27	905	757	787	846	1,620	1,300	1,040	1,030	664	668	870	973
28	888	750	809	842	1,620	1,350	1,020	1,040	613	676	905	844
29	884	743	809	821	1,620	1,340	1,070	1,080	556	683	907	709
30	958	725	836	823	------	1,330	1,110	1,060	509	688	936	739
31	985	------	842	836	------	1,350	------	1,030	------	695	838	------
TOTAL	25,849	24,462	24,967	25,154	29,451	44,800	37,450	31,303	24,888	20,554	23,913	25,362
MEAN	834	815	805	811	1,016	1,445	1,248	1,010	830	663	771	845
MAX	985	1,170	919	862	1,620	1,620	1,380	1,120	1,030	757	936	1,020
MIN	654	0	666	644	668	1,300	1,020	866	509	567	700	671
AC-FT	51,270	48,520	49,520	49,890	58,420	88,860	74,280	62,090	49,370	40,770	47,430	50,310

CAL YR 1967 TOTAL 442,847 MEAN 1,213 MAX 1,890 MIN 0 AC-FT 878,400
WTR YR 1968 TOTAL 338,153 MEAN 924 MAX 1,620 MIN 0 AC-FT 670,700

11367720 McCLOUD-IRON CANYON DIVERSION TUNNEL NEAR McCLOUD, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	800	790	673	936	1,540	1,390	1,340	1,600	1,610	1,050	963	709
2	841	738	693	936	1,560	1,350	1,310	1,620	1,610	1,030	878	742
3	836	676	713	918	1,550	1,260	1,290	1,630	1,610	1,070	830	815
4	857	673	693	798	1,480	1,210	1,370	1,580	1,610	988	841	864
5	857	719	691	671	1,470	1,210	1,400	1,620	1,600	897	877	909
6	761	726	719	696	1,460	1,210	1,370	1,620	1,610	821	926	848
7	645	738	719	691	1,420	1,250	1,430	1,610	1,610	655	965	817
8	713	732	693	709	1,460	1,290	1,480	1,610	1,590	751	979	857
9	755	619	734	707	1,460	1,290	1,490	1,610	1,600	726	909	899
10	662	601	773	763	1,470	1,240	1,500	1,610	1,580	730	847	949
11	707	631	884	745	1,490	1,210	1,510	1,610	1,590	787	873	1,010
12	696	682	929	671	1,510	1,240	1,500	1,610	1,550	832	916	1,090
13	682	732	987	685	1,560	1,260	1,510	1,620	1,530	837	970	1,170
14	709	765	1,010	726	1,570	1,230	1,540	1,610	1,520	885	996	1,250
15	696	808	1,010	779	1,540	1,220	1,530	1,620	1,490	942	1,040	1,330
16	693	719	1,060	787	1,530	1,200	1,550	1,620	1,490	976	998	1,360
17	709	614	1,060	802	1,530	1,170	1,540	1,610	1,500	1,020	906	1,330
18	707	709	1,060	800	1,520	1,140	1,580	1,590	1,470	1,080	916	1,210
19	722	740	1,080	771	1,540	1,090	1,590	1,600	1,470	1,070	950	1,050
20	678	753	1,060	836	1,530	1,180	1,610	1,600	1,400	1,070	1,020	921
21	696	767	1,060	1,100	1,510	1,180	1,620	1,600	1,400	1,070	985	813
22	749	765	1,020	1,260	1,490	1,160	1,600	1,610	1,360	1,090	952	724
23	751	709	985	1,320	1,480	1,090	1,610	1,630	1,320	1,060	861	655
24	765	621	968	1,390	1,470	1,130	1,600	1,600	1,300	996	787	593
25	753	631	965	1,460	1,450	1,130	1,630	1,580	1,290	955	777	545
26	648	685	977	1,500	1,450	1,180	1,600	1,600	1,280	870	781	507
27	548	759	1,020	1,490	1,430	1,140	1,590	1,610	1,290	798	808	476
28	593	736	1,040	1,540	1,410	1,130	1,600	1,610	1,410	828	836	456
29	650	698	1,020	1,610	------	1,230	1,630	1,610	1,120	877	870	443
30	722	659	1,060	1,590	------	1,290	1,610	1,610	1,100	931	847	473
31	769	------	1,010	1,580	------	1,310	------	1,600	------	952	771	------
TOTAL	22,370	21,195	28,366	31,267	41,880	37,610	45,530	49,860	43,910	28,644	27,875	25,815
MEAN	722	707	915	1,009	1,496	1,213	1,518	1,608	1,464	924	899	861
MAX	857	808	1,080	1,610	1,570	1,390	1,630	1,630	1,610	1,090	1,040	1,360
MIN	548	601	673	671	1,410	1,090	1,290	1,580	1,100	655	771	443
AC-FT	44,370	42,040	56,260	62,020	83,070	74,600	90,310	98,900	87,100	56,820	55,290	51,200

CAL YR 1968 TOTAL 334,806 MEAN 915 MAX 1,620 MIN 509 AC-FT 664,100
WTR YR 1969 TOTAL 404,322 MEAN 1,108 MAX 1,630 MIN 443 AC-FT 802,000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	564	892	606	1,450	1,560	1,580	1,540	1,040	996	1,020	771	1,120
2	657	798	545	1,480	1,570	1,590	1,490	928	950	1,020	753	1,150
3	763	717	572	1,480	1,570	1,600	1,490	841	934	1,020	821	1,140
4	843	696	591	1,470	1,570	1,600	1,340	877	952	1,020	650	1,020
5	832	753	659	1,460	1,610	1,600	1,270	836	974	923	873	911
6	866	794	671	1,470	1,600	1,590	1,260	894	896	899	882	815
7	832	775	633	1,450	1,560	1,600	1,240	899	826	909	904	757
8	767	771	680	1,390	1,560	1,610	1,230	903	848	963	828	777
9	713	765	773	1,420	1,600	1,620	1,240	904	896	968	763	763
10	724	753	845	1,300	1,590	1,610	1,250	929	926	926	792	755
11	745	808	897	1,300	1,590	1,610	1,210	962	955	836	832	751
12	740	864	1,010	1,300	1,580	1,610	1,230	1,020	998	763	864	687
13	719	929	1,140	1,350	1,580	1,610	1,270	1,050	918	757	854	629
14	702	976	1,240	1,510	1,600	1,620	1,360	1,070	863	765	845	671
15	715	974	1,330	1,490	1,570	1,600	1,460	1,120	897	753	783	691
16	728	973	1,370	1,590	1,580	1,610	1,470	1,080	933	757	781	732
17	761	979	1,350	1,600	1,600	1,610	1,490	1,020	966	794	819	788
18	792	963	1,370	1,620	1,610	1,600	1,470	1,060	971	765	852	884
19	806	918	1,390	1,540	1,600	1,610	1,460	1,050	988	736	848	802
20	880	909	1,510	1,550	1,610	1,600	1,400	1,040	1,020	763	845	726
21	914	873	1,560	1,550	1,590	1,600	1,330	1,060	1,040	788	856	761
22	919	800	1,570	1,500	1,580	1,580	1,280	1,070	1,100	868	845	806
23	875	702	1,580	1,400	1,580	1,590	1,240	993	1,110	911	794	825
24	861	696	1,540	1,340	1,590	1,580	1,260	908	1,120	914	826	880
25	864	722	1,540	1,330	1,580	1,580	1,380	936	1,130	839	894	921
26	870	787	1,590	1,350	1,570	1,570	1,380	984	1,090	775	931	859
27	877	730	1,560	1,360	1,570	1,570	1,350	1,010	985	804	946	788
28	884	702	1,580	1,400	1,560	1,560	1,290	1,040	897	828	993	861
29	923	659	1,560	1,450	------	1,560	1,240	1,030	919	828	991	906
30	957	621	1,520	1,510	------	1,530	1,200	1,010	977	839	991	923
31	966	------	1,480	1,580	------	1,540	------	985	------	839	1,060	------
TOTAL	25,059	24,299	36,262	44,990	44,330	49,340	40,120	30,549	29,075	26,590	26,487	25,099
MEAN	808	810	1,170	1,451	1,583	1,592	1,337	985	969	858	854	837
MAX	966	979	1,590	1,620	1,610	1,620	1,540	1,120	1,130	1,020	1,060	1,150
MIN	564	621	545	1,300	1,560	1,530	1,200	836	826	736	650	629
AC-FT	49,700	48,200	71,930	89,240	87,930	97,870	79,580	60,590	57,670	52,740	52,540	49,780

CAL YR 1969 TOTAL 418,011 MEAN 1,145 MAX 1,630 MIN 443 AC-FT 829,100
WTR YR 1970 TOTAL 402,200 MEAN 1,102 MAX 1,620 MIN 545 AC-FT 797,800

11367740 McCLOUD RESERVOIR NEAR McCLOUD, CALIF.

LOCATION.--Lat 41°08'06", long 122°04'26", in SE¼SW¼ sec. 22, T.38 N., R.2 W., Shasta County, Shasta National Forest, on McCloud Dam near spillway on McCloud River, 200 ft downstream from Panther Creek and 8.8 miles southeast of McCloud.

DRAINAGE AREA.--403 sq mi.

PERIOD OF RECORD.--October 1965 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Pacific Gas & Electric Co.).

EXTREMES.--Maximums and minimums (contents in acre-feet, elevation in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum		
Wtr yr	Date	Contents	Elevation	Date	Contents	Elevation
1966	Dec. 14, 1965	35,400	2,680.30	Feb. 2, 1966	19,800	2,644.90
1967	May 20, 22, 1967	35,400	2,680.40	Jan. 22, 23, 1967	15,700	2,632.60
1968	Aug. 10, 1968	34,900	2,679.40	Jan. 12, 1968	16,400	2,634.90
1969	May 14, 1969	35,500	2,680.48	Mar. 18, 1969	17,900	2,639.40
1970	Jan. 21, 1970	35,652	2,680.80	May 1, 1970	23,825	2,655.30

Period of record: Maximum contents, 35,652 acre-ft Jan. 21, 1970 (elevation, 2,680.80 ft); minimum since storage pool first filled, 15,700 acre-ft Jan. 22, 1967 (elevation, 2,632.60 ft).

REMARKS.--Reservoir is formed by a rockfill dam completed in 1965. Capacity, 36,548 acre-ft between elevations 2,571.30 (invert of sluice pipe) and 2,682.50 ft (top of radial gates). No dead storage. Water is diverted from McCloud Reservoir through a diversion tunnel to Iron Canyon Reservoir and thence into Pit River. Beginning with the water year 1970, records of contents are not rounded to U.S. Geological Survey standards. See schematic diagram of Pit and McCloud River basins elsewhere in this report.

COOPERATION.--Record of contents collected by Pacific & Electric Co., under general supervision of the Geological Survey, in connection with a Federal Power Commission project.

MONTHEND ELEVATION AND CONTENTS, WATER YEARS OCTOBER 1965 TO SEPTEMBER 1970

DATE	ELEVATION (FEET)	CONTENTS (ACRE-FEET)	CHANGE IN CONTENTS (ACRE-FEET)
OCT. 31, 1965......	2,469.70	171	-
NOV. 30............	2,660.50	26,000	+25,800
DEC. 31............	2,657.30	24,600	-1,400
CAL YR 1965......	-	-	-
JAN. 31, 1966......	2,645.60	20,100	-4,500
FEB. 28............	2,650.58	21,900	+1,800
MAR. 31............	2,658.58	25,200	+3,300
APR. 30............	2,664.32	27,700	+2,500
MAY 31............	2,670.67	30,600	+2,900
JUNE 30............	2,674.20	32,300	+1,700
JULY 31............	2,660.00	25,800	-6,500
AUG. 31............	2,653.70	23,200	-2,600
SEPT.30............	2,653.20	23,000	-200
WTR YR 1966......	-	-	-
OCT. 31,...........	2,643.40	19,300	-3,700
NOV. 30............	2,641.90	18,700	-600
DEC. 31............	2,655.10	23,700	+5,000
CAL YR 1966......	-	-	-900
JAN. 31, 1967......	2,655.00	23,700	0
FEB. 28............	2,639.60	18,000	-5,700
MAR. 31............	2,672.80	31,600	+13,600
APR. 30............	2,661.10	26,300	-5,300
MAY 31............	2,680.00	35,200	+8,900
JUNE 30............	2,669.80	30,200	-5,000
JULY 31............	2,654.90	23,700	-6,500
AUG. 31............	2,654.70	23,600	-100
SEPT.30............	2,648.30	21,100	-2,500
WTR YR 1967.......	-	-	-1,900
OCT. 31,...........	2,643.90	19,500	-1,600
NOV. 30............	2,639.60	18,000	-1,500
DEC. 31............	2,636.00	16,700	-1,300
CAL YR 1967......	-	-	-7,000
JAN. 31, 1968......	2,640.90	18,400	+1,700
FEB. 29............	2,669.00	29,800	+11,400
MAR. 31............	2,649.40	21,500	-8,300
APR. 30............	2,648.20	21,000	-500
MAY 31............	2,664.00	27,500	+6,500
JUNE 30............	2,667.10	28,900	+1,400
JULY 31............	2,678.50	34,500	+5,600
AUG. 31............	2,673.90	32,200	-2,300
SEPT.30............	2,651.90	22,500	-9,700
WTR YR 1968......	-	-	+1,400
OCT. 31, 1968......	2,647.50	20,800	-1,700
NOV. 30............	2,647.00	20,600	-200
DEC. 31............	2,645.00	19,900	-700
WTR YR 1968......	-	-	+3,200
JAN. 31, 1969......	2,677.90	34,200	+14,300
FEB. 28............	2,659.70	25,700	-8,500
MAR. 31............	2,649.80	21,600	-4,100
APR. 30............	2,680.30	35,400	+13,800
MAY 31............	2,680.30	35,400	0
JUNE 30............	2,664.30	27,700	-7,700
JULY 31............	2,673.10	31,800	+4,100
AUG. 31............	2,672.70	31,600	-200
SEPT.30............	2,668.30	29,500	-2,100
WTR YR 1969......	-	-	+7,000
OCT. 31,...........	2,667.60	29,166	-334
NOV. 30............	2,662.50	26,874	-2,292
DEC. 31............	2,673.80	32,105	+5,231
CAL YR 1969......	-	-	+12,205
JAN. 31, 1970......	2,680.20	35,338	+3,233
FEB. 28............	2,675.60	32,994	-2,344
MAR. 31............	2,672.50	31,474	-1,520
APR. 30............	2,655.40	23,866	-7,608
MAY 31............	2,670.80	30,660	+6,794
JUNE 30............	2,670.40	30,471	-189
JULY 31............	2,673.40	31,910	+1,439
AUG. 31............	2,670.30	30,424	-1,486
SEPT.30............	2,664.30	27,670	-2,754
WTR YR 1970......	-	-	-1,830

11367760 McCLOUD RIVER BELOW McCLOUD DAM, NEAR McCLOUD, CALIF.

LOCATION.--Lat 41°07'44", long 122°04'08", in SW¼NE¼ sec.27, T.38 N., R.2 W., Shasta County, Shasta National Forest, on left bank 0.1 mile downstream from Lizard Creek, 0.6 mile downstream from McCloud Dam, and 9 miles southeast of McCloud.

DRAINAGE AREA.--404 sq mi.

PERIOD OF RECORD.--April 1966 to September 1970 (low flow only).

GAGE.--Water-stage recorder. Datum of gage is 2,401.76 ft above mean sea level (levels by Pacific Gas & Electric Co.).

REMARKS.--Since November 1965, flow regulated by McCloud Reservoir (see station 11367740). Most of McCloud River runoff is diverted from reservoir through tunnel to Iron Canyon Reservoir (see station 11363920) in Pit River basin. This station records fishwater release. See schematic diagram of Pit and McCloud River basins elsewhere in this report.

Discharge measurements, in cubic feet per second, December 1965 to March 1966

Dec. 31, 1965.... 149	Jan. 17, 1966.... 94	Feb. 10, 1966.... 68	Mar. 11, 1966.... 43

COOPERATION.--Records collected by Pacific Gas & Electric Co., under general supervision of the Geological Survey, in connection with a Federal Power Commission project.

DISCHARGE, IN CUBIC FEET PER SECOND, APRIL TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								70	176	194	195	201
2								75	180	197	197	201
3								81	182	197	195	201
4								81	182	195	195	201
5								81	180	195	195	201
6								81	180	197	197	203
7								82	180	199	197	203
8								89	180	199	197	203
9								100	180	199	197	203
10								100	182	197	199	203
11								106	184	197	199	203
12								109	184	195	199	203
13								113	185	199	199	205
14								115	186	199	199	205
15								115	188	199	199	205
16								137	190	199	199	205
17								156	190	199	199	205
18								156	190	199	199	205
19								156	190	199	199	205
20								158	190	199	199	205
21								160	190	199	199	205
22								160	190	199	203	205
23							42	162	190	197	203	205
24							42	162	190	197	203	205
25							44	164	190	197	203	205
26							46	166	190	197	203	205
27							45	166	190	197	203	205
28							56	166	190	197	201	216
29					------		66	166	190	197	201	216
30					------		70	166	190	197	201	205
31		------			------		------	172	------	195	201	------
TOTAL								3,971	5,579	6,122	6,175	6,138
MEAN								128	186	197	199	205
MAX								172	190	199	203	216
MIN								70	176	194	195	201
AC-FT								7,880	11,070	12,140	12,250	12,170

11367760 McCLOUD RIVER BELOW McCLOUD DAM, NEAR McCLOUD, CALIF.--CONTINUED

DISCHARGF, IN CUBIC FFET PER SECOND, WATFR YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	205	195	172	117	143	94	47	68		170	188	190
2	205	195	190	115	139	94	45	78		170	188	190
3	205	195	190	115	100	94	44	78	84	170	188	190
4	199	195	212	115	65	92	44	78	102	168	188	190
5	199	195	214	115	65	92	44	61	98	172	188	190
6	205	195	151	115	64	95	45	57	98	176	188	190
7	199	195	40	115	64	98	45	58	98	162	188	190
8	193	193	38	113	63	98	44	54	98	154	188	190
9	193	190	38	121	63	98	42	52	110	160	188	190
10	195	190	38	128	47	66	44	53	117	170	188	193
11	197	190	38	128	41	40	44	52	118	178	188	193
12	197	190	49	127	41	39	43	51	117	178	188	193
13	197	190	75	127	41	44	42	50	118	178	188	193
14	197	186	78	127	41	85	44	50	123	178	188	193
15	197	164	64	127	40	86	49	51	125	178	188	193
16	197	132	41	125	39	143	47	54	130	176	188	193
17	197	128	40	125	41	102	48	69	134	180	188	193
18	199	150	38	125	42	63	48	94	136	182	190	193
19	199	174	51	123	41	58	47		137	184	190	193
20	199	197	52	125	60	56	46		139	186	190	193
21	199	190	62	125	74	56	54		143	184	190	195
22	197	184	72	123	73	56	62		145	184	190	197
23	197	178	84	123	73	62	61		149	184	190	197
24	197	176	100	123	73	56	61		154	184	190	197
25	197	174	98	123	73	53	61		152	184	190	197
26	197	172	98	125	73	52	61		156	184	190	197
27	197	170	107	127	86	51	62		160	184	190	197
28	195	170	118	132	94	50	62		164	186	190	197
29	195	172	118	154	------	48	61		166	188	190	199
30	195	170	117	150	------	48	61		168	188	190	199
31	195	------	117	149	------	48	------		------	188	190	------
TOTAL	6,135	5,395	2,900	3,882	1,859	2,217	1,508			5,508	5,856	5,805
MFAN	198	180	93.5	125	66.4	71.5	50.3			178	189	194
MAX	205	197	214	154	143	143	62			188	190	199
MIN	193	128	38	113	39	39	42	50	84	154	188	190
AC-FT	12,170	10,700	5,750	7,700	3,690	4,400	2,990			10,930	11,620	11,510

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	199	192	191	153	127	47	43	113	183	196	199	201
2	199	192	191	151	134	46	42	113	182	195	200	204
3	199	192	191	149	134	45	42	117	182	193	201	197
4	199	192	193	137	135	44	42	119	182	193	201	194
5	199	192	193	143	127	44	54	119	183	193	201	194
6	199	192	192	146	122	44	62	119	183	193	202	193
7	197	192	191	145	115	44	76	120	182	193	201	192
8	197	192	191	146	110	61	76	120	182	193	201	191
9	199	192	188	146	102	61	76	123	182	194	202	193
10	199	193	185	150	96	72	76	124	182	194	202	194
11	199	194	187	152	96	81	76	125	182	194	202	193
12	199	194	188	152	90	88	72	125	184	194	199	191
13	199	190	188	151	84	88	70	126	186	194	198	194
14	199	192	188	153	84	89	70	132	186	194	198	194
15	199	191	176	131	90	70	80	137	186	194	197	194
16	199	190	158	94	96	46	87	160	186	195	196	193
17	199	192	158	103	101	46	87	170	186	195	196	193
18	199	192	158	113	102	44	92	170	186	196	196	192
19	197	192	158	123	102	43	104	171	189	196	196	191
20	197	192	158	131	77	52	108	171	191	198	196	193
21	195	192	158	131	58	57	108	172	191	198	196	194
22	195	191	158	128	54	63	111	173	191	198	196	193
23	195	191	158	125	56	67	112	173	191	199	196	192
24	195	191	158	124	56	67	112	173	192	200	194	191
25	195	191	158	124	54	54	112	173	193	201	193	189
26	195	191	158	121	53	43	112	173	194	197	195	189
27	194	190	156	120	53	43	112	173	194	195	196	189
28	194	190	153	120	51	42	112	173	194	196	194	188
29	194	191	153	120	49	43	112	173	194	196	193	187
30	193	191	153	119	------	43	113	173	196	197	195	187
31	193	------	153	119	------	43	------	180	------	198	194	------
TOTAL	6,110	5,749	5,339	4,120	2,608	1,720	2,551	4,583	5,615	6,062	6,126	5,780
MEAN	197	192	172	133	89.9	55.5	85.0	148	187	196	198	193
MAX	199	194	193	153	135	89	113	180	196	201	202	204
MIN	193	190	153	94	49	42	42	113	182	193	193	187
AC-FT	12,120	11,400	10,590	8,170	5,170	3,410	5,060	9,090	11,140	12,020	12,150	11,460

WTR YR 1968 TOTAL 56,363 MEAN 154 MAX 204 MIN 42 AC-FT 111,800

11367760 McCLOUD RIVER BELOW McCLOUD DAM, NEAR McCLOUD, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	187	185	185	132	53	38	46		247	172	189	191
2	187	185	185	132	59	36	44	394	228	172	189	199
3	187	185	185	138	68	36	43	368	196	172	189	199
4	187	185	241	138	60	36	44	344	184	172	189	199
5	187	185	192	138	58	36	58	361	169	172	189	199
6	187	185	192	125	56	36	67		160	172	191	199
7	185	185	192	125	52	36	67		147	172	191	199
8	185	185	192	125	51	36	67		130	172	191	199
9	185	185	192	125	53	36	67		130	172	191	199
10	185	185	130	125	53	36	67		132	174	191	199
11	187	187	58	102	115	36	68		134	174	191	202
12	187	187	75	102	85	75	69		132	176	191	202
13	187	187	115	102	75	108	70		142	176	191	202
14	187	187	129	102	69	108	70		149	176	191	202
15	187	187	138	102	67	106	72		144	179	189	202
16	187	185	90	73	64	104	73		153	179	189	199
17	187	185	55	53	62	104	76		160	179	189	199
18	187	187	70	65	58	72	82		155	189	191	196
19	187	187	99	67	56	47	89		153	194	194	202
20	187	187	116	111	52	46	104		162	194	194	205
21	185	187	116	123	50	45	365		164	189	194	205
22	185	185	116	93	48	46			162	184	191	205
23	185	185	116		46	46			167	184	191	205
24	185	185	116		44	45			167	184	191	205
25	185	185	116	86	42	45			167	186	191	202
26	185	185	127		41	44	365		164	189	191	202
27	185	185	134		39	45	365		164	189	191	202
28	185	185	134	279	39	46		333	164	189	191	205
29	185	185	134	85	------	47		256	162	189	191	205
30	185	185	134	40	------	47		261	169	189	191	207
31	185	------	132	46	------	47	------	258	------	189	191	------
TOTAL	5,767	5,568	4,206		1,615	1,671			4,857	5,599	5,914	6,036
MFAN	186	186	136		57.7	53.9			162	181	191	201
MAX	187	187	241		115	108			247	194	194	207
MIN	185	185	55		39	36			130	172	189	191
AC-FT	11,440	11,040	8,340		3,200	3,310			9,630	11,110	11,730	11,970

CAL YR 1968 TOTAL 54,706 MEAN 149 MAX 241 MIN 42 AC-FT 108,500

DISCHARGF, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	210	204	205	44		88	114	147	179	181	182	184
2	210	203	207	50		68	114	147	179	181	184	182
3	296	203	207	54	377	50	119	147	179	179	184	182
4	364	203	207	51	339	50	124	147	179	179	184	181
5	364	205	209	54	248	50	124	148	181	179	184	181
6	259	279	209	89	172	49	125	148	181	181	184	181
7	202	344	210	109	167	50	125	148	181	181	184	181
8	202	344	204	109	160	53	125	149	181	181	184	181
9	202	344	244	82	154	154	125	149	181	181	184	181
10	202	264	212	48	169	159	127	150	181	181	184	181
11	202	203	126	45	143	157	129	150	182	181	184	181
12	202	202	55	47	144	154	129	150	181	181	184	181
13	202	202	54	64	144	95	131	150	181	181	184	181
14	202	202	52	117	214	58	131	151	181	181	184	181
15	204	200	52		161	204	131	165	181	181	184	181
16	269	200	58		210	165	130	176	182	181	184	181
17	307	204	74		262	160	141	176	182	182	184	182
18	252	207	72		168	152	137	176	182	182	184	182
19	240	207	60		157	148	137	176	182	182	184	181
20	208	205	51		155	94	142	176	182	182	184	181
21	204	205			150	84	147	177	181	182	184	181
22	203	205			145	83	146	177	182	182	184	181
23	202	205	128		141	83	146	177	182	182	184	181
24	202	205	68		134	82	146	175	182	182	184	181
25	202	205	69		127	85	147	177	181	182	184	181
26	201	205	72		123	90	146	177	181	182	184	181
27	202	205	67		97	96	147	177	181	182	182	181
28	204	205	56		84	103	147	177	181	182	184	181
29	203	205	45		------	102	147	177	181	182	184	179
30	203	205	38		------	109	146	177	181	182	182	179
31	205	------	42		------	114	------	177	------	182	182	------
TOTAL	7,030	6,675				3,189	4,025	5,071	5,431	5,620	5,696	5,433
MFAN	227	223				103	134	164	181	181	184	181
MAX	364	344				204	147	177	182	182	184	184
MIN	201	200				49	114	147	179	179	182	179
AC-FT	13,940	13,240				6,330	7,980	10,060	10,770	11,150	11,300	10,780

11367800 McCLOUD RIVER AT AH-DI-NA, NEAR McCLOUD, CALIF.

LOCATION.--Lat 41°06'39", long 122°05'42", in NE¼SW¼ sec.33, T.38 N., R.2 W., Shasta County, Shasta National Forest, on right bank at Ah-Di-Na, 1.8 miles downstream from Squirrel Creek, 3.9 miles downstream from McCloud Dam, and 9.6 miles south of McCloud.

DRAINAGE AREA.--427 sq mi.

PERIOD OF RECORD.--October 1964 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 2,160 ft (from topographic map).

AVERAGE DISCHARGE.--6 years, 1,353 cfs (980,200 acre-ft per year), adjusted for diversion to Iron Canyon Reservoir and change in contents in McCloud Reservoir.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Nov. 23, 1965	3,140	5.40	Jan. 23, 1966	148
1967	May 19, 1967	3,190	5.44	Mar. 12, 1967	148
1968	Feb. 21, 1968	890	3.07	Jan. 31, 1968	141
1969	Jan. 20, 1969	4,210	6.21	Mar. 11, 1969	107
1970	Jan. 23, 1970	17,500	12.94	Jan. 5, 1970	128

Period of record: Maximum discharge prior to construction of McCloud Reservoir, 9,660 cfs Dec. 22, 1964 (gage height, 9.43 ft from floodmarks, in gage well), from rating curve extended above 2,500 cfs; minimum daily, 868 cfs Oct. 1-26, 1964. Maximum discharge since construction of McCloud Dam in 1965, 17,500 cfs Jan. 23, 1970 (gage height, 12.94 ft), from rating curve extended above 2,500 cfs; minimum daily, 107 cfs Mar. 11, 1969.

Flood of Dec. 21, 1955, reached a stage of 12.5 ft (discharge, 16,800 cfs, from rating curve extended above 3,000 cfs).

REMARKS.--Since November 1965, flow regulated by McCloud Reservoir 3.9 miles upstream (see station 11367740). Diversion to Iron Canyon Reservoir (see station 11363920) through McCloud River diversion tunnel (see station 11367720) started Dec. 1, 1965. See schematic diagram of Pit and McCloud River basins elsewhere in this report.

COOPERATION.--Records collected by Pacific Gas & Electric Co., under general supervision of the Geological Survey, in connection with a Federal Power Commission project.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	931	898	1,020	204	158	158	418	163	205	208	199	205
2	931	898	994	203	155	160	427	165	208	211	202	205
3	931	868	555	201	158	163	393	168	211	208	202	208
4	931	844	243	200	202	165	353	168	211	208	202	208
5	931	772	249	200	410	163	334	168	208	205	202	205
6	931	700	263	290	346	174	330	165	205	205	202	205
7	931	820	220	315	230	187	338	160	202	208	202	208
8	931	410	223	319	193	344	327	160	199	208	202	208
9	931	260	214	315	174	690	327	168	199	208	202	208
10	931	630	205	283	158	772	385	165	202	205	199	208
11	924	280	217	252	165	530	357	165	205	205	199	208
12	924	250	214	233	165	389	346	168	202	202	199	208
13	924	230	278	223	158	427	308	165	202	205	199	211
14	924	150	431	202	158	490	276	168	202	208	199	211
15	898	200	346	160	158	494	266	165	205	205	202	211
16	917	217	421	160	158	431	273	184	205	205	202	211
17	917	565	334	163	158	342	273	202	205	202	205	214
18	917	266	168	163	155	294	252	199	205	202	205	217
19	924	319	174	176	163	256	223	199	205	205	205	217
20	924	243	199	182	165	230	202	199	205	205	205	214
21	917	230	185	153	163	208	184	199	208	205	205	211
22	917	773	185	150	168	199	179	196	208	205	205	214
23	910	1,120	185	148	187	190	174	199	208	202	208	214
24	910	1,450	185	150	196	196	174	199	205	202	208	211
25	910	1,350	183	158	179	208	179	199	205	202	208	211
26	910	1,190	183	155	163	230	174	202	205	202	208	211
27	904	1,110	188	155	155	266	165	202	205	202	205	211
28	904	1,080	220	158	155	305	165	199	205	202	205	220
29	904	1,050	214	160	------	346	165	199	208	202	208	220
30	898	1,040	208	163	------	373	168	199	211	202	208	205
31	898	------	206	158	------	393	------	202	------	199	205	------
TOTAL	28,485	20,213	9,110	6,152	5,153	9,773	8,135	5,659	6,159	6,343	6,307	6,318
MEAN	919	674	294	198	184	315	271	183	205	205	203	211
MAX	931	1,450	1,020	319	410	772	427	202	211	211	208	220
MIN	898	150	168	148	155	158	165	160	199	199	199	205
AC-FT	56,500	40,090	18,070	12,200	10,220	19,380	16,140	11,220	12,220	12,580	12,510	12,530
MEAN†	919	1,107	951	1,030	1,092	1,627	1,938	1,497	1,100	1,039	962	928
AC-FT†	56,500	65,890	58,470	63,340	60,670	100,060	115,290	92,030	65,470	63,860	59,130	55,200

CAL YR 1965 TOTAL 430,037 MEAN 1,178 MAX 3,930 MIN 150 AC-FT 853,000 MEAN† 1,270 AC-FT† 919,200
WTR YR 1966 TOTAL 117,807 MEAN 323 MAX 1,450 MIN 148 AC-FT 233,700 MEAN† 1,182 AC-FT† 855,900

† ADJUSTED FOR DIVERSION TO IRON CANYON RESERVOIR AND CHANGE IN CONTENTS IN McCLOUD RESERVOIR.

11367800 McCLOUD RIVER AT AH-DI-NA, NEAR McCLOUD, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	205	214	444	176	580	179	176	168	307	211	208	202
2	205	214	1,110	174	476	176	163	182	333	208	208	211
3	205	214	910	171	369	174	160	190	211	205	208	214
4	205	214	1,670	168	297	171	163	211	223	205	211	214
5	211	214	1,520	168	280	168	174	233	217	208	208	214
6	220	223	710	165	266	168	217	266	214	211	208	214
7	217	214	410	163	252	171	211	327	211	211	205	214
8	211	214	297	160	239	168	199	431	208	208	205	214
9	211	211	256	165	230	171	211	508	217	208	205	214
10	214	211	230	171	211	217	276	494	220	208	205	214
11	214	214	208	168	202	168	276	393	217	208	202	214
12	214	220	217	168	202	148	236	327	211	208	202	211
13	214	249	280	165	211	150	217	297	205	208	202	211
14	214	276	305	165	205	179	217	297	205	210	202	211
15	214	369	266	165	196	179	211	338	205	210	202	211
16	214	382	214	165	182	1,090	202	414	205	208	205	211
17	217	208	190	165	174	816	208	476	208	205	205	211
18	214	193	176	163	168	575	193	530	205	205	208	211
19	217	328	170	163	160	554	184	822	208	208	205	211
20	217	832	172	171	168	431	176	1,230	205	214	205	211
21	214	690	174	199	176	393	174	1,330	205	211	205	211
22	214	472	176	184	174	365	182	1,210	202	208	205	211
23	214	357	184	176	171	449	179	1,440	205	208	205	211
24	214	305	196	176	168	418	176	1,250	205	208	202	211
25	214	276	187	171	165	342	179	918	202	205	202	211
26	214	263	179	174	163	290	184	836	205	208	202	211
27	214	246	187	193	168	256	190	791	205	202	202	208
28	214	266	193	327	179	243	182	841	208	205	199	208
29	214	330	190	892	------	217	174	720	208	208	199	208
30	214	338	184	760	------	211	165	540	208	208	199	211
31	214	------	182	720	------	193	------	435	------	205	199	------
TOTAL	6,607	8,957	11,787	7,311	6,432	9,430	5,855	18,445	6,488	6,443	6,328	6,339
MEAN	213	299	380	236	230	304	195	595	216	208	204	211
MAX	220	832	1,670	892	580	1,090	276	1,440	333	214	211	214
MIN	205	193	170	160	160	148	160	168	202	202	199	202
AC-FT	13,100	17,770	23,380	14,500	12,760	18,700	11,610	36,590	12,870	12,780	12,550	12,570
MEAN†	903	1,231	1,766	1,230	1,464	1,829	1,691	2,470	1,986	1,406	1,223	1,171
AC-FT†	55,540	73,250	108,600	75,640	81,290	112,500	100,600	151,800	118,200	86,460	75,170	69,660

CAL YR 1966 TOTAL 87,350 MEAN 239 MAX 1,670 MIN 148 AC-FT 173,300 MEAN† 1,260 AC-FT† 912,400
WTR YR 1967 TOTAL 100,422 MEAN 275 MAX 1,670 MIN 148 AC-FT 199,200 MEAN† 1,531 AC-FT† 1,109,000

† ADJUSTED FOR DIVERSION TO IRON CANYON RESERVOIR AND CHANGE IN CONTENTS IN McCLOUD RESERVOIR.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	211	202	220	162	146	224	205	163	207	206	205	207
2	223	201	223	160	157	204	187	161	205	204	205	211
3	214	201	228	157	162	190	171	164	205	202	206	213
4	211	201	272	144	165	183	159	165	205	201	206	213
5	208	202	250	149	158	187	164	163	213	202	207	212
6	208	201	217	151	156	178	167	162	207	201	208	211
7	208	202	208	152	161	165	159	160	204	201	206	211
8	205	204	203	152	160	159	162	159	203	201	206	210
9	205	202	203	155	160	156	167	161	202	202	208	212
10	205	205	205	153	160	159	172	162	201	202	207	212
11	205	206	206	153	165	161	176	162	200	202	206	211
12	205	210	206	152	161	175	170	160	201	202	204	210
13	202	211	205	155	151	178	157	168	204	202	202	212
14	202	223	204	183	145	207	151	168	203	202	204	214
15	202	214	191	228	147	228	158	172	202	202	203	211
16	202	211	165	173	162	241	162	189	201	202	201	211
17	202	210	166	153	328	230	155	201	201	202	202	211
18	202	212	166	150	336	191	162	200	200	202	202	210
19	202	214	165	151	330	167	166	203	203	202	205	208
20	201	215	165	157	412	161	169	239	205	203	210	210
21	203	220	165	158	738	161	166	219	204	204	206	211
22	203	219	163	161	609	164	166	215	204	205	203	211
23	204	219	162	163	632	175	167	212	204	205	202	209
24	204	219	162	162	512	182	165	209	204	205	200	208
25	204	218	165	161	387	211	164	210	204	207	200	206
26	203	217	166	156	317	206	164	207	205	203	201	205
27	204	218	169	149	287	192	164	205	205	200	202	205
28	201	218	168	147	264	181	164	203	205	201	201	204
29	200	224	168	145	243	188	164	201	205	202	199	203
30	201	223	166	144	------	201	164	200	205	202	201	203
31	200	------	163	141	------	207	------	204	------	203	200	------
TOTAL	6,350	6,342	5,885	4,877	7,911	5,812	4,987	5,767	6,117	6,280	6,318	6,285
MEAN	205	211	190	157	273	187	166	186	204	203	204	210
MAX	223	224	272	228	738	241	205	239	213	207	210	214
MIN	200	201	162	141	145	156	151	159	200	200	199	203
AC-FT	12,600	12,580	11,670	9,670	15,690	11,530	9,890	11,440	12,130	12,460	12,530	12,470
MEAN†	1,013	1,002	974	996	1,487	1,498	1,406	1,302	1,057	957	938	892
AC-FT†	62,270	59,600	59,890	61,260	85,510	92,090	83,670	80,030	62,900	58,830	57,660	53,080

CAL YR 1967 TOTAL 91,648 MEAN 251 MAX 1,440 MIN 148 AC-FT 181,800 MEAN† 1,455 AC-FT† 1,053,000
WTR YR 1968 TOTAL 72,931 MEAN 199 MAX 738 MIN 141 AC-FT 144,700 MEAN† 1,125 AC-FT 816,800

† ADJUSTED FOR DIVERSION TO IRON CANYON RESERVOIR AND CHANGE IN CONTENTS IN McCLOUD RESERVOIR.

11367800 McCLOUD RIVER AT AH-DI-NA, NEAR McCLOUD, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	202	200	202	159	295	140	445	686	329	199	206	201
2	202	209	200	159	248	133	419	586	304	198	205	204
3	202	206	200	162	362	129	382	590	270	197	205	207
4	202	205	280	167	282	125	333	538	253	197	205	210
5	202	203	205	174	240	124	510	543	237	196	204	210
6	202	202	205	177	229	124	484	702	224	196	204	207
7	202	202	206	182	218	117	395	835	208	196	204	207
8	201	200	209	187	214	114	343	969	191	196	204	207
9	200	200	216	185	295	113	317	1,090	188	197	198	207
10	200	200	618	181	388	110	301	1,260	188	197	198	207
11	235	215	358	174	889	107	308	1,370	189	197	198	207
12	255	226	205	172	808	135	341	1,550	184	198	198	210
13	223	211	203	453	533	169	351	1,430	189	198	198	213
14	218	207	207	400	410	168	327	1,420	195	198	198	210
15	213	205	388	292	362	171	298	1,270	189	199	198	207
16	209	205	289	219	322	177	292	1,060	195	199	195	204
17	206	205	172	160	286	195	310	1,080	199	199	195	204
18	205	214	156	157	259	225	341	975	196	207	198	201
19	203	214	165	192	254	201	344	915	192	213	201	207
20	203	211	175	2,220	218	190	369	776	199	212	201	210
21	202	207	165	2,350	201	179	635	693	202	206	201	207
22	202	205	162	942	189	182	900	648	198	201	198	207
23	200	203	160	1,340	183	197	1,270	717	200	201	198	207
24	200	208	159	864	174	205	876	706	201	200	201	210
25	200	205	159	425	161	208	693	684	199	202	201	207
26	200	204	162	2,100	150	219	571	644	197	204	201	204
27	200	202	171	1,460	142	254	553	561	196	204	201	204
28	199	202	168	964	148	316	644	454	194	204	201	207
29	205	202	164	565	------	368	665	351	193	205	201	207
30	203	202	162	438	------	398	676	351	197	206	201	210
31	200	------	159	352	------	444	------	343	------	206	201	------
TOTAL	6,396	6,180	6,650	17,972	8,460	5,937	14,693	25,797	6,296	6,228	6,218	6,210
MEAN	206	206	215	580	302	192	490	832	210	201	201	207
MAX	255	226	618	2,350	889	444	1,270	1,550	329	213	206	213
MIN	199	200	156	157	142	107	292	343	184	196	195	201
AC-FT	12,690	12,260	13,190	35,650	16,780	11,780	29,140	51,170	12,490	12,350	12,330	12,320
MEAN†	900	909	1,118	1,820	1,645	1,338	2,239	2,441	1,544	1,192	1,096	1,032
AC-FT†	55,360	54,100	68,750	112,000	91,350	82,280	133,200	150,100	91,890	73,270	67,420	61,420

CAL YR 1968 TOTAL 73,580 MEAN 201 MAX 738 MIN 141 AC-FT 145,900 MEAN† 1,123 AC-FT† 813,200
WTR YR 1969 TOTAL 117,037 MEAN 321 MAX 2,350 MIN 107 AC-FT 232,100 MEAN† 1,438 AC-FT† 1,041,000

† ADJUSTED FOR DIVERSION TO IRON CANYON RESERVOIR AND CHANGE IN CONTENTS IN McCLOUD RESERVOIR.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	210	204	207	156	957	370	181	178	206	204	201	210
2	212	204	207	147	744	298	178	178	207	203	201	216
3	205	204	207	143	641	245	179	178	207	202	201	216
4	198	209	209	134	556	229	184	178	207	202	201	213
5	198	226	210	128	427	209	182	178	207	201	201	213
6	202	211	210	147	348	197	181	179	207	202	201	213
7	202	215	210	156	329	209	179	179	207	203	201	213
8	204	209	208	156	310	246	178	181	210	202	198	213
9	204	192	247	238	295	358	176	179	212	202	198	213
10	204	199	210	357	278	343	177	179	210	202	198	213
11	203	210	333	353	264	332	176	181	210	202	198	213
12	203	208	545	409	285	322	176	181	208	202	198	213
13	204	207	363	1,050	310	254	179	181	208	202	198	213
14	206	206	246	1,870	384	241	176	180	210	202	198	213
15	213	204	190	2,150	321	438	174	196	209	203	198	216
16	211	202	155	2,810	401	350	173	209	210	204	198	216
17	203	205	157	2,840	531	328	185	209	209	204	198	216
18	201	210	150	2,170	397	306	178	208	208	204	201	213
19	200	210	320	1,750	356	289	176	209	207	204	198	213
20	200	210	605	2,050	329	229	180	209	207	203	198	213
21	204	208	5,250	3,110	310	198	185	207	206	202	198	213
22	204	207	3,470	5,270	292	189	184	208	207	203	198	213
23	204	207	541	11,600	278	183	182	207	207	202	198	213
24	202	207	358	9,540	264	178	181	207	207	202	201	213
25	201	207	366	4,870	251	174	181	207	206	201	201	213
26	201	207	343	3,790	241	176	181	207	205	201	201	213
27	202	207	283	4,010	205	178	180	207	206	201	201	213
28	204	207	239	2,620	275	183	181	207	207	201	201	210
29	204	207	206	1,930	------	179	179	207	205	201	201	210
30	203	207	177	1,470	------	181	178	206	204	201	201	210
31	204	------	164	1,120	------	183	------	205	------	201	201	------
TOTAL	6,316	6,216	16,586	68,544	10,579	7,795	5,380	6,025	6,226	6,269	6,186	6,393
MEAN	204	207	535	2,211	378	251	179	194	208	202	200	213
MAX	213	226	5,250	11,600	957	438	185	209	212	204	201	216
MIN	198	192	150	128	205	174	173	178	204	201	198	210
AC-FT	12,530	12,330	32,900	136,000	20,980	15,460	10,670	11,950	12,350	12,430	12,270	12,680
MEAN†	1,007	979	1,790	3,716	1,919	1,818	1,389	1,290	1,174	1,083	1,030	1,003
AC-FT†	61,900	58,240	110,100	228,500	106,600	111,800	82,640	79,330	69,830	66,610	63,320	59,710

CAL YR 1969 TOTAL 126,929 MEAN 348 MAX 5,250 MIN 107 AC-FT 251,800 MEAN† 1,510 AC-FT† 1,093,000
WTR YR 1970 TOTAL 152,515 MEAN 418 MAX 11,600 MIN 128 AC-FT 302,500 MEAN† 1,517 AC-FT† 1,098,000

† ADJUSTED FOR DIVERSION TO IRON CANYON RESERVOIR AND CHANGE IN CONTENTS IN McCLOUD RESERVOIR.

11368000 McCLOUD RIVER ABOVE SHASTA LAKE, CALIF.

LOCATION.--Lat 40°57'30", long 122°13'07", in NW¼ sec.28, T.36 N., R.3 W., Shasta County, on right bank just upstream from Shasta Lake, 0.2 mile downstream from Big Bollibokka Creek and 11.3 miles east of Lamoine.

DRAINAGE AREA.--604 sq mi.

PERIOD OF RECORD.--October 1945 to September 1970. Published as "above Shasta Reservoir" prior to 1950.

GAGE.--Water-stage recorder. Datum of gage is 1,100.00 ft above mean sea level (levels by Bureau of Reclamation).

AVERAGE DISCHARGE.--20 years (1945-65), prior to regulation by McCloud Reservoir and diversion to Pit River basin, 1,699 cfs (1,230,000 acre-ft per year); 5 years (1965-70), 854 cfs (618,700 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Mar. 10, 1966	4,960	15.03	Sept.30, 1966	273
1967	Dec. 5, 1966	14,100	19.94	Oct. 1, 3, 4, 1966	273
1968	Feb. 21, 1968	4,790	14.91	July 28, Sept.19-21, 27-30, 1968	261
1969	Jan. 21, 1969	20,700	22.30	Oct. 7, 8, 1968	255
1970	Jan. 23, 1970	39,200	a27.05	Aug. 26-28, 1970	278

a In gage well, 28.0 ft, from floodmarks.

Period of record: Maximum discharge, 45,200 cfs Dec. 22, 1955 (gage height, 28.20 ft), from rating curve extended above 15,000 cfs on basis of slope-area measurement of peak flow; minimum daily, 255 cfs Oct. 7, 8, 1968.

REMARKS.--Since Nov. 3, 1965, flow partly regulated by McCloud Reservoir (see station 11367740). Diversions to Iron Canyon Reservoir (see station 11363920) began Dec. 1, 1965. See schematic diagram of Pit and McCloud River basins elsewhere in this report. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

COOPERATION.--Records collected by Pacific Gas & Electric Co., under general supervision of the Geological Survey, in connection with a Federal Power Commission project.

REVISIONS (WATER YEARS).--WSP 1445: 1953(M). WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,020	996	1,400	649	661	901	1,550	532	402	330	301	285
2	1,020	996	1,350	608	631	849	1,540	520	397	321	297	281
3	1,020	961	988	715	649	790	1,440	520	397	317	285	281
4	1,020	888	532	691	1,870	758	1,330	520	388	313	289	281
5	1,020	790	537	2,190	3,730	739	1,260	515	384	301	289	281
6	1,020	637	542	3,740	2,870	797	1,220	505	379	301	289	277
7	1,010	914	532	2,720	1,920	768	1,200	490	388	305	285	277
8	1,010	698	537	2,220	1,420	1,950	1,160	485	384	313	285	277
9	1,010	348	526	1,990	1,160	3,990	1,150	485	379	317	281	277
10	1,020	476	495	1,550	1,000	4,500	1,240	480	370	317	281	277
11	1,010	508	500	1,240	894	3,210	1,200	465	370	313	281	277
12	1,010	397	490	1,050	823	2,430	1,170	460	366	305	281	281
13	1,010	510	470	927	758	2,510	1,060	450	361	305	281	297
14	1,020	1,090	682	856	715	2,610	968	450	356	305	281	293
15	982	1,040	578	790	685	2,560	934	435	356	305	281	293
16	1,000	649	680	836	649	2,300	934	435	361	301	281	289
17	1,000	1,250	557	830	637	1,920	920	460	356	301	281	285
18	1,010	2,070	361	790	625	1,660	868	445	356	301	281	297
19	1,000	1,920	343	739	703	1,490	804	435	352	297	281	297
20	1,000	1,250	392	697	745	1,320	745	435	352	297	277	293
21	1,000	901	361	655	758	1,210	703	430	352	293	277	289
22	996	1,120	361	637	790	1,130	667	425	348	285	277	289
23	996	1,650	343	603	1,010	1,070	649	420	348	285	277	289
24	996	2,940	374	570	1,180	1,050	637	410	348	285	277	289
25	996	2,660	361	559	1,170	1,060	631	410	343	289	277	289
26	1,000	2,140	352	542	1,090	1,110	614	410	338	289	277	285
27	1,010	1,860	361	526	989	1,200	586	406	334	285	277	281
28	1,000	1,660	1,210	515	934	1,290	570	406	334	285	277	285
29	1,000	1,540	1,240	564	------	1,400	554	402	334	285	281	301
30	1,000	1,460	975	631	------	1,450	542	402	334	289	285	273
31	996	------	778	649	------	1,490	------	406	------	301	285	------
TOTAL	31,202	36,319	19,208	32,279	31,066	51,512	28,846	14,049	10,867	9,336	8,755	8,566
MEAN	1,007	1,211	620	1,041	1,110	1,662	962	453	362	301	282	286
MAX	1,020	2,940	1,400	3,740	3,730	4,500	1,550	532	402	330	301	301
MIN	982	348	343	515	625	739	542	402	334	285	277	273
AC-FT	61,890	72,040	38,100	64,030	61,620	102,200	57,220	27,870	21,550	18,520	17,370	16,990

CAL YR 1965 TOTAL 596,279 MEAN 1,634 MAX 10,700 MIN 343 AC-FT 1,183,000
WTR YR 1966 TOTAL 282,005 MEAN 773 MAX 4,500 MIN 273 AC-FT 559,400

11368000 McCLOUD RIVER ABOVE SHASTA LAKE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	273	281	1,360	520	3,410	637	1,100	1,040	932	480	352	317
2	277	281	5,000	505	2,570	631	1,070	1,020	864	475	348	321
3	273	281	4,770	500	2,080	608	1,100	1,030	661	475	343	321
4	273	281	8,280	495	1,780	586	1,120	1,080	661	470	338	317
5	277	281	9,110	485	1,660	570	1,350	1,140	655	465	338	321
6	281	343	4,020	470	1,580	554	2,140	1,200	649	465	338	321
7	277	321	2,470	455	1,480	548	2,090	1,320	620	455	338	317
8	277	301	1,780	450	1,360	537	1,750	1,580	614	445	338	317
9	277	293	1,470	445	1,260	537	1,680	1,800	643	440	338	317
10	277	293	1,410	450	1,200	1,080	2,140	1,850	603	435	334	321
11	281	305	1,310	435	1,150	1,130	2,340	1,550	581	430	330	317
12	281	370	1,270	430	1,130	975	1,960	1,350	570	420	325	313
13	281	515	1,400	425	1,120	882	1,730	1,210	559	420	325	309
14	281	803	1,520	420	1,070	888	1,580	1,160	542	415	321	309
15	285	2,390	1,380	415	996	931	1,470	1,200	537	410	321	309
16	285	2,140	1,180	410	927	8,370	1,340	1,320	526	406	321	309
17	285	836	1,040	402	862	5,980	1,540	1,400	526	406	321	309
18	285	581	934	402	836	3,540	1,560	1,470	515	397	321	325
19	289	1,280	862	402	790	2,790	1,470	1,660	520	392	325	317
20	293	4,800	810	500	745	2,870	1,380	2,160	520	392	321	313
21	289	4,140	758	882	739	2,760	1,330	2,210	510	388	321	305
22	289	2,750	733	771	709	2,450	1,330	2,230	505	388	321	309
23	289	1,570	703	637	691	3,010	1,320	2,130	495	384	317	305
24	293	1,140	679	625	691	2,610	1,290	2,150	500	370	317	305
25	293	914	655	576	709	2,150	1,290	1,800	490	366	325	305
26	289	790	625	620	655	1,810	1,320	1,520	490	361	330	301
27	289	709	603	771	637	1,560	1,360	1,450	490	356	330	301
28	289	758	598	2,220	643	1,440	1,280	1,430	480	361	325	297
29	289	968	576	6,430	------	1,300	1,200	1,290	480	366	321	297
30	285	968	559	4,700	------	1,250	1,110	1,200	480	361	317	297
31	285	------	537	4,990	------	1,200	------	1,100	------	352	317	------
TOTAL	8,787	31,683	58,402	32,238	33,480	56,184	44,740	46,050	17,218	12,746	10,177	9,342
MEAN	283	1,056	1,884	1,040	1,196	1,812	1,491	1,485	574	411	328	311
MAX	293	4,800	9,110	6,430	3,410	8,370	2,340	2,230	932	480	352	325
MIN	273	281	537	402	637	537	1,070	1,020	480	352	317	297
AC-FT	17,430	62,840	115,800	63,940	66,410	111,400	88,740	91,340	34,150	25,280	20,190	18,530

CAL YR 1966 TOTAL 294,148 MEAN 806 MAX 9,110 MIN 273 AC-FT 583,400
WTR YR 1967 TOTAL 361,047 MEAN 989 MAX 9,110 MIN 273 AC-FT 716,100

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	301	297	330	313	402	1,070	727	370	356	297	281	273
2	388	293	352	301	470	954	673	361	356	293	281	277
3	374	293	406	297	620	875	625	361	352	289	273	277
4	325	293	730	273	637	816	592	356	352	281	269	273
5	321	297	744	281	643	816	570	356	430	281	265	277
6	321	297	435	273	709	764	559	348	392	277	265	277
7	313	293	406	273	856	745	537	343	361	273	265	273
8	317	305	366	273	842	679	515	338	348	273	269	273
9	317	309	343	305	862	637	515	334	338	269	269	269
10	317	301	338	317	875	608	510	334	334	269	265	273
11	309	297	338	289	868	581	510	338	334	269	265	273
12	313	301	334	281	842	655	505	334	330	273	265	273
13	313	305	325	305	778	739	475	379	325	269	265	269
14	309	370	317	573	703	1,360	455	356	321	273	269	273
15	309	317	313	1,240	655	1,670	450	348	321	273	273	273
16	309	305	277	1,080	727	2,020	450	352	321	269	273	269
17	309	301	281	797	2,030	1,960	435	361	317	269	273	269
18	309	301	297	598	2,110	1,460	425	361	313	265	273	269
19	309	309	281	490	1,930	1,160	425	374	313	269	297	261
20	305	297	281	455	2,590	1,000	430	559	313	269	330	261
21	309	301	273	450	4,190	914	420	440	313	269	305	261
22	317	301	277	505	3,850	849	406	420	309	269	285	265
23	313	301	281	532	4,030	830	406	420	305	269	273	265
24	305	301	281	510	3,180	804	402	402	305	273	273	265
25	305	297	297	500	2,340	894	392	406	301	273	269	265
26	305	297	321	475	1,840	862	392	388	301	269	269	265
27	305	305	370	435	1,540	804	388	379	297	265	273	261
28	301	305	398	415	1,350	752	384	374	297	261	273	261
29	301	356	379	450	1,200	739	379	366	297	269	269	261
30	297	356	348	430	------	739	374	361	297	269	269	261
31	297	------	325	397	------	727	------	356	------	269	269	------
TOTAL	9,743	9,201	11,034	14,113	43,669	29,483	14,326	11,575	9,849	8,455	8,512	8,062
MEAN	314	307	356	455	1,506	951	478	373	328	273	275	269
MAX	388	370	744	1,240	4,190	2,020	727	559	430	297	330	277
MIN	297	293	273	273	402	581	374	334	297	261	265	261
AC-FT	19,330	18,250	21,890	27,990	86,620	58,480	28,420	22,960	19,540	16,770	16,880	15,990

CAL YR 1967 TOTAL 292,153 MEAN 800 MAX 8,370 MIN 273 AC-FT 579,500
WTR YR 1968 TOTAL 178,022 MEAN 486 MAX 4,190 MIN 261 AC-FT 353,100

11368000 McCLOUD RIVER ABOVE SHASTA LAKE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	262	282	328	432	1,190	1,090	2,080	1,480	650	376	311	286
2	258	341	319	432	1,060	1,030	1,960	1,400	621	372	307	286
3	258	332	315	462	959	946	1,880	1,330	576	367	307	286
4	258	324	372	570	906	873	1,650	1,200	549	363	303	286
5	258	311	319	739	892	847	2,780	1,230	538	363	303	286
6	258	299	315	859	919	834	2,610	1,340	517	358	303	290
7	255	294	315	886	847	821	2,150	1,550	497	358	303	294
8	255	290	358	840	899	789	1,880	1,640	487	354	303	290
9	258	290	372	758	2,310	764	1,720	1,860	477	358	299	286
10	258	282	2,460	685	2,640	721	1,600	1,960	477	354	294	286
11	442	337	1,720	697	5,790	679	1,570	2,080	477	350	294	286
12	615	432	814	1,040	5,880	673	1,650	2,070	462	376	294	290
13	386	345	626	4,020	3,410	709	1,630	2,110	447	381	294	294
14	345	332	626	2,870	2,480	709	1,510	2,220	452	376	294	290
15	328	332	2,570	1,810	2,310	721	1,400	1,840	442	367	290	286
16	307	332	1,820	1,290	2,260	789	1,350	1,620	437	354	290	286
17	294	341	987	994	2,030	966	1,370	1,500	442	341	290	286
18	286	386	733	886	1,810	1,280	1,420	1,580	442	332	290	290
19	282	376	615	1,280	1,630	1,280	1,370	1,430	447	337	294	294
20	282	354	554	11,900	1,460	1,200	1,370	1,190	428	332	294	299
21	282	341	492	13,100	1,310	1,110	1,530	1,100	428	328	294	299
22	282	328	467	5,240	1,190	1,150	1,970	1,140	413	319	290	294
23	278	319	467	3,780	1,160	1,270	2,500	1,070	413	315	290	294
24	274	345	477	2,830	1,110	1,290	2,180	1,090	409	319	286	294
25	270	337	587	2,000	1,080	1,280	1,820	1,080	399	315	286	290
26	274	324	576	5,930	1,020	1,320	1,590	1,050	395	315	286	286
27	274	315	543	4,090	959	1,490	1,520	1,000	390	315	286	286
28	274	311	549	2,700	1,070	1,730	1,540	814	386	311	286	286
29	311	315	512	1,980	------	1,900	1,640	703	376	315	290	290
30	307	332	472	1,600	------	1,960	1,570	691	376	311	286	290
31	286	------	442	1,350	------	2,110	------	673	------	311	286	------
TOTAL	9,257	9,879	22,122	78,050	50,581	34,331	52,810	43,041	13,850	10,643	9,123	8,686
MEAN	299	329	714	2,518	1,806	1,107	1,760	1,388	462	343	294	290
MAX	615	432	2,570	13,100	5,880	2,110	2,780	2,220	650	381	311	299
MIN	255	282	315	432	847	673	1,350	673	376	311	286	286
AC-FT	18,360	19,590	43,880	154,800	100,300	68,100	104,700	85,370	27,470	21,110	18,100	17,230

CAL YR 1968 TOTAL 189,302 MEAN 517 MAX 4,190 MIN 255 AC-FT 375,500
WTR YR 1969 TOTAL 342,373 MEAN 938 MAX 13,100 MIN 255 AC-FT 679,100

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	294	294	299	680	2,590	2,030	581	399	358	332	290	290
2	298	294	299	619	2,160	1,580	565	395	358	328	294	290
3	298	290	303	584	1,910	1,340	554	390	358	319	290	294
4	286	307	303	546	1,740	1,280	549	386	358	315	294	294
5	286	428	303	509	1,490	1,160	538	381	358	315	290	298
6	290	390	303	500	1,310	1,080	522	381	358	311	294	298
7	290	409	303	510	1,220	1,130	512	381	358	311	290	294
8	298	452	319	554	1,140	1,260	507	390	376	311	290	294
9	303	341	345	1,310	1,080	1,370	497	390	390	307	290	290
10	298	319	399	2,650	1,010	1,330	487	381	372	307	286	294
11	294	324	1,370	2,320	966	1,310	482	390	363	307	286	294
12	294	315	3,140	2,310	1,160	1,280	467	390	358	307	286	290
13	294	311	2,030	4,740	1,310	1,210	482	381	358	307	286	286
14	315	311	1,310	9,290	1,370	1,230	477	372	363	303	286	286
15	345	307	1,010	6,080	1,240	1,300	467	372	354	303	286	286
16	390	307	739	6,810	1,560	1,230	462	390	354	303	286	286
17	341	303	638	7,140	2,230	1,150	467	386	354	303	286	290
18	311	311	621	5,530	1,820	1,070	452	386	345	303	282	290
19	307	307	1,920	4,550	1,530	1,000	447	386	345	299	282	290
20	303	307	3,430	4,990	1,350	919	437	390	341	303	282	294
21	303	307	14,100	8,160	1,220	840	447	381	341	303	282	290
22	298	303	6,460	13,800	1,120	783	437	376	341	299	282	294
23	298	303	2,740	28,900	1,040	745	437	376	341	299	282	294
24	298	303	2,160	24,500	980	715	428	372	341	299	282	290
25	298	303	1,980	11,400	919	685	432	367	337	294	282	290
26	294	303	1,730	8,770	866	667	428	367	332	294	278	290
27	294	303	1,400	11,000	821	644	423	372	337	294	278	290
28	294	299	1,150	6,770	1,240	632	418	367	345	290	278	290
29	294	299	968	4,890	------	615	413	367	341	294	282	290
30	294	299	837	3,860	------	609	409	367	332	290	286	286
31	294	------	744	3,060	------	592	------	363	------	294	286	------
TOTAL	9,394	9,649	53,653	187,332	38,392	32,786	14,224	11,792	10,567	9,444	8,854	8,732
MEAN	303	322	1,731	6,043	1,371	1,058	474	380	352	305	286	291
MAX	390	452	14,100	28,900	2,590	2,030	581	399	390	332	294	298
MIN	286	290	299	500	821	592	409	363	332	290	278	286
AC-FT	18,630	19,140	106,400	371,600	76,150	65,030	28,210	23,390	20,960	18,730	17,560	17,320

CAL YR 1969 TOTAL 373,811 MEAN 1,024 MAX 14,100 MIN 286 AC-FT 741,500
WTR YR 1970 TOTAL 394,819 MEAN 1,082 MAX 28,900 MIN 278 AC-FT 783,100

11370000 SHASTA LAKE NEAR REDDING, CALIF.

LOCATION.--Lat 40°43'08", long 122°25'12", in NW¼ sec.15, T.33 N., R.5 W., Shasta County, in Shasta Dam on Sacramento River near right bank, 2 miles downstream from Squaw Creek and 9.5 miles north of Redding.

DRAINAGE AREA.--6,421 sq mi, excluding Goose Lake basin.

PERIOD OF RECORD.--November 1942 to September 1970. Prior to 1950, published as Shasta Reservoir near Redding.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Bureau of Reclamation). Prior to July 10, 1944, nonrecording gages at various sites near dam at present datum.

EXTREMES.--Maximums and minimums (contents in acre-feet, elevation in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum		
Wtr yr	Date	Contents	Elevation	Date	Contents	Elevation
1966	May 11, 1966	4,494,200	1,065.05	Jan. 28, 1966	3,154,500	1,014.43
1967	May 19, 1967	4,550,300	1,066.94	Nov. 10, 1966	3,130,600	1,013.41
1968	May 30, 31, June 1,1968	3,908,700	1,044.35	Sept.30, 1968	2,669,800	992.56
1969	May 15, 1969	4,517,900	1,065.85	Dec. 9, 1968	2,450,500	981.76
1970	Jan. 27, 1970	4,311,000	1,058.77	Jan. 8, 1970	3,153,000	1,014.37

Period of record: Maximum contents, 4,550,300 acre-ft May 19, 1967 (elevation, 1,066.94 ft); minimum since reservoir first filled, 2,144,900 acre-ft Nov. 22, 1961 (elevation, 965.54 ft).

REMARKS.--Reservoir is formed by a concrete gravity-type dam completed in 1949; regulation began Dec. 30, 1943. Usable capacity, 4,436,400 acre-ft between elevations 737.75 (bottom of lowest set of river outlets) and 1,067.0 ft (top of flashboard gates on drum-type spillway gates) above mean sea level. Dead storage, 115,700 acre-ft. Installation of flashboard gates on top of drum gates completed Nov. 12, 1964. Gates increased elevation to 1,067.0 ft, total capacity, 4,552,000 acre-ft. All water passes down Sacramento River, most of which is through powerplant at dam. Records, including extremes, represent total contents. See schematic diagram of Pit and McCloud River basins elsewhere in this report.

COOPERATION.--Records furnished by Bureau of Reclamation, rounded to Geological Survey standards.

REVISIONS.--WSP 1931: Drainage area.

Capacity table, water years 1966-70 (elevation, in feet, and contents, in acre-feet)

980	2,416,000	1,010	3,052,000	1,050	4,063,000
990	2,617,000	1,020	3,287,000	1,067	4,552,000
1,000	2,829,000	1,030	3,533,000		

CONTENTS, IN THOUSANDS OF ACPE-FEET, AT 2400, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,607	3,414	3,510	3,187	3,158	3,496	4,112	4,457	4,467	4,220	3,775	3,393
2	3,601	3,406	3,497	3,179	3,158	3,507	4,133	4,463	4,460	4,203	3,758	3,391
3	3,595	3,399	3,485	3,184	3,162	3,516	4,152	4,468	4,459	4,188	3,742	3,388
4	3,588	3,394	3,478	3,247	3,190	3,526	4,171	4,472	4,454	4,170	3,732	3,383
5	3,581	3,388	3,464	3,305	3,230	3,534	4,189	4,477	4,448	4,157	3,718	3,373
6	3,577	3,393	3,449	3,354	3,269	3,541	4,206	4,481	4,444	4,143	3,711	3,366
7	3,572	3,381	3,437	3,378	3,291	3,558	4,225	4,484	4,439	4,131	3,692	3,359
8	3,566	3,376	3,425	3,391	3,305	3,584	4,244	4,486	4,435	4,119	3,676	3,350
9	3,559	3,369	3,412	3,394	3,316	3,629	4,263	4,492	4,434	4,106	3,661	3,346
10	3,552	3,364	3,405	3,392	3,327	3,684	4,288	4,492	4,433	4,091	3,648	3,341
11	3,546	3,356	3,396	3,385	3,335	3,722	4,313	4,494	4,428	4,079	3,636	3,331
12	3,539	3,355	3,383	3,376	3,337	3,755	4,337	4,493	4,416	4,067	3,626	3,323
13	3,533	3,368	3,366	3,365	3,339	3,792	4,358	4,494	4,412	4,052	3,609	3,318
14	3,526	3,392	3,347	3,350	3,347	3,827	4,375	4,490	4,408	4,040	3,591	3,314
15	3,518	3,412	3,330	3,336	3,350	3,861	4,389	4,489	4,400	4,028	3,578	3,312
16	3,512	3,416	3,315	3,318	3,354	3,890	4,403	4,490	4,388	4,012	3,564	3,310
17	3,506	3,432	3,303	3,307	3,357	3,914	4,414	4,487	4,381	3,992	3,552	3,308
18	3,499	3,466	3,290	3,296	3,366	3,930	4,422	4,490	4,364	3,976	3,541	3,298
19	3,493	3,486	3,273	3,283	3,376	3,943	4,429	4,490	4,349	3,962	3,529	3,293
20	3,486	3,491	3,260	3,271	3,380	3,954	4,436	4,489	4,339	3,945	3,512	3,287
21	3,480	3,491	3,247	3,257	3,391	3,963	4,439	4,484	4,331	3,933	3,497	3,283
22	3,477	3,486	3,235	3,242	3,400	3,972	4,439	4,484	4,322	3,916	3,485	3,279
23	3,473	3,481	3,223	3,225	3,410	3,981	4,440	4,487	4,312	3,897	3,477	3,277
24	3,464	3,490	3,215	3,210	3,427	3,986	4,442	4,485	4,302	3,878	3,465	3,274
25	3,458	3,498	3,206	3,194	3,443	3,997	4,446	4,483	4,292	3,864	3,453	3,267
26	3,452	3,501	3,195	3,178	3,459	4,008	4,451	4,479	4,275	3,853	3,443	3,267
27	3,447	3,501	3,188	3,162	3,472	4,017	4,455	4,479	4,263	3,843	3,433	3,267
28	3,442	3,497	3,191	3,155	3,484	4,033	4,457	4,481	4,255	3,827	3,420	3,265
29	3,435	3,504	3,194	3,156	------	4,051	4,459	4,479	4,246	3,815	3,411	3,262
30	3,430	3,511	3,195	3,155	------	4,071	4,461	4,475	4,237	3,804	3,403	3,263
31	3,424	------	3,194	3,156	------	4,090	------	4,472	------	3,790	3,397	------
MAX	3,607	3,511	3,510	3,394	3,484	4,090	4,461	4,494	4,467	4,220	3,775	3,393
MIN	3,424	3,355	3,188	3,155	3,158	3,496	4,112	4,457	4,237	3,790	3,397	3,262
(†)	1,025.62	1,029.10	1,016.12	1,014.48	1,028.03	1,050.95	1,063.91	1,064.30	1,056.17	1,039.89	1,024.52	1,019.00
(‡)	-188.4	+86.8	-316.6	-38.6	+328.3	+605.6	+371.1	+11.5	-235.6	-446.8	-392.8	-134.0
(††)	8,330	1,890	1,800	2,390	2,480	5,350	10,430	14,300	14,500	16,550	15,920	10,840

CAL YR 1965 MAX 4,513 MIN 3,188 ‡ -61
WTR YR 1966 MAX 4,494 MIN 3,155 ‡ -349

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN THOUSANDS OF ACRE-FEET.
†† EVAPORATION, IN ACRE-FEET.

11370000 SHASTA LAKE NEAR REDDING, CALIF.--CONTINUED

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,259	3,146	3,342	3,159	3,503	3,354	4,119	4,466	4,527	4,433	4,108	3,753
2	3,251	3,144	3,385	3,149	3,483	3,359	4,139	4,467	4,526	4,418	4,098	3,741
3	3,247	3,143	3,414	3,144	3,459	3,363	4,160	4,467	4,523	4,411	4,089	3,729
4	3,248	3,141	3,489	3,146	3,429	3,366	4,182	4,468	4,522	4,399	4,079	3,715
5	3,245	3,139	3,549	3,148	3,394	3,370	4,211	4,470	4,520	4,393	4,061	3,703
6	3,245	3,136	3,518	3,153	3,360	3,371	4,252	4,476	4,519	4,387	4,045	3,692
7	3,244	3,133	3,463	3,156	3,340	3,378	4,275	4,482	4,516	4,379	4,036	3,683
8	3,241	3,132	3,391	3,156	3,334	3,380	4,289	4,495	4,519	4,370	4,024	3,672
9	3,237	3,132	3,316	3,161	3,333	3,387	4,304	4,514	4,521	4,358	4,015	3,667
10	3,234	3,131	3,274	3,165	3,333	3,409	4,324	4,528	4,520	4,349	4,005	3,658
11	3,235	3,133	3,271	3,171	3,333	3,428	4,346	4,535	4,520	4,338	3,995	3,648
12	3,233	3,133	3,267	3,174	3,332	3,442	4,365	4,540	4,521	4,329	3,983	3,641
13	3,232	3,135	3,272	3,177	3,329	3,459	4,372	4,538	4,520	4,322	3,971	3,630
14	3,231	3,148	3,277	3,180	3,331	3,467	4,381	4,536	4,519	4,315	3,960	3,622
15	3,229	3,177	3,280	3,181	3,333	3,482	4,387	4,536	4,518	4,306	3,946	3,616
16	3,222	3,197	3,283	3,185	3,334	3,585	4,389	4,538	4,517	4,291	3,934	3,605
17	3,219	3,204	3,281	3,188	3,334	3,651	4,407	4,542	4,514	4,282	3,922	3,594
18	3,218	3,209	3,278	3,191	3,329	3,703	4,418	4,547	4,511	4,269	3,912	3,586
19	3,217	3,234	3,276	3,201	3,330	3,744	4,428	4,550	4,509	4,259	3,900	3,579
20	3,217	3,297	3,270	3,222	3,331	3,787	4,434	4,550	4,507	4,249	3,886	3,574
21	3,212	3,337	3,256	3,257	3,333	3,824	4,439	4,548	4,503	4,238	3,876	3,568
22	3,206	3,359	3,244	3,276	3,335	3,857	4,444	4,549	4,497	4,220	3,864	3,562
23	3,198	3,366	3,230	3,284	3,336	3,894	4,443	4,547	4,494	4,204	3,853	3,554
24	3,190	3,364	3,222	3,294	3,340	3,926	4,443	4,541	4,490	4,195	3,842	3,545
25	3,184	3,363	3,210	3,302	3,344	3,955	4,449	4,535	4,479	4,186	3,831	3,537
26	3,178	3,359	3,197	3,315	3,348	3,982	4,455	4,530	4,473	4,176	3,821	3,530
27	3,176	3,351	3,185	3,338	3,350	4,006	4,462	4,527	4,467	4,167	3,807	3,523
28	3,169	3,348	3,175	3,387	3,351	4,029	4,465	4,526	4,459	4,160	3,796	3,518
29	3,162	3,344	3,168	3,462	------	4,051	4,468	4,524	4,452	4,150	3,785	3,513
30	3,152	3,338	3,164	3,491	------	4,077	4,467	4,524	4,444	4,133	3,775	3,506
31	3,151	------	3,163	3,511	------	4,099	------	4,524	------	4,120	3,765	------
MAX	3,259	3,366	3,549	3,511	3,503	4,099	4,468	4,550	4,527	4,433	4,108	3,753
MIN	3,151	3,131	3,163	3,144	3,329	3,354	4,119	4,466	4,444	4,120	3,765	3,506
(†)	1,014.26	1,022.10	1,014.80	1,029.12	1,022.63	1,051.30	1,064.13	1,066.04	1,063.34	1,052.05	1,038.96	1,028.90
(‡)	-112.4	+187.2	-174.6	+348.2	-160.7	+748.6	+367.9	+56.4	-79.6	-323.7	-355.2	-259.2
(††)	8,530	3,100	1,630	2,180	4,010	3,640	1,900	12,810	12,370	16,340	16,510	12,740

CAL YR 1966 MAX 4,494 MIN 3,131 ‡ -31
WTR YR 1967 MAX 4,550 MIN 3,131 ‡ +243

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN THOUSANDS OF ACRE-FEET.
†† EVAPORATION, IN ACRE-FEET.

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,498	3,324	3,236	3,162	3,249	3,525	3,807	3,889	3,909	3,706	3,296	2,944
2	3,491	3,320	3,237	3,157	3,254	3,522	3,816	3,889	3,907	3,695	3,283	2,935
3	3,488	3,314	3,242	3,153	3,258	3,523	3,821	3,888	3,906	3,686	3,266	2,924
4	3,482	3,308	3,253	3,150	3,265	3,525	3,831	3,886	3,902	3,674	3,253	2,916
5	3,477	3,302	3,260	3,148	3,275	3,530	3,839	3,886	3,902	3,664	3,239	2,909
6	3,470	3,297	3,261	3,144	3,282	3,531	3,843	3,886	3,900	3,649	3,226	2,903
7	3,465	3,293	3,259	3,139	3,290	3,535	3,851	3,887	3,897	3,632	3,212	2,897
8	3,455	3,287	3,258	3,136	3,297	3,535	3,856	3,882	3,891	3,618	3,200	2,885
9	3,448	3,287	3,253	3,140	3,307	3,535	3,859	3,878	3,888	3,609	3,187	2,876
10	3,455	3,281	3,250	3,141	3,320	3,535	3,864	3,877	3,884	3,599	3,172	2,869
11	3,442	3,281	3,247	3,140	3,330	3,534	3,869	3,874	3,879	3,585	3,158	2,863
12	3,435	3,274	3,243	3,140	3,339	3,543	3,875	3,870	3,874	3,572	3,145	2,857
13	3,429	3,271	3,238	3,142	3,342	3,551	3,880	3,872	3,871	3,557	3,130	2,851
14	3,424	3,272	3,236	3,151	3,351	3,566	3,885	3,871	3,866	3,540	3,120	2,836
15	3,420	3,270	3,231	3,172	3,358	3,583	3,887	3,875	3,861	3,526	3,111	2,823
16	3,414	3,266	3,224	3,187	3,370	3,611	3,890	3,875	3,852	3,515	3,101	2,811
17	3,408	3,264	3,218	3,196	3,407	3,637	3,895	3,877	3,846	3,503	3,088	2,803
18	3,402	3,261	3,213	3,201	3,437	3,657	3,897	3,879	3,839	3,489	3,075	2,792
19	3,397	3,258	3,210	3,205	3,469	3,673	3,898	3,881	3,834	3,473	3,066	2,784
20	3,391	3,256	3,205	3,206	3,509	3,686	3,894	3,884	3,831	3,458	3,061	2,775
21	3,384	3,253	3,202	3,206	3,580	3,699	3,890	3,886	3,827	3,442	3,053	2,766
22	3,378	3,250	3,201	3,208	3,649	3,710	3,890	3,889	3,815	3,428	3,043	2,753
23	3,375	3,249	3,197	3,212	3,715	3,720	3,893	3,890	3,801	3,417	3,034	2,743
24	3,367	3,246	3,190	3,214	3,701	3,729	3,891	3,894	3,789	3,406	3,025	2,732
25	3,363	3,242	3,184	3,218	3,666	3,740	3,892	3,897	3,781	3,392	3,012	2,722
26	3,357	3,240	3,180	3,221	3,622	3,751	3,892	3,899	3,768	3,377	3,002	2,712
27	3,354	3,237	3,178	3,221	3,581	3,760	3,888	3,901	3,757	3,362	2,997	2,702
28	3,346	3,236	3,174	3,223	3,552	3,770	3,891	3,903	3,746	3,346	2,990	2,692
29	3,342	3,237	3,174	3,235	3,537	3,780	3,890	3,904	3,730	3,333	2,979	2,682
30	3,337	3,237	3,174	3,239	------	3,788	3,889	3,909	3,714	3,321	2,970	2,670
31	3,329	------	3,168	3,246	------	3,798	------	3,909	------	3,307	2,958	------
MAX	3,498	3,324	3,261	3,246	3,715	3,798	3,898	3,909	3,909	3,706	3,296	2,944
MIN	3,329	3,236	3,168	3,136	3,249	3,522	3,807	3,870	3,714	3,307	2,958	2,670
(†)	1,021.75	1,017.95	1,015.00	1,018.30	1,030.12	1,040.20	1,043.63	1,044.35	1,037.01	1,020.85	1,055.86	992.56
(‡)	-176.6	-91.9	-69.5	+78.3	+290.4	+261.4	+91.4	+91.4	-194.9	-406.4	-349.5	-288.1
(††)	7,410	3,710	3,130	2,550	2,980	4,520	9,490	10,530	14,370	14,930	9,690	9,370

CAL YR 1967 MAX 4,550 MIN 3,144 ‡ +5
WTR YR 1968 MAX 3,909 MIN 2,670 ‡ -836

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN THOUSANDS OF ACRE-FEET.
†† EVAPORATION, IN ACRE-FEET.

11370000 SHASTA LAKE NEAR REDDING, CALIF.--CONTINUED

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,662	2,513	2,469	2,738	3,198	3,205	3,704	4,401	4,484	4,264	3,969	3,632
2	2,656	2,516	2,467	2,747	3,196	3,216	3,741	4,408	4,482	4,257	3,953	3,623
3	2,648	2,518	2,464	2,755	3,199	3,220	3,774	4,415	4,478	4,255	3,938	3,617
4	2,645	2,516	2,461	2,764	3,200	3,224	3,807	4,422	4,476	4,244	3,926	3,617
5	2,638	2,515	2,460	2,779	3,201	3,228	3,852	4,428	4,471	4,233	3,917	3,618
6	2,633	2,514	2,456	2,791	3,204	3,231	3,888	4,435	4,468	4,216	3,907	3,611
7	2,629	2,513	2,454	2,808	3,208	3,239	3,920	4,444	4,461	4,203	3,900	3,604
8	2,623	2,512	2,451	2,821	3,216	3,251	3,949	4,454	4,453	4,191	3,891	3,602
9	2,616	2,507	2,450	2,832	3,259	3,261	3,974	4,465	4,449	4,185	3,876	3,602
10	2,610	2,503	2,492	2,844	3,289	3,269	3,997	4,478	4,442	4,176	3,862	3,602
11	2,608	2,504	2,512	2,861	3,354	3,275	4,021	4,491	4,439	4,171	3,853	3,603
12	2,610	2,503	2,522	2,919	3,383	3,289	4,046	4,503	4,434	4,161	3,844	3,605
13	2,607	2,503	2,535	3,031	3,373	3,295	4,070	4,511	4,428	4,148	3,837	3,608
14	2,604	2,503	2,549	3,081	3,357	3,302	4,093	4,515	4,421	4,138	3,830	3,603
15	2,601	2,503	2,592	3,112	3,349	3,311	4,113	4,518	4,411	4,129	3,824	3,602
16	2,595	2,499	2,617	3,132	3,331	3,323	4,134	4,517	4,406	4,120	3,811	3,603
17	2,591	2,497	2,626	3,152	3,307	3,339	4,155	4,516	4,398	4,117	3,795	3,601
18	2,586	2,496	2,631	3,170	3,276	3,356	4,177	4,514	4,395	4,112	3,784	3,598
19	2,581	2,494	2,637	3,196	3,241	3,372	4,198	4,514	4,388	4,100	3,776	3,594
20	2,575	2,492	2,640	3,320	3,209	3,392	4,221	4,510	4,378	4,085	3,771	3,588
21	2,570	2,492	2,645	3,448	3,190	3,412	4,244	4,506	4,370	4,074	3,761	3,581
22	2,565	2,490	2,650	3,455	3,182	3,429	4,266	4,503	4,359	4,068	3,751	3,573
23	2,559	2,488	2,657	3,430	3,176	3,448	4,293	4,501	4,350	4,060	3,736	3,566
24	2,553	2,483	2,670	3,394	3,171	3,468	4,313	4,502	4,342	4,047	3,720	3,560
25	2,546	2,480	2,682	3,350	3,176	3,489	4,332	4,499	4,332	4,037	3,708	3,557
26	2,541	2,478	2,691	3,335	3,181	3,512	4,347	4,498	4,324	4,022	3,700	3,551
27	2,533	2,477	2,702	3,301	3,186	3,536	4,360	4,498	4,317	4,008	3,692	3,542
28	2,528	2,475	2,712	3,254	3,197	3,564	4,375	4,495	4,300	3,998	3,685	3,538
29	2,525	2,475	2,718	3,238	------	3,597	4,386	4,491	4,285	3,991	3,676	3,533
30	2,522	2,473	2,726	3,223	------	3,630	4,394	4,488	4,275	3,984	3,662	3,528
31	2,515	------	2,732	3,206	------	3,667	------	4,487	------	3,978	3,646	------
MAX	2,662	2,518	2,732	3,455	3,383	3,667	4,394	4,518	4,484	4,264	3,969	3,632
MIN	2,515	2,473	2,450	2,738	3,171	3,205	3,704	4,401	4,275	3,978	3,646	3,528
(†)	985.01	982.89	995.53	1,016.61	1,016.25	1,035.20	1,061.62	1,064.80	1,057.53	1,046.91	1,034.40	1,029.78
(‡)	-154.7	-42.2	+259.5	+473.5	-8.6	+469.3	+727.1	+93.1	-211.4	-297.3	-332.2	-118.0
(††)	5,240	2,040	1,460	1,380	1,190	5,010	7,100	13,890	12,010	18,160	16,660	11,030

CAL YR 1968 MAX 3,909 MIN 2,450 ‡ -436
WTR YR 1969 MAX 4,518 MIN 2,450 ‡ +858

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN THOUSANDS OF ACRE-FEET.
†† EVAPORATION, IN ACRE-FEET.

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,521	3,362	3,220	3,240	3,945	3,435	3,984	4,097	4,103	3,947	3,718	3,570
2	3,517	3,354	3,210	3,227	3,856	3,460	3,989	4,091	4,099	3,943	3,710	3,566
3	3,516	3,346	3,202	3,215	3,783	3,479	3,995	4,087	4,092	3,940	3,704	3,561
4	3,512	3,339	3,196	3,202	3,708	3,503	3,998	4,088	4,087	3,935	3,703	3,556
5	3,506	3,338	3,192	3,189	3,649	3,523	4,001	4,088	4,082	3,927	3,699	3,549
6	3,499	3,336	3,190	3,178	3,590	3,542	4,009	4,091	4,075	3,922	3,696	3,538
7	3,493	3,334	3,180	3,164	3,526	3,561	4,020	4,092	4,067	3,919	3,692	3,530
8	3,491	3,332	3,173	3,153	3,467	3,586	4,029	4,094	4,063	3,912	3,681	3,526
9	3,484	3,326	3,172	3,168	3,418	3,610	4,041	4,096	4,058	3,906	3,669	3,520
10	3,477	3,324	3,176	3,206	3,376	3,636	4,049	4,095	4,053	3,899	3,663	3,515
11	3,473	3,325	3,198	3,225	3,340	3,660	4,057	4,095	4,049	3,890	3,660	3,514
12	3,468	3,327	3,244	3,247	3,316	3,684	4,063	4,093	4,044	3,875	3,656	3,505
13	3,464	3,324	3,264	3,323	3,306	3,707	4,068	4,092	4,041	3,863	3,652	3,496
14	3,459	3,321	3,276	3,446	3,300	3,729	4,076	4,095	4,035	3,856	3,648	3,491
15	3,458	3,316	3,277	3,483	3,302	3,750	4,081	4,096	4,030	3,850	3,639	3,483
16	3,452	3,310	3,273	3,568	3,316	3,770	4,087	4,101	4,026	3,844	3,629	3,485
17	3,447	3,307	3,268	3,638	3,333	3,787	4,092	4,101	4,021	3,838	3,626	3,482
18	3,444	3,303	3,261	3,676	3,345	3,804	4,098	4,101	4,015	3,828	3,623	3,483
19	3,436	3,295	3,293	3,696	3,354	3,821	4,101	4,102	4,009	3,813	3,620	3,476
20	3,431	3,292	3,343	3,698	3,362	3,838	4,103	4,104	4,004	3,805	3,616	3,472
21	3,425	3,286	3,460	3,769	3,373	3,855	4,106	4,108	4,002	3,799	3,615	3,471
22	3,419	3,278	3,483	3,881	3,378	3,873	4,108	4,111	3,999	3,795	3,604	3,468
23	3,413	3,271	3,497	4,137	3,380	3,888	4,108	4,111	3,996	3,790	3,595	3,465
24	3,406	3,266	3,485	4,301	3,385	3,898	4,108	4,110	3,990	3,785	3,590	3,464
25	3,400	3,259	3,459	4,308	3,389	3,913	4,108	4,110	3,991	3,775	3,589	3,463
26	3,395	3,251	3,427	4,303	3,392	3,925	4,106	4,112	3,989	3,761	3,588	3,456
27	3,389	3,245	3,389	4,311	3,392	3,939	4,105	4,113	3,975	3,748	3,584	3,450
28	3,384	3,240	3,347	4,269	3,409	3,951	4,103	4,113	3,960	3,742	3,580	3,446
29	3,378	3,234	3,305	4,207	------	3,963	4,102	4,111	3,951	3,737	3,577	3,444
30	3,372	3,228	3,282	4,127	------	3,975	4,100	4,108	3,948	3,732	3,573	3,441
31	3,367	------	3,263	4,037	------	3,981	------	4,107	------	3,728	3,572	------
MAX	3,521	3,362	3,497	4,311	3,945	3,981	4,108	4,113	4,103	3,947	3,718	3,570
MIN	3,367	3,228	3,172	3,153	3,300	3,435	3,984	4,087	3,948	3,728	3,572	3,441
(†)	1,023.30	1,017.54	1,019.01	1,049.06	1,025.01	1,047.01	1,051.33	1,051.58	1,045.80	1,037.55	1,031.52	1,026.31
(‡)	-161	-139	+35.0	+774	-628	-572	+119	+7.0	-159	-220	-156	-131
(††)	6,110	5,220	2,080	1,670	3,430	5,950	8,240	12,000	13,290	17,440	15,920	12,090

CAL YR 1969 MAX 4,518 MIN 2,738 ‡ +531
WTR YR 1970 MAX 4,311 MIN 3,153 ‡ -87

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN THOUSANDS OF ACRE-FEET.
†† EVAPORATION, IN ACRE-FEET.

11370500 SACRAMENTO RIVER AT KESWICK, CALIF.

LOCATION.--Lat 40°36'04", long 122°26'36", in SW¼NW¼ sec.28, T.32 N., R.5 W., Shasta County, on right bank 0.4 mile upstream from Middle Creek, 0.8 mile downstream from Keswick Dam, 1.6 miles downstream from Keswick, and 10 miles downstream from Shasta Dam.

DRAINAGE AREA.--6,468 sq mi (revised), excluding Goose Lake basin.

PERIOD OF RECORD.--October 1938 to September 1970. Monthly discharge only for some periods, published in WSP 1315-A.

GAGE.--Water-stage recorder. Datum of gage is 479.81 ft above mean sea level. Prior to Oct. 1, 1939, at site 1.5 miles upstream at datum 20.2 ft higher and Oct. 1, 1939, to Apr. 30, 1942, at site 1.5 miles upstream at datum 15.2 ft higher. Since Aug. 20, 1960, auxiliary water-stage recorder at city of Redding pumping plant 2.1 miles downstream.

AVERAGE DISCHARGE.--32 years, 8,408 cfs (6,092,000 acre-ft per year), adjusted for change in contents and evaporation from Shasta Lake and transbasin diversion into Keswick Reservoir.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 17, 1966	17,300	16.95	Mar. 13, 1966	4,460
1967	Dec. 9, 1966	56,200	27.95	Jan. 12-15, 17, 1967	3,820
1968	Feb. 24, 1968	53,300	27.46	Mar. 22, 1968	5,920
1969	Jan. 21, 1969	56,000	27.92	Jan. 8, 10, 1969	3,060
1970	Jan. 24, 1970	78,900	32.22	Nov. 11, 1969	4,240

Period of record: Maximum discharge, 186,000 cfs Feb. 23, 1940 (gage height, 47.2 ft, site and datum then in use), from rating curve extended above 75,000 cfs on basis of peak discharge at Kennet plus 4,000 cfs estimated inflow; minimum observed, 2,730 cfs Aug. 22, 1939. Maximum discharge since regulation by Shasta Lake in 1944, 78,900 cfs Jan. 24, 1970 (gage height, 32.22 ft); minimum, 154 cfs May 15, 1948.

REMARKS.--Records good. Beginning Dec. 30, 1943, flow regulated by Shasta Lake (see station 11370000). Diurnal fluctuations from Shasta powerplant reregulated by Keswick Reservoir (capacity, 4,170 acre-ft between normal operation elevations 579.0 and 586.0 ft) and powerplant. No diversion for irrigation between Shasta Dam and station at Keswick. Since December 1963, water is released from Whiskeytown Lake (see station 11371700) at lat 40°37'03", long 122°31'31", through a tunnel to Spring Creek powerplant (see station 11371600) and then into Keswick Reservoir. See schematic diagram of Pit and McCloud River basins elsewhere in this report.

COOPERATION.--Sixty-two discharge measurements furnished by Bureau of Reclamation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8,290	7,660	6,330	11,500	10,600	5,510	5,440	8,900	9,080	12,300	13,000	8,900
2	8,280	7,640	11,900	11,500	10,300	5,520	5,390	8,880	9,080	12,900	13,300	8,840
3	8,300	7,640	12,000	10,900	9,590	4,620	5,380	8,880	9,890	13,000	13,300	8,800
4	8,320	7,610	12,400	10,900	8,910	4,610	5,330	8,880	10,200	13,000	13,200	8,780
5	8,280	7,600	12,400	10,500	8,880	4,620	5,300	8,880	10,200	13,000	13,200	8,810
6	8,230	7,610	12,400	13,400	8,710	4,600	5,280	8,880	10,200	13,100	13,200	8,550
7	8,190	7,610	12,500	15,200	8,670	4,610	5,290	8,870	10,200	13,100	13,200	8,380
8	8,130	7,650	12,600	15,400	8,610	4,620	5,290	8,870	10,200	13,100	13,200	8,380
9	8,100	7,670	12,600	16,800	8,630	4,720	5,330	8,880	10,200	13,100	13,300	7,930
10	8,100	7,650	12,600	16,700	8,580	4,820	5,350	9,700	10,100	13,100	13,200	7,820
11	8,100	7,640	12,600	16,800	7,510	4,710	5,330	9,890	10,200	13,900	13,200	7,800
12	8,080	7,660	12,700	16,600	7,490	4,560	5,290	9,890	10,200	14,100	13,200	7,760
13	8,090	7,730	12,600	16,600	7,420	4,460	5,310	9,890	10,200	14,200	13,000	7,790
14	8,090	7,820	12,600	16,900	7,380	4,920	6,280	9,890	10,200	14,300	13,200	7,790
15	8,090	7,850	12,600	16,700	7,400	5,570	7,200	9,890	10,700	14,200	13,200	7,820
16	8,090	7,730	12,600	16,800	6,340	6,580	8,170	9,890	11,200	14,400	13,200	7,780
17	8,120	8,120	12,600	16,800	6,310	7,930	9,140	9,890	11,200	14,400	13,200	7,780
18	8,130	8,320	12,600	16,700	6,310	9,450	9,890	9,430	11,900	14,500	13,200	7,780
19	8,130	8,090	12,700	16,600	6,420	9,620	9,890	8,970	12,200	14,600	13,200	7,760
20	8,130	9,470	12,600	16,700	5,370	9,690	9,890	8,950	12,200	14,600	13,200	7,780
21	8,150	9,990	11,400	16,800	5,400	10,700	9,890	9,000	12,300	14,700	13,200	7,760
22	8,160	9,990	11,400	16,800	5,430	9,630	9,890	8,950	12,300	14,700	12,700	7,760
23	8,150	11,300	11,400	16,800	5,420	9,630	9,890	8,980	12,300	13,800	12,100	7,760
24	8,120	12,000	11,400	16,800	5,420	10,100	9,890	9,010	12,200	13,900	12,000	7,760
25	8,100	12,000	11,400	16,200	5,480	6,740	9,210	9,010	12,300	13,900	12,000	7,740
26	8,120	11,800	11,400	14,600	5,480	7,610	8,860	9,030	12,300	13,900	12,000	7,730
27	8,120	11,800	11,400	13,400	5,500	7,490	8,840	9,040	12,300	14,000	12,000	7,720
28	8,120	11,500	11,500	12,100	5,510	6,460	8,880	9,060	12,300	14,400	12,000	7,700
29	8,120	6,050	11,500	11,400	------	5,510	8,900	9,060	12,300	13,800	11,700	7,730
30	8,120	5,990	11,500	10,700	------	5,460	8,880	9,080	12,300	12,900	11,000	7,700
31	8,130	------	11,500	10,600	------	5,440	------	9,070	------	13,000	9,600	------
TOTAL	252,680	259,190	369,730	456,200	203,070	200,510	222,900	285,490	332,450	425,900	394,200	240,390
MEAN	8,151	8,640	11,930	14,720	7,253	6,468	7,430	9,209	11,080	13,740	12,720	8,013
MAX	8,320	12,000	12,700	16,900	10,600	10,700	9,890	9,890	12,300	14,700	13,300	8,900
MIN	8,080	5,990	6,330	10,500	5,370	4,460	5,280	8,870	9,080	12,300	9,600	7,700
AC-FT	501,200	514,100	733,400	904,900	402,800	397,700	442,100	566,300	659,400	844,800	781,900	476,800
MEAN†	3,830	8,653	5,720	12,650	11,500	15,080	12,140	6,341	4,428	3,841	3,633	3,721
AC-FT†	235,500	514,900	351,700	778,000	638,800	927,500	722,600	389,900	263,500	236,200	223,400	221,400

CAL YR 1965 TOTAL 3,684,470 MEAN 10,090 MAX 53,400 MIN 3,470 AC-FT 7,308,000 MEAN† 8,350 AC-FT† 6,045,000
WTR YR 1966 TOTAL 3,642,710 MEAN 9,980 MAX 16,900 MIN 4,460 AC-FT 7,225,000 MEAN† 7,601 AC-FT† 5,503,000

† ADJUSTED FOR CHANGE IN CONTENTS AND EVAPORATION FROM SHASTA LAKE AND TRANSBASIN DIVERSION INTO KESWICK RESERVOIR.

M EXPRESSED IN THOUSANDS.

11370500 SACRAMENTO RIVER AT KESWICK, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7,690	7,690	13,600	8,320	42,500	8,120	5,290	14,600	14,000	12,900	12,800	12,400
2	7,720	7,690	14,500	8,320	42,000	8,070	5,200	13,900	13,900	12,900	12,800	12,400
3	7,670	7,690	15,000	7,640	41,800	7,790	5,100	14,000	13,900	12,900	12,800	12,400
4	7,690	7,690	16,300	6,530	41,700	7,500	5,180	13,400	13,900	12,900	12,900	12,400
5	7,690	7,700	26,400	5,510	41,400	7,450	5,240	12,300	13,900	12,900	12,900	12,400
6	7,690	7,700	42,900	5,020	39,000	6,900	6,010	12,000	13,900	12,900	12,800	12,400
7	7,690	7,690	49,800	5,020	30,200	6,300	10,900	11,300	13,300	12,400	12,800	12,400
8	7,690	7,690	53,000	5,030	20,700	6,310	12,000	10,900	12,800	12,400	12,900	12,000
9	7,700	7,670	51,400	4,950	15,900	5,300	12,000	11,300	12,900	12,400	12,900	12,000
10	7,690	7,410	36,600	4,360	14,500	5,310	12,000	13,100	12,800	12,400	12,900	12,000
11	7,690	7,270	16,200	4,100	14,300	5,280	12,000	14,000	12,800	12,400	12,900	12,000
12	7,690	7,270	15,600	3,820	14,300	5,240	11,400	15,700	12,800	12,400	12,900	12,000
13	7,690	7,250	15,400	3,820	14,000	5,220	14,600	16,300	12,800	12,400	12,900	12,000
14	7,690	7,270	15,200	3,820	13,200	5,200	14,600	16,100	12,800	12,400	12,800	11,300
15	7,670	7,360	14,500	3,820	12,700	5,170	14,800	16,200	12,800	12,400	12,900	11,300
16	7,700	7,270	14,600	3,830	12,300	5,410	14,600	16,200	12,800	12,400	12,900	11,300
17	7,670	7,240	14,500	3,820	11,900	5,220	14,700	16,400	12,800	12,400	12,900	11,300
18	7,690	7,240	14,500	3,840	11,300	5,200	15,800	16,000	12,800	12,400	12,900	11,300
19	7,670	7,300	14,600	3,840	11,300	5,190	16,400	17,300	12,900	12,400	12,900	10,700
20	7,670	7,420	14,600	4,050	10,800	5,210	16,900	18,600	12,900	12,400	12,900	10,700
21	7,670	7,450	14,600	4,050	9,750	5,210	16,700	19,500	12,800	12,400	12,900	10,700
22	7,660	8,810	14,600	4,030	8,640	5,120	17,000	19,500	12,800	12,400	12,900	10,700
23	7,660	11,300	14,600	3,940	8,640	5,080	16,800	19,700	12,900	12,500	12,900	10,700
24	7,670	13,300	13,500	4,010	8,650	5,070	17,100	20,000	12,900	12,400	12,900	10,700
25	7,670	13,300	13,500	4,000	8,640	5,140	16,700	19,700	12,900	12,400	12,900	10,700
26	7,690	13,300	13,500	4,210	8,600	5,050	15,500	18,700	12,900	12,400	12,900	10,800
27	7,690	13,300	13,000	4,180	8,630	5,130	15,100	17,000	12,900	12,500	12,900	10,300
28	7,690	13,300	12,100	7,350	8,640	5,140	15,300	16,300	12,900	12,500	12,900	10,200
29	7,670	13,300	10,100	23,000	------	5,120	15,300	15,400	12,900	12,500	12,100	10,200
30	7,720	13,300	9,480	33,800	------	5,130	15,300	15,200	12,900	12,500	12,400	9,600
31	7,700	------	8,300	41,300	------	5,340	------	14,700	------	12,500	12,400	------
TOTAL	238,240	270,170	606,480	233,330	525,990	177,920	385,520	485,300	392,300	388,000	397,500	341,300
MEAN	7,685	9,006	19,560	7,527	18,790	5,739	12,850	15,650	13,080	12,520	12,820	11,380
MAX	7,720	13,300	53,000	41,300	42,500	8,120	17,100	20,000	14,000	12,900	12,900	12,400
MIN	7,660	7,240	8,300	3,820	8,600	5,050	5,100	10,900	12,800	12,400	12,100	9,600
AC-FT	472,500	535,900	1,203M	462,800	1,043M	352,900	764,700	962,600	778,100	769,600	788,400	677,000
MEAN†	3,597	9,031	15,260	12,300	14,170	16,620	17,090	15,220	8,692	4,607	4,388	4,015
AC-FT†	221,200	537,400	938,400	756,200	786,800	1,022M	1,017M	935,700	517,200	283,300	269,800	238,900

CAL YR 1966 TOTAL 3,876,000 MEAN 10,620 MAX 53,000 MIN 4,460 AC-FT 7,688,000 MEAN† 8,423 AC-FT 6,098,000
WTR YR 1967 TOTAL 4,442,050 MEAN 12,170 MAX 53,000 MIN 3,820 AC-FT 8,811,000 MEAN† 10,390 AC-FT† 7,524,000

† ADJUSTED FOR CHANGE IN CONTENTS AND EVAPORATION FROM SHASTA LAKE AND TRANSBASIN DIVERSION INTO KESWICK RESERVOIR.
M EXPRESSED IN THOUSANDS.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9,600	9,310	7,230	7,750	6,710	22,800	6,040	10,000	9,580	12,900	14,200	9,790
2	9,600	8,180	7,210	7,720	6,810	18,000	6,030	10,000	9,550	13,500	14,200	9,790
3	9,600	8,240	7,250	7,710	6,730	13,500	6,030	10,000	9,600	13,300	14,200	9,790
4	9,600	8,110	7,240	7,770	6,690	12,100	6,040	10,000	10,100	13,300	14,200	9,790
5	9,600	7,250	7,230	7,190	6,680	12,100	6,040	10,000	10,100	13,900	14,200	9,790
6	9,600	7,250	7,750	6,650	6,660	12,100	6,040	10,000	10,100	13,700	14,200	9,790
7	9,600	7,250	8,330	6,640	6,640	12,100	6,030	10,000	10,700	13,600	14,200	9,790
8	9,600	7,250	8,260	6,620	6,640	12,100	6,020	10,000	10,700	13,600	14,200	9,790
9	9,600	7,220	8,280	6,640	6,640	12,000	7,090	10,000	10,700	13,700	14,200	9,790
10	9,600	7,250	8,290	6,720	6,640	11,000	7,120	10,000	10,700	13,700	14,200	9,790
11	9,600	7,210	8,290	6,670	6,630	11,000	7,120	10,000	10,600	13,700	14,200	9,790
12	9,600	7,220	8,280	6,670	6,630	10,000	7,100	9,600	10,500	14,300	14,200	9,790
13	9,600	7,250	8,280	6,670	6,640	10,100	7,120	9,550	10,400	14,200	14,200	9,790
14	9,600	7,250	8,260	6,750	6,640	9,100	7,120	9,010	10,500	14,200	13,600	9,790
15	9,600	7,250	8,250	6,720	6,640	9,060	7,340	8,440	10,800	14,200	13,300	9,790
16	9,600	7,220	8,250	6,680	6,670	8,280	7,610	8,400	10,800	14,200	12,800	9,790
17	9,600	7,260	8,220	6,650	6,980	7,120	8,170	8,410	10,800	14,200	12,200	9,790
18	9,600	7,210	8,210	6,650	6,720	6,530	8,270	8,410	10,700	14,200	12,200	9,790
19	9,600	7,170	8,210	6,640	6,770	6,530	9,240	8,410	11,500	14,200	12,000	9,790
20	9,600	7,140	8,190	6,640	7,490	5,990	9,470	8,410	11,500	14,200	10,400	9,790
21	9,700	7,180	8,190	6,640	9,800	5,970	9,450	8,410	11,500	14,200	10,200	9,790
22	9,600	7,180	8,190	6,600	12,300	5,920	9,480	8,400	11,500	14,200	10,100	9,790
23	9,600	7,180	8,180	6,650	18,400	5,940	9,890	8,400	11,500	14,200	10,100	9,790
24	9,700	7,180	8,140	6,640	50,500	5,950	9,700	8,400	11,800	14,200	10,100	9,790
25	9,700	7,180	8,210	6,640	52,400	5,930	9,430	8,400	12,100	14,200	10,100	9,790
26	9,700	7,180	8,230	6,640	52,500	5,990	9,370	8,400	13,000	14,200	10,100	9,790
27	9,700	7,190	8,230	6,650	46,500	6,010	9,380	8,400	12,900	14,200	10,100	9,790
28	9,700	7,190	8,250	6,650	37,100	5,990	9,360	8,400	12,900	14,200	10,100	9,790
29	9,700	7,200	8,250	6,760	27,300	5,990	9,370	8,400	12,900	14,200	10,100	9,790
30	9,700	7,200	8,260	6,780	------	6,010	9,370	8,400	12,900	14,200	10,100	9,790
31	9,700	------	8,290	6,730	------	6,030	------	8,770	------	14,200	10,100	------
TOTAL	298,500	221,350	249,930	211,530	441,450	287,240	235,840	281,420	332,930	433,000	382,300	293,700
MEAN	9,629	7,378	8,062	6,824	15,220	9,266	7,861	9,078	11,100	13,970	12,330	9,790
MAX	9,700	9,310	8,330	7,770	52,500	22,800	9,890	10,000	13,000	14,300	14,200	9,790
MIN	9,600	7,140	7,210	6,600	6,630	5,920	6,020	8,400	9,550	12,900	10,100	9,790
AC-FT	592,100	439,000	495,700	419,600	875,600	569,700	467,800	558,200	660,400	858,900	758,300	582,600
MEAN†	4,316	4,410	5,354	6,918	18,860	12,140	7,448	6,315	4,422	3,715	3,651	3,791
AC-FT†	265,400	262,400	329,200	425,400	1,085M	746,700	443,200	388,300	263,100	228,400	224,500	225,600

CAL YR 1967 TOTAL 4,096,940 MEAN 11,220 MAX 42,500 MIN 3,820 AC-FT 8,126,000 MEAN† 9,232 AC-FT† 6,684,000
WTR YR 1968 TOTAL 3,669,190 MEAN 10,030 MAX 52,500 MIN 5,920 AC-FT 7,278,000 MEAN† 6,732 AC-FT† 4,887,000

† ADJUSTED FOR CHANGE IN CONTENTS AND EVAPORATION FROM SHASTA LAKE AND TRANSBASIN DIVERSION INTO KESWICK RESERVOIR.
M EXPRESSED IN THOUSANDS.

11370500 SACRAMENTO RIVER AT KESWICK, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8,780	6,680	6,620	3,970	19,000	14,600	6,030	11,800	14,500	14,300	12,500	12,000
2	7,870	6,820	6,620	3,590	14,900	12,100	6,030	11,900	14,500	12,400	12,500	12,000
3	7,820	6,880	6,640	3,170	13,000	12,000	5,200	11,900	14,400	12,400	12,500	11,300
4	7,270	6,880	6,640	3,160	13,000	12,000	5,220	11,800	14,500	12,400	12,600	10,400
5	7,190	6,890	6,640	3,120	13,000	11,000	6,130	11,800	14,500	12,400	12,600	9,360
6	7,190	6,940	6,630	3,100	13,100	9,840	6,160	11,800	14,500	12,400	12,200	9,110
7	7,190	7,010	6,640	3,080	13,000	8,150	6,140	11,800	14,500	12,400	12,200	9,100
8	7,210	7,010	6,660	3,060	13,300	8,160	6,150	11,700	14,500	12,400	12,200	9,090
9	7,190	7,100	6,640	3,070	16,500	8,160	6,200	11,700	14,500	12,300	12,200	9,080
10	7,210	7,110	6,930	3,060	17,400	8,080	6,190	11,700	14,500	12,300	12,200	9,070
11	7,410	7,110	6,660	3,200	31,700	7,020	6,260	11,700	14,400	12,300	12,200	9,070
12	7,450	7,170	5,630	4,550	41,400	6,490	6,250	12,200	14,400	12,300	12,200	9,070
13	7,450	7,200	5,620	5,880	41,700	6,470	6,310	13,200	14,400	12,400	12,200	9,070
14	7,430	7,200	5,730	5,400	41,700	6,400	6,310	14,400	14,400	12,400	12,200	9,070
15	7,430	6,750	5,790	6,190	41,600	5,950	6,300	11,800	14,400	12,400	12,200	9,070
16	7,430	6,670	5,670	6,160	41,700	5,930	5,510	17,100	14,400	12,300	12,200	9,070
17	7,450	6,640	5,630	6,150	41,500	5,170	6,410	17,100	14,300	12,300	12,200	9,070
18	7,450	6,630	5,160	6,130	41,700	5,940	6,460	17,100	14,300	12,300	12,100	9,060
19	7,430	6,640	5,120	6,250	41,700	5,990	6,460	17,000	14,300	12,300	12,100	9,070
20	7,430	6,750	5,100	9,270	39,600	6,010	6,520	17,100	14,300	12,300	12,100	9,060
21	7,430	6,670	5,120	32,800	28,200	5,990	6,750	17,000	14,300	12,400	12,100	9,060
22	7,430	6,660	5,120	52,600	21,100	5,980	7,380	16,500	14,300	12,400	12,100	9,060
23	7,430	6,630	5,120	52,600	21,000	5,990	9,110	15,900	14,300	12,400	12,100	9,060
24	7,430	6,640	5,190	52,600	20,200	5,980	9,700	15,900	14,400	12,400	12,100	9,060
25	7,450	6,630	5,270	52,600	16,100	6,010	9,700	15,900	14,300	12,400	12,100	9,060
26	7,430	6,640	5,240	52,600	14,700	6,010	10,800	15,800	14,300	12,400	12,100	9,070
27	7,430	6,640	4,670	52,600	14,700	6,010	10,900	15,800	14,300	12,400	12,000	9,070
28	7,450	6,640	4,830	52,400	15,100	6,020	10,900	15,800	14,300	12,500	12,000	9,060
29	7,430	6,630	4,620	31,700	------	6,030	10,800	15,800	14,300	12,500	12,000	9,070
30	7,430	6,670	4,530	27,000	------	6,010	11,800	15,200	13,900	12,500	12,000	9,060
31	7,430	------	4,520	26,200	------	6,020	------	14,500	------	12,500	12,000	------
TOTAL	231,050	204,530	177,000	577,260	701,600	231,510	220,080	440,700	431,200	385,800	378,000	281,820
MEAN	7,453	6,818	5,710	18,620	25,060	7,468	7,336	14,220	14,370	12,450	12,190	9,394
MAX	8,780	7,200	6,930	52,600	41,700	14,600	11,800	17,100	14,500	14,300	12,600	12,000
MIN	7,190	6,630	4,520	3,060	13,000	5,170	5,200	11,700	13,900	12,300	12,000	9,060
AC-FT	458,300	405,700	351,100	1,145M	1,392M	459,200	436,500	874,100	855,300	765,200	749,800	559,000
MEAN†	4,269	4,801	8,728	24,490	23,100	14,270	18,810	14,140	7,158	4,947	4,235	4,447
AC-FT†	262,500	285,700	536,700	1,506M	1,283M	877,500	1,119M	869,300	425,900	304,200	260,400	264,600

CAL YR 1968 TOTAL 3,511,990 MEAN 9,596 MAX 52,500 MIN 4,520 AC-FT 6,966,000 MEAN† 7,073 AC-FT† 5,135,000
WTR YR 1969 TOTAL 4,260,550 MEAN 11,670 MAX 52,600 MIN 3,060 AC-FT 8,451,000 MEAN† 11,670 AC-FT† 8,451,000

† ADJUSTED FOR CHANGE IN CONTENTS AND EVAPORATION FROM SHASTA LAKE AND TRANSBASIN DIVERSION INTO KESWICK RESERVOIR.
M EXPRESSED IN THOUSANDS.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8,480	7,850	7,630	19,600	70,300	8,830	7,080	11,400	9,190	10,300	9,780	9,190
2	7,900	7,850	7,650	16,900	65,200	6,600	7,060	11,400	9,140	10,300	9,720	8,570
3	7,910	7,850	7,650	15,200	58,600	8,180	7,050	11,400	9,030	10,300	9,780	8,600
4	7,860	7,850	7,630	15,300	57,000	8,270	7,060	9,710	9,060	10,300	9,800	8,520
5	7,870	7,860	7,640	15,300	48,900	8,130	7,060	9,600	9,350	10,300	9,800	8,010
6	7,860	7,860	7,640	15,200	47,400	8,060	7,060	9,610	9,750	10,300	9,820	8,070
7	7,860	7,860	7,640	15,200	47,900	8,060	7,050	9,620	9,770	10,300	9,820	8,070
8	7,400	7,860	7,340	15,200	45,900	8,060	7,040	9,580	9,770	10,400	9,800	8,090
9	7,860	7,860	6,830	15,400	40,400	8,050	7,040	9,570	9,800	10,400	9,770	8,090
10	7,860	5,590	6,310	15,300	36,600	7,930	7,070	9,590	9,780	11,100	9,850	8,040
11	7,860	4,240	6,140	15,200	32,500	7,860	7,870	9,570	9,800	11,500	9,400	7,620
12	7,860	5,020	8,190	15,300	28,900	7,800	8,190	9,530	9,780	11,500	9,610	7,580
13	7,870	7,680	12,100	15,400	25,100	7,810	8,380	8,360	9,780	11,700	9,080	7,500
14	7,860	7,690	12,100	18,000	21,400	7,800	8,390	7,910	9,780	11,700	9,260	7,620
15	7,860	7,690	12,000	34,100	18,600	7,800	8,330	7,910	9,750	11,700	9,140	7,620
16	7,860	7,650	12,000	22,700	16,900	7,790	8,320	7,900	9,750	11,700	9,290	7,620
17	7,860	7,670	12,000	36,200	16,500	7,810	8,320	7,910	9,750	11,700	9,300	7,640
18	7,860	7,670	12,400	36,100	16,400	7,810	8,320	7,910	9,750	11,700	9,380	7,640
19	7,860	7,660	12,800	40,900	16,000	7,790	8,340	7,900	10,000	11,700	9,460	7,590
20	7,860	7,670	13,400	50,400	15,600	6,920	8,720	7,900	10,300	11,700	9,290	7,590
21	7,860	7,670	13,900	51,600	15,400	6,800	9,170	7,900	10,300	11,700	9,140	7,610
22	7,860	7,670	23,700	54,200	15,100	6,820	9,710	7,900	10,300	11,800	9,380	7,610
23	7,860	7,680	25,800	38,900	14,900	6,930	10,300	7,930	10,300	11,700	9,340	7,640
24	7,860	7,670	30,600	39,500	14,900	7,090	11,400	8,300	10,300	11,700	9,320	7,620
25	7,860	7,660	35,300	77,200	14,900	7,140	11,400	8,390	10,300	11,000	9,260	7,660
26	7,870	7,650	35,200	76,000	14,700	7,140	11,400	8,460	10,300	11,100	9,260	7,690
27	7,860	7,650	35,100	74,500	14,600	7,140	11,400	8,470	10,300	11,200	9,260	7,480
28	7,850	7,650	35,000	75,800	12,300	7,140	11,400	8,520	10,300	11,100	9,290	7,480
29	7,850	7,650	33,000	74,700	------	7,130	11,400	8,390	10,300	10,300	9,300	7,540
30	7,850	7,650	21,700	74,800	------	7,110	11,400	8,700	10,300	10,400	9,200	7,480
31	7,850	------	19,700	74,700	------	7,070	------	8,680	------	9,820	9,290	------
TOTAL	243,900	223,530	496,090	1,154.8M	842,900	234,870	262,730	275,920	296,080	342,420	293,190	235,080
MEAN	7,868	7,451	16,000	37,250	30,100	7,576	8,758	8,901	9,869	11,050	9,458	7,836
MAX	8,480	7,860	35,300	77,200	70,300	8,830	11,400	11,400	10,300	11,800	9,850	9,190
MIN	7,400	4,240	6,140	15,200	12,300	6,600	7,040	7,900	9,030	9,820	9,080	7,480
AC-FT	483,800	443,400	984,000	2,291M	1,672M	465,900	521,100	547,300	587,300	679,200	581,500	466,300
MEAN†	4,737	4,637	15,450	47,910	15,540	13,650	7,911	6,686	5,425	4,653	4,211	3,850
AC-FT†	291,300	275,900	948,700	2,946M	862,800	839,500	470,700	411,100	322,800	286,100	258,900	229,100

CAL YR 1969 TOTAL 4,611,490 MEAN 12,630 MAX 52,600 MIN 3,060 AC-FT 9,147,000 MEAN† 1,164 AC-FT† 842,600
WTR YR 1970 TOTAL 4,901,510 MEAN 13,430 MAX 77,200 MIN 4,240 AC-FT 9,722,000 MEAN† 11,250 AC-FT† 8,143,000

† ADJUSTED FOR CHANGE IN CONTENTS AND EVAPORATION FROM SHASTA LAKE AND TRANSBASIN DIVERSION INTO KESWICK RESERVOIR.
M EXPRESSED IN THOUSANDS.

11371000 CLEAR CREEK AT FRENCH GULCH, CALIF.

LOCATION.--Lat 40°41'42", long 122°38'08" (unsurveyed), Shasta County, on right bank 1,200 ft downstream from French Gulch, 0.3 mile south of town of French Gulch, and 15 miles northwest of Redding.

DRAINAGE AREA.--115 sq mi.

PERIOD OF RECORD.--July 1950 to September 1970.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,320.60 ft above mean sea level. Prior to Dec. 28, 1959, water-stage recorder at datum 3.00 ft higher.

AVERAGE DISCHARGE.--20 years, 215 cfs (155,800 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (1,500 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Nov. 15, 1965	0215	*2,390	8.23	Feb. 23, 1968	0430	*2,190	8.26	Dec. 21, 1969	0930	4,490	10.63
Nov. 19, 1965	0030	2,060	7.94					Jan. 14, 1970	1230	2,340	8.30
				Dec. 15, 1968	1215	1,910	7.86	Jan. 16, 1970	1300	2,320	8.27
Dec. 5, 1966	0215	*2,850	9.21	Jan. 13, 1969	0900	2,210	8.24	Jan. 23, 1970	2100	*4,920	11.06
Jan. 29, 1967	0900	2,830	9.18	Jan. 21, 1969	0145	2,920	9.02	Jan. 27, 1970	0300	4,410	10.55
Mar. 16, 1967	1245	2,200	8.28	Feb. 11, 1969	1700	*3,310	9.41				

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Sept. 5, 1966	8.5	1969	Oct. 1, 1968	9.4
1967	Oct. 1, 1966	11	1970	Sept.12, 1970	8.0
1968	July 29, 1968	8.0			

Period of record: Maximum discharge, 7,600 cfs Dec. 22, 1964 (gage height, 13.70 ft), from rating curve extended above 3,000 cfs; minimum, 3.9 cfs Sept. 6-8, 1955.

REMARKS.--Records excellent. No large diversion above station. See schematic diagram of Pit and McCloud River basins elsewhere in this report. Water-quality records for the water years 1966-67 are published in reports of the Geological Survey.

REVISIONS.--WSP 1285: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	16	246	219	371	340	598	154	69	30	14	12
2	14	16	230	195	328	321	575	149	69	30	13	11
3	14	19	219	199	375	296	534	144	71	30	13	9.6
4	15	21	213	562	1.270	283	490	140	66	29	12	8.8
5	16	22	208	1.070	1.220	288	462	137	63	27	12	8.5
6	18	21	206	1.110	958	308	444	134	65	25	11	8.6
7	16	29	198	926	755	320	431	130	70	26	10	9.2
8	15	52	186	825	611	498	413	125	66	27	9.8	9.9
9	15	30	174	730	508	975	404	123	59	27	10	10
10	15	26	161	593	436	1.160	408	121	54	28	10	9.8
11	15	27	154	485	375	975	387	116	53	27	9.8	10
12	14	93	145	400	338	835	371	111	51	25	10	11
13	13	212	135	353	306	885	337	107	49	25	9.6	13
14	15	981	128	325	289	895	311	104	45	25	9.3	16
15	18	1.520	122	320	270	845	295	102	41	25	9.5	15
16	18	510	116	340	254	745	289	100	42	24	9.8	13
17	18	725	111	335	245	635	282	96	40	23	10	12
18	19	1.550	106	314	242	566	268	91	39	22	10	15
19	19	1.490	101	291	297	516	249	87	37	21	9.7	17
20	18	755	97	268	284	467	234	85	38	21	9.3	15
21	15	476	96	248	278	440	222	84	38	20	8.6	14
22	15	340	93	237	294	413	211	82	39	18	8.7	12
23	15	324	89	221	359	395	201	80	40	18	8.8	12
24	15	548	97	207	395	395	194	77	39	17	9.3	12
25	13	584	93	195	400	422	189	74	36	16	9.6	12
26	15	494	87	186	383	458	183	72	34	15	10	13
27	16	408	91	179	363	498	176	71	33	15	10	12
28	16	346	490	172	349	534	171	70	32	15	9.2	12
29	18	303	462	322	------	562	165	70	31	14	10	10
30	15	272	329	467	------	580	159	74	30	14	11	10
31	16	------	265	408	------	588	------	74	------	15	14	------
TOTAL	489	12.210	5,448	12.702	12.553	17,438	9,653	3,184	1.439	694	321.0	353.4
MEAN	15.8	407	176	410	448	563	322	103	48.0	22.4	10.4	11.8
MAX	19	1,550	490	1.110	1.270	1.160	598	154	71	30	14	17
MIN	13	16	87	172	242	283	159	70	30	14	8.6	8.5
AC-FT	970	24.220	10,810	25.190	24.900	34.590	19,150	6.320	2.850	1.380	637	701

CAL YR 1965 TOTAL 75.336.0 MEAN 206 MAX 1.670 MIN 13 AC-FT 149.400
WTR YR 1966 TOTAL 76.484.4 MEAN 210 MAX 1.550 MIN 8.5 AC-FT 151.700

11371000 CLEAR CREEK AT FRENCH GULCH, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	13	251	108	1,460	209	397	414	226	69	30	17
2	12	15	573	103	1,060	211	396	409	241	67	29	16
3	12	16	675	99	859	204	426	423	202	64	28	17
4	12	15	1,170	97	780	193	434	453	189	62	28	16
5	12	16	2,020	97	754	184	493	498	186	61	27	17
6	12	25	964	90	712	176	1,230	527	181	60	27	16
7	12	28	602	88	661	171	1,240	574	172	58	27	16
8	12	23	422	86	614	169	975	663	164	56	26	17
9	12	21	348	84	568	169	851	686	157	55	25	17
10	12	21	379	82	549	242	998	605	150	54	25	18
11	12	24	373	80	526	269	1,220	529	145	50	24	18
12	12	43	375	78	507	256	1,060	466	143	48	23	17
13	13	64	462	77	503	249	943	423	137	47	23	16
14	15	130	544	77	460	256	846	404	131	45	22	16
15	15	400	440	75	408	295	748	411	125	44	22	15
16	15	418	359	73	368	1,630	660	437	120	43	21	15
17	15	157	301	71	335	1,370	700	441	114	47	20	16
18	13	99	262	71	312	941	680	429	110	44	20	21
19	13	160	233	69	293	747	637	404	108	42	19	19
20	15	1,080	215	135	273	836	594	380	107	42	18	17
21	15	624	197	367	256	822	565	359	105	41	18	16
22	17	434	180	280	243	746	574	339	99	39	18	14
23	17	273	170	206	236	793	587	319	95	38	18	14
24	17	196	158	230	238	720	590	299	92	37	17	14
25	16	154	150	200	245	637	579	280	87	36	19	15
26	16	130	140	233	225	566	579	262	84	35	19	15
27	16	112	132	327	216	505	563	247	81	32	21	14
28	17	120	128	1,440	211	474	525	237	79	33	19	15
29	17	150	122	2,470	------	426	484	226	75	35	18	16
30	16	146	118	1,910	------	416	444	216	71	32	18	16
31	16	------	112	2,110	------	407	------	209	------	29	17	------
TOTAL	437	5,107	12,575	11,513	13,872	15,289	21,018	12,569	3,976	1,445	686	486
MEAN	14.1	170	406	371	495	493	701	405	133	46.6	22.1	16.2
MAX	17	1,080	2,020	2,470	1,460	1,630	1,240	686	241	69	30	21
MIN	11	13	112	69	211	169	396	209	71	29	17	14
AC-FT	867	10,130	24,940	22,840	27,520	30,330	41,690	24,930	7,890	2,870	1,360	964

CAL YR 1966 TOTAL 76,456.4 MEAN 209 MAX 2,020 MIN 8.5 AC-FT 151,700
WTR YR 1967 TOTAL 98,973.0 MEAN 271 MAX 2,470 MIN 11 AC-FT 196,300

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	22	40	60	103	415	179	72	41	17	10	11
2	36	22	48	55	143	371	168	71	41	17	20	11
3	45	22	75	50	232	328	157	68	42	16	14	10
4	28	22	148	48	256	303	151	67	40	15	11	10
5	30	23	223	46	270	289	146	66	45	14	11	11
6	28	25	88	43	319	270	139	66	49	14	10	10
7	26	24	79	42	391	256	133	64	43	13	10	10
8	25	25	67	43	375	240	129	62	39	13	11	9.8
9	24	28	57	45	359	224	123	61	37	12	11	9.8
10	24	28	55	58	339	208	120	60	36	12	10	10
11	23	29	57	53	312	199	119	60	34	12	9.2	10
12	23	28	55	48	284	229	116	59	33	11	8.8	10
13	23	29	49	94	262	230	112	63	33	11	9.3	11
14	22	68	44	490	239	230	108	66	32	12	11	12
15	22	41	45	656	230	230	107	60	31	12	12	13
16	22	33	44	413	256	312	105	56	28	11	12	12
17	21	31	42	266	624	339	102	54	26	11	13	11
18	20	30	45	203	647	303	100	53	25	11	13	10
19	21	30	42	162	895	273	98	58	24	10	18	11
20	21	29	39	141	1,440	252	94	72	23	10	25	11
21	24	29	39	150	1,500	241	93	64	23	9.7	27	12
22	28	28	39	178	1,670	232	91	62	23	9.6	23	11
23	26	28	40	178	2,030	221	88	57	22	8.9	20	11
24	25	28	47	164	1,500	212	88	56	21	8.9	17	11
25	24	28	59	152	1,080	219	85	60	20	9.0	17	10
26	24	28	76	138	818	207	82	55	19	8.9	21	10
27	24	28	95	124	658	195	79	51	18	8.5	21	10
28	23	30	98	120	552	185	77	47	17	8.2	18	9.7
29	23	43	93	135	490	180	75	46	17	8.0	15	9.3
30	23	46	77	122	------	178	73	44	17	8.1	13	9.4
31	21	------	66	108	------	174	------	43	------	8.1	12	------
TOTAL	767	905	2,071	4,585	18,274	7,745	3,337	1,843	899	349.9	453.3	317.0
MEAN	24.7	30.2	66.8	148	630	250	111	59.5	30.0	11.3	14.6	10.6
MAX	45	68	223	656	2,030	415	179	72	49	17	27	13
MIN	18	22	39	42	103	174	73	43	17	8.0	8.8	9.3
AC-FT	1,520	1,800	4,110	9,090	36,250	15,360	6,620	3,660	1,780	694	899	629

CAL YR 1967 TOTAL 84,597.0 MEAN 232 MAX 2,470 MIN 14 AC-FT 167,800
WTR YR 1968 TOTAL 41,546.2 MEAN 114 MAX 2,030 MIN 8.0 AC-FT 82,410

11371000 CLEAR CREEK AT FRENCH GULCH, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	24	37	107	387	757	970	438	128	61	22	13
2	9.5	36	35	116	346	641	890	412	123	58	21	12
3	9.9	43	33	153	317	568	804	394	120	56	19	12
4	11	32	33	251	305	521	714	373	118	55	19	12
5	11	30	31	365	311	508	873	363	115	53	19	12
6	12	28	31	413	333	518	820	377	113	51	20	12
7	12	27	33	406	306	500	727	393	110	48	20	12
8	12	25	62	357	362	469	681	399	111	46	20	13
9	12	24	64	299	723	441	663	397	117	45	18	13
10	12	24	484	250	870	410	645	389	122	45	16	13
11	15	26	309	260	2,620	381	658	377	119	43	16	13
12	34	38	157	943	2,270	367	717	364	111	41	16	13
13	29	31	119	1,940	1,390	348	713	348	101	40	16	13
14	23	31	168	1,110	1,030	341	649	325	99	39	16	13
15	24	37	1,150	684	977	352	600	294	97	38	15	13
16	22	38	559	497	886	397	581	272	88	38	16	14
17	20	41	296	392	788	455	598	257	84	36	15	15
18	19	57	201	342	765	536	609	246	83	35	15	16
19	18	60	156	498	740	537	581	235	99	33	15	19
20	19	45	126	1,670	684	532	576	220	99	33	15	20
21	19	37	106	2,500	619	521	589	208	86	30	14	24
22	19	34	100	1,560	567	553	629	196	80	29	14	23
23	19	32	99	1,020	580	616	672	187	77	29	13	21
24	18	34	159	755	586	627	592	180	75	29	14	21
25	19	41	194	637	566	623	518	174	73	27	14	20
26	19	35	176	1,080	522	647	475	176	71	27	13	19
27	18	34	148	900	499	749	463	174	69	26	13	18
28	19	32	147	723	716	868	477	159	69	25	13	18
29	23	31	136	590	------	972	503	149	66	25	13	18
30	31	36	123	497	------	1,030	465	141	63	22	13	19
31	25	------	114	424	------	1,050	------	135	------	22	13	------
TOTAL	562.8	1,043	5,586	21,739	21,065	17,835	19,452	8,752	2,886	1,185	496	474
MEAN	18.2	34.8	180	701	752	575	648	282	96.2	38.2	16.0	15.8
MAX	34	60	1,150	2,500	2,620	1,050	970	438	128	61	22	24
MIN	9.4	24	31	107	305	341	463	135	63	22	13	12
AC-FT	1,120	2,070	11,080	43,120	41,780	35,380	38,580	17,360	5,720	2,350	984	940

CAL YR 1968 TOTAL 44,995.0 MEAN 123 MAX 2,030 MIN 8.0 AC-FT 89,250
WTR YR 1969 TOTAL 101,075.8 MEAN 277 MAX 2,620 MIN 9.4 AC-FT 200,500

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	22	25	215	816	399	197	103	49	33	12	8.7
2	18	22	25	197	708	364	191	99	47	30	12	9.3
3	19	22	25	180	632	340	185	96	45	27	11	9.2
4	19	24	25	170	576	402	180	94	42	26	9.5	9.2
5	20	45	25	160	532	413	175	94	42	24	10	10
6	20	38	25	148	494	410	172	94	41	23	11	11
7	20	46	25	143	458	494	168	94	40	22	10	11
8	22	128	33	162	434	644	162	96	46	21	11	10
9	24	64	30	676	410	608	160	96	63	20	11	9.7
10	23	43	35	1,150	388	556	153	92	56	18	10	9.1
11	23	35	130	820	371	528	150	94	51	18	9.6	8.3
12	22	32	779	734	416	508	148	96	48	18	9.4	8.0
13	22	31	700	1,040	476	483	158	91	48	18	9.6	8.4
14	23	29	584	2,080	476	476	155	85	59	17	8.7	9.3
15	35	29	415	1,630	448	452	148	79	52	16	9.0	10
16	46	29	249	2,160	525	424	143	76	48	15	9.4	9.6
17	40	28	180	2,000	685	399	138	74	46	16	9.3	9.6
18	29	27	194	1,510	608	371	134	73	43	15	9.1	9.6
19	25	27	563	1,300	539	350	132	72	39	14	8.8	9.9
20	24	27	1,110	1,330	494	332	129	71	36	13	9.2	10
21	23	27	3,060	2,080	455	315	127	70	34	13	9.4	10
22	22	26	1,230	2,640	416	298	125	66	34	12	9.5	10
23	23	27	984	4,030	388	284	121	64	32	12	8.8	10
24	23	26	816	4,070	364	270	118	62	32	13	9.0	10
25	23	26	658	2,570	340	252	116	60	30	13	9.0	9.7
26	23	26	546	2,320	322	242	116	59	30	12	9.1	9.5
27	23	26	448	3,650	308	236	116	59	32	12	9.1	9.2
28	23	25	374	2,280	357	227	114	59	44	11	9.0	9.4
29	23	25	318	1,610	------	218	110	56	42	12	9.1	9.4
30	23	25	273	1,220	------	215	107	52	35	13	9.5	8.9
31	23	------	239	972	------	209	------	51	------	12	8.9	------
TOTAL	744	1,007	14,123	45,247	13,436	11,719	4,348	2,427	1,286	539	300.0	286.0
MEAN	24.0	33.6	456	1,460	480	378	145	78.3	42.9	17.4	9.68	9.53
MAX	46	128	3,060	4,070	816	644	197	103	63	33	12	11
MIN	18	22	25	143	308	209	107	51	30	11	8.7	8.0
AC-FT	1,480	2,000	28,010	89,750	26,650	23,240	8,620	4,810	2,550	1,070	595	567

CAL YR 1969 TOTAL 109,758.0 MEAN 301 MAX 3,060 MIN 12 AC-FT 217,700
WTR YR 1970 TOTAL 95,462.0 MEAN 262 MAX 4,070 MIN 8.0 AC-FT 189,300

11371600 SPRING CREEK POWERPLANT AT KESWICK, CALIF.

LOCATION.--Lat 40°37'41", long 122°27'59", in NE¼SE¼ sec.18, T.32 N., R.5 W., Shasta County, at powerplant on Spring Creek, 0.4 mile northwest of Keswick and 4.9 miles northwest of Redding.

PERIOD OF RECORD.--December 1963 to September 1970.

GAGE.--Discharge computed from powerplant output.

EXTREMES.--Period of record: Maximum daily discharge, 4,280 cfs Jan. 22, 1969; minimum daily, 10 cfs Dec. 15, 1963.

REMARKS.--Water is released from Whiskeytown Lake (see station 11371700) at lat 40°37'03", long 122°31'31", through a tunnel to powerplant and then into Keswick Reservoir. See schematic diagram of Pit and McCloud River basins elsewhere in this report.

COOPERATION.--Records furnished by Bureau of Reclamation, rounded to Geological Survey standards.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,370	874	961	1,370	1,540	984	1,160	3,080	3,260	2,910	2,930	2,950
2	1,440	930	952	1,380	1,790	1,090	1,170	2,950	3,260	2,840	3,010	2,990
3	1,420	930	1,100	1,230	1,790	1,060	1,160	3,140	3,070	2,840	2,920	3,000
4	1,410	930	1,180	1,090	1,800	993	1,520	3,140	3,080	2,920	3,000	3,200
5	1,420	928	861	1,360	2,430	980	1,880	3,230	2,850	2,900	2,910	3,130
6	1,420	963	1,070	2,290	3,590	1,060	1,550	3,410	2,740	2,900	2,920	1,680
7	1,450	968	1,160	2,980	3,610	1,060	1,560	3,360	2,920	2,910	2,920	1,650
8	1,460	968	1,200	2,560	2,470	979	2,280	3,420	2,930	2,900	2,920	1,650
9	1,450	965	1,030	858	2,960	1,410	2,250	3,450	3,240	2,910	2,920	1,650
10	1,470	947	1,200	1,460	3,000	2,040	2,250	3,420	3,180	2,910	2,920	1,650
11	1,460	937	948	2,170	2,560	1,830	2,180	3,320	2,920	2,910	2,920	1,650
12	1,460	961	1,120	1,820	2,560	1,900	2,110	3,310	3,010	2,910	2,920	1,530
13	1,420	953	1,210	1,280	1,800	1,890	2,040	3,370	2,940	2,910	2,850	1,640
14	1,430	950	1,200	1,130	904	1,880	1,670	3,360	2,870	2,910	2,920	1,670
15	1,420	950	1,200	1,610	830	1,880	1,720	3,300	2,850	2,910	2,950	1,660
16	1,400	986	1,170	1,580	602	1,870	1,900	3,300	2,840	2,920	2,910	1,580
17	1,420	1,190	1,070	1,710	653	1,880	1,900	3,310	2,840	2,890	3,010	1,650
18	1,410	1,260	1,090	1,600	899	1,140	1,830	3,310	2,850	2,880	3,090	1,650
19	1,410	1,250	1,020	1,400	1,040	998	1,810	3,310	2,920	2,920	3,080	1,650
20	1,410	1,800	1,070	1,870	936	1,100	1,850	3,310	2,920	2,910	3,010	1,650
21	1,410	2,000	980	1,540	1,060	1,180	1,560	3,290	2,920	2,920	2,940	1,650
22	1,410	2,010	993	1,550	1,070	1,190	1,470	3,300	2,950	2,920	2,930	1,660
23	1,410	3,000	1,020	1,640	1,110	1,180	1,450	3,310	2,920	2,920	2,930	2,010
24	1,410	2,940	808	1,620	1,190	1,180	1,490	3,230	2,860	2,910	3,020	3,010
25	1,460	2,960	895	1,010	1,460	1,180	1,520	3,290	2,770	2,920	2,940	3,010
26	1,320	2,970	1,110	723	1,460	1,180	1,520	3,290	2,750	2,890	2,930	3,110
27	1,320	2,930	973	816	1,410	1,190	1,510	3,290	2,750	2,900	2,920	3,110
28	1,320	2,930	977	812	1,260	1,170	1,440	3,290	2,910	2,890	2,980	3,070
29	1,280	975	1,380	898	------	1,180	1,430	3,300	2,910	2,930	2,940	3,080
30	1,290	952	1,350	1,060	------	1,120	1,820	3,290	2,890	2,770	3,000	3,100
31	1,200	------	1,370	1,350	------	1,160	------	3,260	------	2,920	3,010	------
TOTAL	43,380	44,307	33,668	45,767	47,784	40,934	51,000	101,940	88,120	89,900	91,570	66,690
MEAN	1,399	1,477	1,086	1,476	1,707	1,320	1,700	3,288	2,937	2,900	2,954	2,223
MAX	1,470	3,000	1,380	2,980	3,610	2,040	2,280	3,450	3,260	2,930	3,090	3,200
MIN	1,200	874	808	723	602	979	1,160	2,950	2,740	2,770	2,850	1,530
AC-FT	86,040	87,880	66,780	90,780	94,780	81,190	101,200	202,200	174,800	178,300	181,600	132,300

CAL YR 1965 TOTAL 657,092 MEAN 1,800 MAX 3,540 MIN 72 AC-FT 1,303,000
WTR YR 1966 TOTAL 745,060 MEAN 2,041 MAX 3,610 MIN 602 AC-FT 1,478,000

11371600 SPRING CREEK POWERPLANT AT KESWICK, CALIF.--CONTINUED

DISCHARGF, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,030	1,660	1,550	754	3,580	864	2,050	999	2,950	2,920	2,800	3,000
2	3,040	1,950	1,530	753	3,590	863	2,060	948	2,990	3,520	2,810	2,990
3	3,040	2,720	1,340	756	3,590	866	2,060	1,030	2,880	3,530	2,860	3,010
4	3,040	2,130	617	762	3,600	864	2,060	1,380	2,740	2,780	2,740	3,060
5	3,030	2,910	632	753	3,610	791	2,060	1,260	2,920	3,080	2,950	3,040
6	3,030	2,470	600	743	3,620	838	2,060	1,290	2,940	3,010	2,940	3,080
7	3,030	2,340	614	753	3,630	821	2,060	1,290	2,930	3,050	2,820	3,110
8	3,040	2,230	614	758	1,910	813	2,050	1,360	3,520	2,860	2,890	3,120
9	3,030	3,070	1,550	744	1,460	859	2,060	1,640	3,500	2,780	2,890	3,130
10	3,040	3,390	1,850	758	1,430	885	1,710	2,100	3,520	2,840	2,810	3,190
11	3,030	3,400	1,850	758	1,420	887	1,700	1,310	3,520	2,780	2,930	3,260
12	3,070	3,400	2,020	760	1,380	869	1,700	1,230	3,530	2,850	3,050	3,250
13	3,060	3,530	2,010	759	1,430	879	1,690	1,210	3,290	2,850	2,900	3,260
14	3,070	3,520	2,380	755	1,430	882	1,840	1,300	3,530	2,850	2,760	3,250
15	3,000	3,520	3,590	754	1,430	894	2,000	994	3,290	2,850	2,750	3,310
16	3,060	3,520	3,610	754	1,420	905	2,080	1,140	3,210	2,880	3,150	3,360
17	3,060	3,530	3,620	747	1,420	1,580	2,040	1,670	3,200	2,890	2,750	3,240
18	3,050	3,540	3,640	727	1,070	1,890	1,390	1,610	3,260	2,890	2,990	3,290
19	3,070	3,550	3,110	749	1,160	1,860	2,900	1,620	3,270	2,880	2,910	3,240
20	3,060	3,550	1,050	752	987	1,860	2,780	1,010	3,520	2,870	2,980	3,280
21	1,830	3,510	1,050	750	850	1,870	2,750	1,030	3,520	2,880	2,880	3,280
22	1,450	3,550	1,030	744	880	1,860	2,610	1,020	2,940	2,880	2,940	3,370
23	1,440	3,560	1,060	744	874	1,860	2,390	994	3,520	2,870	2,980	3,390
24	543	3,580	754	752	872	1,860	2,680	987	3,520	2,880	2,930	3,390
25	543	3,600	753	736	873	1,880	2,650	1,760	2,880	2,890	2,940	3,400
26	879	3,600	685	737	866	1,850	1,360	2,420	3,120	2,880	3,080	3,390
27	1,150	3,610	687	730	895	1,860	1,010	2,420	3,520	2,890	3,020	3,330
28	1,170	3,630	601	740	863	2,040	1,070	2,600	3,520	2,890	3,150	3,320
29	1,380	3,640	600	1,780	------	1,980	1,070	2,960	3,070	2,730	3,140	3,370
30	1,460	3,030	607	2,380	------	2,040	1,130	2,960	3,520	2,730	2,980	2,920
31	1,540	------	607	3,580	------	2,040	------	2,950	------	2,730	3,050	------
TOTAL	74,265	95,240	46,211	28,722	50,140	42,110	59,070	48,492	97,640	90,210	90,770	96,630
MEAN	2,396	3,175	1,491	927	1,791	1,358	1,969	1,564	3,255	2,910	2,928	3,221
MAX	3,070	3,640	3,640	3,580	3,630	2,040	2,900	2,960	3,530	3,530	3,150	3,400
MIN	543	1,660	600	727	850	791	1,010	948	2,740	2,730	2,740	2,920
AC-FT	147,300	188,900	91,660	56,970	99,450	83,530	117,200	96,180	193,700	178,900	180,000	191,700

CAL YR 1966 TOTAL 839,421 MEAN 2,300 MAX 3,640 MIN 543 AC-FT 1,665,000
WTR YR 1967 TOTAL 819,500 MEAN 2,245 MAX 3,640 MIN 543 AC-FT 1,625,000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,570	2,350	1,500	1,340	1,050	2,000	679	3,410	3,490	3,900	3,950	1,130
2	2,560	1,430	1,520	1,370	1,010	1,970	682	3,470	3,560	3,880	3,970	1,280
3	2,670	1,170	1,830	1,370	1,090	2,000	708	3,780	3,580	3,790	3,970	1,900
4	2,930	1,270	1,800	1,370	1,090	2,000	671	3,770	3,520	3,780	3,950	1,920
5	2,590	1,330	1,600	1,180	1,080	2,000	843	3,730	3,500	3,810	3,920	1,910
6	2,450	1,060	1,630	992	1,170	2,020	833	3,770	3,480	3,800	3,910	1,910
7	2,550	1,110	1,680	988	1,330	2,000	859	3,050	3,500	3,880	3,890	1,940
8	2,530	1,130	1,650	1,010	1,620	2,060	862	3,020	3,530	3,930	3,890	1,910
9	2,560	1,130	1,640	1,030	1,240	2,020	1,210	3,020	3,530	3,910	3,910	1,860
10	2,570	1,180	1,640	1,190	1,220	2,060	1,130	3,060	3,520	3,830	3,890	1,930
11	2,540	1,200	1,620	1,070	1,270	2,020	1,180	3,000	3,560	3,840	3,970	2,030
12	2,510	1,200	1,650	1,070	1,310	2,020	1,270	3,000	3,530	3,840	3,930	1,900
13	2,520	1,180	1,650	1,060	1,310	2,050	1,360	3,010	3,540	3,910	3,930	1,900
14	2,510	1,300	1,600	1,200	1,300	2,040	1,250	3,010	3,530	3,900	3,930	824
15	2,410	1,320	1,650	1,210	1,310	2,060	1,560	3,020	3,550	3,900	3,880	837
16	2,450	1,330	1,560	1,170	1,150	1,190	1,770	3,010	3,570	3,820	3,870	833
17	2,390	1,610	1,630	1,490	1,380	1,180	2,620	2,990	3,570	3,840	3,380	816
18	2,370	1,750	1,520	1,500	1,400	1,030	2,830	3,040	3,610	3,950	2,900	827
19	2,460	1,690	1,640	1,510	1,430	1,310	3,260	2,950	3,810	3,990	2,770	843
20	2,550	1,640	1,710	1,510	1,450	1,020	3,390	2,990	3,810	3,880	1,510	829
21	2,450	1,700	1,640	1,460	1,650	917	3,330	2,990	3,810	3,880	1,420	829
22	2,530	1,770	1,660	1,460	1,550	959	3,420	2,950	3,810	3,890	1,360	831
23	2,580	1,760	1,620	1,500	1,960	904	3,430	2,940	3,800	3,920	1,330	831
24	2,550	1,770	1,630	1,490	2,110	947	3,390	3,190	3,800	3,910	1,340	820
25	2,600	1,710	1,580	1,040	2,010	773	3,400	3,510	3,790	3,910	1,190	819
26	2,600	1,710	1,600	1,050	2,030	737	3,440	3,530	3,790	3,910	1,350	865
27	2,890	1,690	1,620	1,050	2,060	715	3,530	3,520	3,800	3,910	1,690	1,470
28	2,540	1,700	1,600	1,020	2,010	735	3,610	3,520	3,810	3,910	1,360	1,480
29	2,620	1,700	1,620	1,070	2,000	739	3,450	3,510	3,810	3,980	1,210	1,470
30	2,820	1,700	1,660	1,060	------	696	3,420	3,510	3,790	3,930	1,040	705
31	2,480	------	1,510	1,020	------	683	------	3,510	------	3,940	1,150	------
TOTAL	79,350	44,590	50,460	37,850	42,590	44,855	63,387	100,780	109,300	120,470	87,760	39,449
MEAN	2,560	1,486	1,628	1,221	1,469	1,447	2,113	3,251	3,643	3,886	2,831	1,315
MAX	2,930	2,350	1,830	1,510	2,110	2,060	3,610	3,780	3,810	3,990	3,970	2,030
MIN	2,370	1,060	1,500	988	1,010	683	671	2,940	3,480	3,780	1,040	705
AC-FT	157,400	88,440	100,100	75,080	84,480	88,970	125,700	199,900	216,800	239,000	174,100	78,250

CAL YR 1967 TOTAL 778,184 MEAN 2,132 MAX 3,630 MIN 727 AC-FT 1,544,000
WTR YR 1968 TOTAL 820,841 MEAN 2,243 MAX 3,990 MIN 671 AC-FT 1,628,000

11371600 SPRING CREEK POWERPLANT AT KESWICK, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	595	1,590	998	1,140	1,030	277	2,000	411	4,040	3,540	2,900	2,870
2	709	1,660	1,010	843	979	274	2,060	687	4,040	3,010	2,540	3,090
3	688	1,770	989	876	920	281	667	552	4,050	2,940	2,240	3,530
4	684	1,820	1,000	763	514	269	664	1,250	4,050	3,050	2,390	3,520
5	792	1,820	997	751	635	283	956	667	4,050	2,960	2,830	3,400
6	687	1,830	1,020	898	1,110	280	669	822	4,050	2,750	2,780	3,400
7	693	1,940	1,230	1,020	1,140	414	575	825	4,050	2,760	2,740	3,410
8	681	1,950	1,260	1,010	1,190	1,080	639	682	4,050	2,890	2,740	3,410
9	665	1,950	1,260	958	1,550	993	370	750	4,050	3,070	3,490	3,420
10	684	1,950	1,540	970	1,950	1,010	264	1,230	4,050	2,930	2,800	3,420
11	795	1,960	1,440	1,020	2,480	979	560	1,100	4,140	2,810	2,800	3,350
12	681	1,960	1,990	439	2,660	1,010	988	531	4,060	3,020	2,810	3,630
13	680	1,740	2,300	698	2,900	978	1,030	366	4,060	3,070	2,820	3,670
14	801	937	1,810	3,200	2,890	930	1,050	372	4,060	3,070	3,040	3,680
15	796	972	3,150	3,360	2,790	655	522	389	4,110	3,050	3,040	3,810
16	803	926	2,880	3,180	2,300	644	451	390	4,020	3,070	2,840	2,850
17	1,070	860	1,350	2,820	2,850	770	677	1,460	4,050	3,070	2,820	2,840
18	897	841	574	1,500	2,730	836	638	1,470	4,060	3,050	2,850	2,840
19	895	919	430	1,110	3,080	915	647	2,020	3,920	3,070	2,850	2,880
20	888	846	589	1,260	3,850	1,090	1,070	2,020	3,500	2,590	2,950	2,880
21	899	1,020	686	4,140	1,910	1,090	1,180	2,050	3,620	2,310	2,920	2,860
22	821	994	568	4,280	1,410	1,060	816	2,380	3,900	2,940	2,920	2,890
23	771	996	1,220	4,160	1,630	1,060	856	2,470	3,780	3,020	2,790	2,840
24	683	987	1,260	4,210	1,680	999	1,090	3,690	3,650	2,960	2,910	2,850
25	697	1,000	1,350	2,110	1,660	1,140	987	3,890	3,370	2,970	2,920	2,840
26	750	1,010	925	1,150	1,670	1,150	1,050	3,640	3,270	2,970	2,920	2,900
27	681	986	860	2,680	1,260	1,160	1,210	4,040	3,520	2,960	2,800	2,890
28	710	1,010	706	2,690	294	1,480	1,230	4,050	3,520	2,970	2,800	2,840
29	716	1,010	899	1,170	------	1,410	722	4,060	3,530	2,980	2,800	2,850
30	709	1,010	700	1,490	------	1,740	441	4,050	3,360	2,920	2,800	2,850
31	714	------	1,000	1,610	------	2,010	------	4,050	------	2,940	2,800	------
TOTAL	23,335	40,264	37,991	57,506	51,062	28,267	26,079	56,364	115,980	91,710	87,650	94,510
MEAN	753	1,342	1,226	1,855	1,824	912	869	1,818	3,866	2,958	2,827	3,150
MAX	1,070	1,960	3,150	4,280	3,850	2,010	2,060	4,060	4,140	3,540	3,490	3,810
MIN	595	841	430	439	294	269	264	366	3,270	2,310	2,240	2,840
AC-FT	46,280	79,860	75,360	114,100	101,300	56,070	51,730	111,800	230,000	181,900	173,900	187,500

CAL YR 1968 TOTAL 748,031 MEAN 2,044 MAX 3,990 MIN 430 AC-FT 1,484,000
WTR YR 1969 TOTAL 710,718 MEAN 1,947 MAX 4,280 MIN 264 AC-FT 1,410,000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	897	467	311	726	2,200	3,400	24	3,920	2,000	3,190	3,160	2,000
2	778	475	238	841	2,560	3,410	285	3,620	2,010	3,190	3,160	2,000
3	1,120	470	248	726	3,400	3,410	2,090	3,800	1,980	3,190	3,160	2,000
4	1,120	479	234	726	3,400	3,400	24	3,490	1,970	3,190	3,160	2,000
5	1,110	807	239	720	3,400	3,400	1,340	3,440	1,940	3,190	3,160	2,000
6	1,110	479	252	656	3,400	3,410	2,460	3,470	1,940	3,080	3,040	2,000
7	1,080	471	351	808	3,400	3,410	4,050	3,470	1,930	3,100	3,040	2,000
8	1,090	468	342	463	3,400	3,410	4,110	3,440	2,010	2,940	3,040	2,000
9	1,090	477	352	1,130	3,400	3,400	4,080	3,310	2,010	2,990	2,940	2,000
10	1,080	565	346	2,310	3,400	3,400	3,690	2,270	2,010	2,990	2,910	2,000
11	1,080	384	1,160	2,370	3,400	3,400	3,570	2,290	2,010	2,980	2,910	2,000
12	1,090	583	1,990	2,350	3,400	3,400	3,270	2,360	2,040	3,000	2,850	2,000
13	512	603	1,980	1,170	3,400	3,400	3,340	2,230	2,040	3,010	2,900	2,000
14	514	603	1,690	1,310	3,400	3,400	3,320	2,200	2,040	3,100	3,040	2,000
15	478	591	1,130	3,250	3,380	3,400	3,270	1,920	2,100	2,980	3,000	2,000
16	509	590	562	3,220	3,380	3,400	3,250	2,100	2,030	2,980	2,910	2,010
17	500	591	600	3,220	3,370	3,400	3,070	2,170	2,090	3,040	2,900	2,010
18	173	583	672	3,220	3,380	3,400	3,160	2,030	2,080	3,080	2,900	2,010
19	24	582	1,120	3,220	3,390	3,410	3,120	2,040	2,090	3,080	2,900	2,010
20	24	575	1,180	3,220	3,400	3,410	3,150	2,100	2,030	3,080	2,970	2,010
21	24	603	2,050	2,640	3,380	3,420	3,170	2,140	1,990	3,080	2,970	2,010
22	24	600	3,460	3,160	3,380	3,420	3,160	2,040	1,990	3,080	2,980	1,520
23	24	606	3,240	2,630	3,400	3,420	3,180	2,020	2,000	3,070	2,970	2,020
24	24	602	3,240	2,420	3,400	3,430	3,250	2,030	1,990	3,230	2,970	2,020
25	49	635	2,140	1,710	3,390	3,440	3,510	2,020	1,970	3,080	2,970	2,020
26	277	649	2,270	382	3,390	3,440	3,620	1,970	1,990	3,070	2,950	2,020
27	405	638	2,110	337	3,400	3,440	3,800	2,000	2,000	3,220	2,970	2,020
28	1,240	635	728	2,220	3,400	3,450	3,790	2,090	2,000	3,230	2,970	2,040
29	487	655	732	3,400	------	3,450	3,940	2,100	2,000	3,180	2,970	2,040
30	468	592	755	3,110	------	3,460	3,850	1,980	2,000	3,160	2,900	2,040
31	477	------	722	2,950	------	535	------	2,020	------	3,150	2,060	------
TOTAL	18,878	17,058	36,444	60,615	93,000	102,975	89,943	78,080	60,280	95,930	91,730	59,800
MEAN	609	569	1,176	1,955	3,321	3,322	2,998	2,519	2,009	3,095	2,959	1,993
MAX	1,240	807	3,460	3,400	3,400	3,460	4,110	3,920	2,100	3,230	3,160	2,040
MIN	24	384	234	337	2,200	535	24	1,920	1,930	2,940	2,060	1,520
AC-FT	37,440	33,830	72,290	120,200	184,500	204,300	178,400	154,900	119,600	190,300	181,900	118,600

CAL YR 1969 TOTAL 681,508 MEAN 1,867 MAX 4,280 MIN 24 AC-FT 1,352,000
WTR YR 1970 TOTAL 804,733 MEAN 2,205 MAX 4,110 MIN 24 AC-FT 1,596,000

11371700 WHISKEYTOWN LAKE NEAR IGO, CALIF.

LOCATION.--Lat 40°37'03", long 122°31'31" (unsurveyed), Shasta County, at outlet works to Spring Creek powerplant on Clear Creek, 1.8 miles downstream from Whiskey Creek and 7.8 miles northeast of Igo.

DRAINAGE AREA.--*200 sq mi.*

PERIOD OF RECORD.--May 1963 to September 1970. Prior to October 1960, published as Whiskeytown Reservoir near Igo.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Bureau of Reclamation).

EXTREMES.--Maximums and minimums (contents in acre-feet, elevation in feet) for the water years 1966-70 are contained in the following table:

	Maximum			*Minimum*		
Wtr yr	Date	Contents	Elevation	Date	Contents	Elevation
1966	Nov. 19, 1965	244,400	1,211.02	Feb. 13, 1966	194,200	1,194.54
1967	Sept.21, 1967	238,900	1,209.31	Jan. 4, 5, 1967	189,400	1,192.84
1968	Oct. 3, 26, 1967	238,500	1,209.19	Mar. 29, 1968	201,800	1,197.18
1969	Aug. 8, 1969	239,700	1,209.55	Feb. 3, 1969	178,700	1,188.97
1970	Jan. 27, 1970	251,200	1,213.11	Jan. 6, 1970	201,400	1,197.04

Period of record: Maximum contents, 251,200 acre-ft Jan. 27, 1970 (elevation, 1,213.11 ft); minimum since reservoir was first filled, 178,700 acre-ft Feb. 3, 1969 (elevation, 1,188.97 ft).

REMARKS.--Reservoir is formed by an earth and rockfill dam. Storage began in May 1963. Capacity, 241,100 acre-ft between elevations 1,100.00 (minimum operating level) and 1,210.00 ft (crest of spillway). No dead storage. Transbasin water enters the reservoir through Judge Francis Carr powerplant (see station 11525430) and is released through Spring Creek tunnel to Spring Creek powerplant (see station 11371600) and Keswick Reservoir. Records, including extremes, represent total contents. See schematic diagram of Pit and McCloud River basins elsewhere in this report.

COOPERATION.--Records furnished by Bureau of Reclamation.

Capacity table, water years 1966-70 (elevation, in feet, and contents, in acre-feet)

1,180 155,300 1,220 274,400

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1965 TO SFPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	233,100	222,800	224,700	206,400	211,000	195,100	198,400	239,300	239,100	239,400	239,200	239,500
2	233,000	222,700	224,500	205,700	209,800	195,000	198,800	239,500	239,000	239,400	239,100	239,700
3	232,800	223,300	224,000	206,100	209,400	194,900	199,100	239,400	239,000	239,400	239,100	239,600
4	232,800	223,600	223,300	209,800	212,800	194,900	198,600	239,300	239,000	239,500	239,000	239,400
5	232,700	223,400	223,600	212,700	213,800	194,900	197,400	239,200	239,000	239,600	239,100	239,200
6	232,600	223,300	223,400	213,300	211,500	194,900	196,800	239,200	239,000	239,500	239,000	239,000
7	232,400	222,900	223,000	211,700	208,100	194,800	196,000	239,200	239,000	239,400	238,900	239,300
8	232,300	222,100	222,100	210,600	206,400	195,400	195,700	239,200	238,900	239,400	238,900	239,600
9	231,800	220,400	221,600	212,200	203,900	197,000	195,400	239,100	238,900	239,400	239,000	239,700
10	231,200	219,500	220,700	212,500	200,800	197,600	195,100	239,000	238,800	239,400	239,000	239,800
11	230,800	218,300	220,400	211,300	198,300	197,900	195,000	239,100	238,900	239,400	239,100	239,700
12	230,400	218,500	219,600	210,400	195,700	197,600	194,900	239,200	238,600	239,500	239,200	239,700
13	229,900	222,200	218,600	210,600	194,200	197,500	194,700	239,100	238,500	239,300	239,200	239,800
14	229,600	229,200	217,500	210,800	194,400	197,300	195,200	239,000	238,500	239,200	239,300	239,800
15	229,200	235,000	216,400	210,000	194,600	196,900	195,600	239,000	238,400	239,200	239,400	239,800
16	228,700	236,400	215,500	209,200	195,200	196,300	197,600	239,000	238,800	239,100	239,500	239,800
17	228,100	238,600	214,700	208,200	195,700	195,300	200,200	239,000	238,900	239,100	239,400	239,700
18	227,700	242,700	213,800	207,300	195,800	195,800	202,800	239,100	239,100	239,100	239,200	239,600
19	227,200	244,400	213,000	206,800	196,300	196,200	205,400	239,100	239,200	239,100	239,000	239,300
20	226,700	243,200	212,200	205,300	196,300	196,400	208,000	239,100	239,000	239,100	239,000	239,100
21	226,200	241,600	211,400	204,400	196,200	196,400	211,200	239,100	239,000	239,000	239,000	238,800
22	225,700	240,100	210,700	203,400	196,400	196,200	214,600	239,100	238,900	239,000	239,000	238,500
23	225,100	237,200	209,900	202,300	196,500	196,000	218,000	239,100	238,900	239,100	239,100	238,000
24	224,600	235,000	209,700	201,600	196,600	195,800	221,300	239,200	239,000	239,100	239,200	238,100
25	224,100	232,800	209,200	203,200	196,200	195,800	224,500	239,200	239,100	239,000	239,200	238,100
26	223,800	230,200	208,200	204,900	195,700	195,900	227,600	239,200	239,400	239,000	239,300	238,000
27	223,400	227,200	207,500	207,300	195,200	196,200	230,600	239,200	239,600	239,100	239,400	238,000
28	223,000	224,100	209,100	209,300	195,000	196,500	233,700	239,100	239,500	239,100	239,500	238,000
29	223,000	224,500	208,900	210,600	------	196,800	236,800	239,000	239,400	239,200	239,600	238,000
30	223,000	224,800	208,300	211,500	------	197,400	239,100	239,000	239,400	239,200	239,600	237,900
31	222,900	------	207,500	211,400	------	197,900	------	239,100	------	239,200	239,000	------
MAX	233,100	244,400	224,700	213,300	213,800	197,900	239,100	239,500	239,600	239,600	239,600	239,800
MIN	222,900	218,300	207,500	201,600	194,200	194,800	194,700	239,000	238,400	239,000	238,900	237,900
(†)	1,204.20	1,204.82	1,199.12	1,200.44	1,194.82	1,195.82	1,209.37	1,209.37	1,209.47	1,209.40	1,209.36	1,209.99
(‡)	-10,300	+1,900	-17,300	+3,900	-16,400	+2,900	+41,200	0	+300	-200	-200	-1,100
(††)	850	110	150	210	200	560	1,150	1,700	2,000	2,240	2,220	1,330

CAL YR 1965 MAX 244,400 MIN 194,000 ‡ -17,700
WTR YR 1966 MAX 244,400 MIN 194,200 ‡ +4,700

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.
†† EVAPORATION, IN ACRE-FEET.

11371700 WHISKEYTOWN LAKE NEAR IGO, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	238,000	237,600	200,800	189,600	218,600	196,900	201,000	204,700	233,500	238,000	238,400	237,100
2	238,000	237,100	201,600	189,500	216,300	196,800	199,600	205,000	234,900	237,600	238,500	237,000
3	238,000	236,700	202,400	189,500	213,300	196,700	198,300	205,300	236,300	237,100	236,900	237,600
4	238,000	237,100	212,500	189,400	210,000	196,600	197,100	204,900	236,400	238,000	237,700	237,800
5	238,000	237,300	219,700	189,400	206,400	196,500	196,600	204,900	236,600	237,400	238,200	238,200
6	238,000	238,400	222,500	189,500	202,700	196,400	200,000	204,900	237,700	237,400	238,200	238,300
7	238,200	237,500	224,000	189,500	199,000	196,500	201,900	205,000	238,800	237,300	238,100	238,400
8	238,100	237,100	225,100	189,600	198,200	196,400	202,400	205,200	238,800	237,200	237,800	238,500
9	238,100	236,800	224,200	189,600	198,100	196,400	202,400	205,500	238,700	237,300	237,800	238,500
10	238,200	236,400	222,800	189,700	198,000	198,000	203,700	204,400	238,600	237,600	237,700	238,600
11	238,300	236,200	221,300	189,700	197,900	198,800	205,900	204,600	237,800	237,900	237,900	238,600
12	238,200	236,100	219,500	189,800	197,700	199,300	207,100	204,700	237,300	238,000	237,600	238,600
13	238,300	236,000	218,100	189,800	197,500	199,700	207,900	204,700	237,500	238,100	237,400	238,400
14	238,300	237,300	216,000	189,700	197,200	200,000	208,100	204,400	237,300	238,200	238,100	238,300
15	238,300	237,500	211,300	189,800	196,800	200,700	207,800	204,800	237,500	238,200	238,300	238,100
16	238,300	235,300	206,400	189,700	196,300	207,500	207,000	205,000	237,800	238,200	236,500	238,100
17	238,300	232,200	201,400	189,700	195,700	210,100	207,900	205,400	238,100	238,200	237,300	238,200
18	238,300	228,900	196,200	189,700	195,700	210,500	208,800	205,900	237,900	238,200	237,700	238,300
19	238,300	227,800	191,900	190,000	195,600	210,400	206,900	206,800	237,900	238,100	237,500	238,600
20	238,300	228,800	191,500	191,200	195,500	210,700	204,900	208,400	237,500	238,200	237,400	238,800
21	238,300	227,300	190,900	192,900	195,800	210,500	202,700	209,700	237,200	238,100	237,400	238,900
22	238,300	225,000	190,400	193,800	196,000	210,300	200,900	212,400	237,900	238,100	237,000	238,800
23	238,200	222,200	189,800	194,400	196,200	210,200	199,300	216,400	237,500	238,100	237,200	238,600
24	237,600	219,100	189,800	195,700	196,500	209,700	197,300	221,500	237,100	238,100	237,100	238,500
25	236,500	215,900	189,700	196,600	196,600	209,100	196,000	225,100	237,900	238,000	237,300	238,200
26	236,900	211,900	189,800	198,100	196,800	208,200	196,100	227,500	238,300	237,900	237,500	238,000
27	237,400	208,200	189,700	199,700	196,800	207,200	199,400	229,700	237,800	237,900	237,700	238,000
28	237,800	204,800	189,700	205,400	196,900	205,800	203,500	231,200	237,400	238,000	237,600	238,200
29	238,000	201,200	189,700	212,500	------	204,300	203,900	231,300	237,800	238,000	237,100	238,300
30	237,800	200,800	189,700	217,300	------	203,300	204,300	231,500	237,400	238,200	236,900	238,200
31	237,500	------	189,700	219,500	------	202,200	------	231,800	------	238,300	237,000	------
MAX	238,300	238,400	225,100	219,500	218,600	210,700	208,800	231,800	238,800	238,300	238,500	238,900
MIN	236,500	200,800	189,700	189,400	195,500	196,400	196,000	204,400	233,500	237,100	236,500	237,000
(†)	1,208.88	1,196.84	1,192.95	1,203.10	1,195.48	1,197.32	1,198.02	1,207.09	1,208.83	1,209.12	1,208.72	1,209.09
(‡)	-400	-36,700	-11,100	+29,800	-22,600	+5,300	+2,100	+27,500	+5,600	+900	-1,300	+1,200
(††)	850	280	120	150	340	400	290	1,320	1,450	2,060	2,100	1,490

CAL YR 1966 MAX 239,800 MIN 189,700 ‡ -17,800
WTR YR 1967 MAX 238,900 MIN 189,400 ‡ +300

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.
†† EVAPORATION, IN ACRE-FEET.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	237,800	237,200	225,000	210,100	202,800	224,200	202,400	202,900	231,000	236,900	236,600	236,600
2	238,400	237,100	225,200	209,900	203,300	223,100	202,500	203,400	231,300	236,800	236,500	236,500
3	238,500	237,400	224,700	209,600	203,500	221,900	202,400	203,400	231,800	236,500	236,500	234,600
4	237,900	237,300	225,300	209,400	203,700	220,500	202,600	203,200	232,300	236,600	236,400	232,600
5	237,600	237,200	225,300	209,100	203,900	219,100	202,500	203,000	232,700	236,700	236,400	230,600
6	237,600	237,100	225,100	208,900	204,100	217,600	202,400	202,800	233,100	236,900	236,400	228,600
7	237,600	237,500	224,700	208,600	204,000	216,100	202,300	203,900	233,600	237,000	236,400	226,600
8	237,500	237,700	224,200	208,400	203,400	214,400	202,200	205,100	234,000	236,800	236,600	224,800
9	237,500	237,700	223,700	208,500	203,400	212,800	202,000	206,400	234,200	236,800	236,600	223,000
10	237,400	237,500	223,100	208,600	203,400	211,000	202,100	207,700	234,600	236,900	236,700	221,000
11	237,400	237,400	222,500	208,200	203,300	209,100	202,200	209,000	234,800	236,900	236,600	219,000
12	237,300	237,400	222,000	207,800	203,200	207,900	202,300	210,500	235,000	236,900	236,500	217,200
13	237,000	237,800	221,400	208,000	202,900	206,600	202,400	212,200	235,300	236,900	236,500	215,500
14	236,900	238,100	220,900	209,200	202,600	205,200	202,500	213,600	235,700	236,800	236,500	215,500
15	237,100	237,900	220,300	210,400	202,300	203,700	202,400	214,900	236,100	236,800	236,500	215,200
16	237,300	237,600	219,900	210,700	202,800	204,000	202,500	216,300	236,500	236,900	236,600	215,100
17	237,500	236,800	219,400	210,000	204,600	204,200	202,200	217,600	237,000	237,000	235,900	215,100
18	238,000	236,100	219,300	209,200	205,400	203,900	202,200	219,200	237,400	236,900	236,100	215,100
19	238,200	235,200	218,700	208,200	207,100	203,300	202,500	220,700	237,500	236,700	236,400	215,100
20	238,200	234,100	217,700	207,100	210,500	203,200	202,600	222,400	237,500	236,700	237,200	215,200
21	238,300	233,000	217,300	206,100	213,600	202,700	203,000	224,100	237,700	236,700	237,000	215,400
22	238,300	231,700	216,600	205,200	218,600	202,500	203,000	225,500	237,600	236,700	236,800	215,500
23	238,300	230,700	216,000	204,200	222,900	202,300	203,100	226,800	237,400	236,600	236,700	215,600
24	238,200	229,600	215,100	203,100	225,600	202,000	203,200	227,900	237,300	236,600	236,600	215,800
25	238,100	228,700	214,300	202,900	227,000	202,000	203,300	228,600	237,100	236,700	236,600	216,400
26	238,500	227,800	213,700	202,700	227,200	202,000	203,300	229,000	237,100	236,700	236,800	216,600
27	237,900	227,100	212,900	202,300	226,600	202,000	203,200	229,300	237,000	236,700	236,100	214,800
28	237,700	226,300	212,200	202,600	225,800	201,900	202,900	229,700	236,900	236,700	235,900	212,900
29	237,600	225,900	211,600	203,100	225,000	201,800	202,900	230,000	236,900	236,600	235,900	211,000
30	237,000	225,300	210,700	203,200	------	201,900	202,900	230,400	237,100	236,600	236,200	211,100
31	236,900	------	210,300	203,200	------	202,000	------	230,700	------	236,600	236,500	------
MAX	238,500	238,100	225,300	210,700	227,200	224,200	203,300	230,700	237,700	237,000	237,200	236,600
MIN	236,900	225,300	210,300	202,300	202,300	201,800	202,000	202,800	231,000	236,500	235,900	211,000
(†)	1,208.69	1,204.99	1,200.06	1,197.66	1,204.90	1,197.24	1,197.55	1,206.72	1,208.75	1,208.59	1,208.56	1,200.33
(‡)	-1,300	-11,600	-15,000	-7,100	+21,800	-23,000	+900	+27,800	+6,400	-500	-100	-25,400
(††)	610	330	170	180	210	540	1,050	1,220	1,740	2,160	1,480	1,330

CAL YR 1967 MAX 238,900 MIN 189,400 ‡ +20,600
WTR YR 1968 MAX 238,500 MIN 201,800 ‡ -27,100

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.
†† EVAPORATION, IN ACRE-FEET.

11371700 WHISKEYTOWN LAKE NEAR IGO, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	211,400	207,200	180,800	179,800	179,100	188,400	201,700	226,800	237,700	237,400	236,100	239,000
2	211,400	206,200	180,600	179,800	178,900	191,100	201,000	227,300	237,700	237,200	236,600	238,600
3	211,500	204,400	180,600	179,800	178,700	193,300	202,400	228,200	237,700	237,100	238,000	237,400
4	211,600	202,400	180,600	180,200	179,400	195,200	203,900	227,500	237,700	237,000	239,000	236,100
5	211,500	200,300	180,700	180,900	180,100	197,000	205,400	227,900	237,700	237,100	239,000	235,100
6	211,600	198,100	180,700	181,100	180,000	198,900	206,800	228,200	237,700	237,600	239,200	234,100
7	211,500	195,700	180,900	181,000	179,700	200,300	208,200	228,500	237,600	238,100	239,400	233,100
8	211,600	193,300	181,000	180,800	180,900	200,400	209,300	229,100	237,500	238,500	239,700	232,100
9	211,600	190,900	181,200	180,300	182,900	200,500	211,100	229,600	237,600	238,300	238,300	231,100
10	211,600	188,600	184,100	179,900	183,600	200,300	212,800	229,500	237,600	238,400	238,400	230,100
11	211,900	186,300	184,500	180,200	190,700	200,200	214,000	229,500	237,600	239,000	238,500	229,100
12	212,200	183,900	182,700	187,200	194,400	200,300	214,500	230,300	237,600	238,900	238,700	227,300
13	212,400	181,900	180,700	194,900	194,400	199,900	214,800	231,600	237,600	238,700	238,800	225,700
14	212,400	182,000	179,500	193,400	194,000	199,600	215,000	232,800	237,500	238,400	238,600	224,000
15	212,300	181,800	180,800	190,000	194,000	200,000	216,000	234,200	237,400	238,200	238,300	222,100
16	212,100	181,600	178,800	186,400	193,600	200,400	217,300	235,200	237,400	238,100	238,500	222,200
17	211,300	181,500	178,900	183,100	191,700	200,800	218,100	235,600	237,300	237,900	238,600	222,200
18	210,800	181,500	179,400	182,300	189,800	201,600	219,400	235,900	236,800	237,700	238,600	222,500
19	210,300	181,400	179,900	183,100	187,000	201,800	220,600	236,400	236,600	237,200	238,600	222,500
20	209,800	181,200	180,000	190,000	182,400	201,600	220,900	236,700	237,300	237,600	238,500	222,500
21	209,400	181,200	179,800	192,600	181,400	201,500	221,000	236,800	237,500	238,800	238,500	222,400
22	209,300	181,300	180,300	190,200	181,200	201,500	222,000	236,800	236,900	239,000	238,500	222,400
23	209,100	181,100	180,200	186,800	180,800	201,600	223,500	237,300	236,600	238,700	238,600	222,400
24	209,100	181,200	180,000	181,900	180,800	202,000	223,800	237,700	236,500	238,500	238,500	222,500
25	209,300	181,100	179,700	180,900	180,600	202,100	224,000	237,500	236,800	238,400	238,300	222,500
26	209,000	181,000	179,800	183,500	180,000	202,200	224,000	237,100	237,400	238,200	238,300	222,200
27	208,900	180,900	180,000	182,300	180,600	202,700	223,800	237,100	237,400	237,700	238,400	222,200
28	208,800	180,800	180,600	180,300	184,800	202,600	223,600	237,400	237,500	237,100	238,400	222,300
29	209,000	180,900	180,600	180,800	------	203,000	224,300	237,400	237,600	236,700	238,600	222,400
30	209,000	180,900	180,800	180,300	------	202,900	225,600	237,500	237,400	236,500	238,700	222,400
31	208,900	------	180,400	179,200	------	202,300	------	237,600	------	236,300	238,800	------
MAX	212,400	207,200	184,500	194,900	194,400	203,000	225,600	237,700	237,700	239,000	239,700	239,000
MIN	208,800	180,800	178,800	179,200	178,700	188,400	201,000	226,800	236,500	236,300	236,100	222,100
(†)	1,199.59	1,189.78	1,189.59	1,189.15	1,191.19	1,197.35	1,205.09	1,208.91	1,208.84	1,208.50	1,209.28	1,204.05
(‡)	-2,200	-28,000	-500	-1,200	+5,600	+17,500	+23,300	+12,000	-200	-1,100	+2,500	-16,400
(††)	610	180	60	70	70	550	800	1,570	1,500	2,210	2,170	1,360

CAL YR 1968 MAX 237,700 MIN 178,800 ‡ -19,900
WTR YR 1969 MAX 239,700 MIN 178,700 ‡ +11,300

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.
†† EVAPORATION, IN ACRE-FEET.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	222,900	209,300	201,700	202,500	245,000	242,600	216,900	238,100	237,700	237,400	238,400	238,900
2	223,600	208,300	201,900	202,200	245,000	242,600	222,100	238,000	237,700	237,400	238,300	239,000
3	223,300	207,400	202,200	202,000	244,700	242,000	223,400	238,000	237,800	237,300	238,200	239,100
4	223,100	206,600	202,400	201,800	244,600	241,900	230,400	238,200	237,800	237,300	238,100	239,200
5	223,000	205,100	202,700	201,600	244,300	241,200	235,400	238,500	237,900	237,200	238,000	239,300
6	222,800	204,300	202,800	201,400	244,400	240,200	238,400	238,400	238,000	237,000	237,900	239,500
7	222,500	203,600	202,500	201,500	243,400	239,500	238,200	238,300	238,000	237,000	237,700	239,600
8	222,300	203,200	202,700	202,100	242,400	239,000	231,200	238,400	238,200	237,100	237,500	239,700
9	222,200	202,400	202,700	205,200	242,400	240,400	226,000	238,800	238,400	237,200	237,500	239,600
10	222,100	202,600	203,200	205,800	243,100	242,600	225,800	238,600	238,300	237,500	237,600	239,300
11	222,100	202,900	203,900	204,900	244,100	243,600	225,900	238,300	238,300	237,800	237,700	238,200
12	222,100	202,900	204,500	203,800	244,800	244,300	226,800	237,900	238,200	238,000	238,000	237,000
13	221,400	202,700	203,800	208,300	245,300	244,500	227,700	237,800	238,300	238,200	238,100	235,500
14	220,300	202,500	203,200	214,500	245,000	244,100	228,600	237,800	238,400	238,100	238,200	234,300
15	219,800	202,500	202,800	214,500	243,600	242,900	229,600	238,100	238,300	238,100	238,200	233,300
16	218,900	202,500	203,200	216,700	244,300	243,000	230,600	238,200	238,200	238,400	238,300	232,100
17	218,000	202,500	203,500	218,100	244,500	243,100	231,500	237,000	238,000	238,400	238,400	231,100
18	217,600	202,500	203,600	217,500	244,500	242,000	232,000	237,400	237,900	238,500	238,500	230,000
19	217,500	202,500	205,000	216,700	244,500	240,100	232,900	237,400	237,600	238,600	238,600	228,100
20	217,400	202,700	207,700	216,300	244,400	238,100	233,800	237,400	237,600	238,600	238,600	226,200
21	217,300	202,600	215,200	220,000	243,100	236,100	234,700	237,300	237,700	238,700	238,600	225,000
22	217,200	202,500	213,000	224,600	241,000	233,100	235,500	237,300	237,700	238,700	238,500	224,700
23	217,100	202,500	210,900	238,500	240,700	230,100	236,400	237,300	237,700	238,800	238,500	223,600
24	217,100	202,500	207,800	246,300	242,400	226,900	237,400	237,300	237,700	238,400	238,400	222,400
25	217,000	202,400	206,300	247,200	243,400	223,500	238,200	237,300	237,600	238,500	238,400	221,200
26	216,400	202,300	204,300	250,100	243,500	220,400	238,500	237,500	237,500	238,900	238,500	219,300
27	215,600	202,100	202,100	251,200	243,600	218,100	238,700	237,600	237,500	238,700	238,600	217,400
28	213,100	201,900	202,400	248,300	243,000	215,500	238,800	237,600	237,400	238,500	238,600	216,200
29	212,200	201,800	202,500	247,400	------	212,200	238,500	237,400	237,500	238,500	238,600	215,000
30	211,200	201,600	202,500	246,500	------	209,000	238,300	237,500	237,500	238,500	238,700	213,800
31	210,300	------	202,400	245,800	------	211,900	------	237,600	------	238,500	238,800	------
MAX	223,600	209,300	215,200	251,200	245,300	244,500	238,800	238,800	238,400	238,900	238,800	239,700
MIN	210,300	201,600	201,700	201,400	240,700	209,000	216,900	237,000	237,400	237,000	237,500	213,800
(†)	1,200.06	1,197.11	1,197.38	1,211.46	1,210.59	1,200.59	1,209.13	1,208.91	1,208.88	1,209.19	1,209.28	1,201.23
(‡)	-12,100	-8,700	+800	+43,400	-2,800	-31,100	+26,400	-700	-100	+1,000	+300	-25,000
(††)	640	350	140	120	320	640	900	1,510	1,620	2,230	2,110	1,430

CAL YR 1969 MAX 239,700 MIN 178,700 ‡ +22,000
WTR YR 1970 MAX 251,200 MIN 201,400 ‡ -8,600

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.
†† EVAPORATION, IN ACRE-FEET.

11372000 CLEAR CREEK NEAR IGO, CALIF.

LOCATION (REVISED).--Lat 40°30'48", long 122°31'23" (unsurveyed), Shasta County, on left bank at highway bridge on Redding-Igo Road,1.0 mile northeast of Igo, 8.3 miles southwest of Redding, and 10.4 miles upstream from mouth.

DRAINAGE AREA.--228 sq mi.

PERIOD OF RECORD.--October 1940 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 672 ft above mean sea level.

AVERAGE DISCHARGE.--30 years, 432 cfs (313,200 acre-ft per year), adjusted for storage and diversions.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Nov. 15, 1965, Jan. 4, 1966	2,290	5.76	Many days	37
1967	Dec. 5, 1966	2,800	6.14	Oct. 1-11, 13, 1966	39
1968	Feb. 22, 1968	1,430	5.09	June 13, Sept.17, 1968	50
1969	Jan. 13, 1969	3,580	6.64	(a)	51
1970	Jan. 26, 1970	8,260	8.73	July 6, 1970	45

a Oct. 2, 1968, July 17, 18, 21, Aug. 2, 1969.

Period of record: Maximum discharge, 24,500 cfs Dec. 21, 1955 (gage height, 13.75 ft); minimum, 8.6 cfs Sept. 4, 6, 7, 1950. Maximum discharge since construction of Whiskeytown Dam in 1963, 9,940 cfs Dec. 22, 1964 (gage height, 9.23 ft); minimum daily, 37 cfs for many days in August and September 1966.

REMARKS.--Records good. Since May 1963, flow regulated by Whiskeytown Lake (see station 11371700). Beginning in April 1963, transbasin diversion from Trinity River through Judge Francis Carr powerplant to Whiskeytown Lake (see station 11525430). Beginning in December 1963, diversions from Whiskeytown Lake to Spring Creek powerplant (see station 11371600). See schematic diagram of Pit and McCloud River basins elsewhere in this report. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

REVISIONS (WATER YEARS).--WSP 1345: Drainage area. WSP 1395: 1941(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	58	132	122	233	156	104	54	46	42	38	38
2	58	71	127	124	201	143	102	53	47	42	38	37
3	58	94	124	283	247	133	99	52	46	41	38	37
4	58	94	122	1,860	563	133	97	53	43	39	38	37
5	58	94	120	1,080	469	153	93	53	43	39	38	37
6	58	94	117	522	317	147	86	53	44	39	38	37
7	57	99	117	309	241	143	87	52	44	39	38	37
8	57	99	117	238	202	148	89	51	44	39	39	37
9	57	94	114	192	177	335	98	52	43	40	37	37
10	58	94	112	166	159	629	96	52	43	40	37	37
11	58	97	114	147	146	333	97	51	44	39	37	43
12	57	130	112	135	137	255	100	50	42	39	37	41
13	57	360	112	128	130	244	90	51	41	40	37	39
14	58	574	110	122	125	212	86	54	41	39	37	38
15	58	865	110	119	119	201	83	48	41	39	37	38
16	58	210	108	115	115	181	81	49	41	39	37	38
17	58	363	108	111	111	167	81	47	41	39	37	38
18	58	414	108	107	110	159	80	46	41	39	38	41
19	58	982	108	103	203	151	78	46	43	41	38	39
20	58	1,040	108	99	162	143	76	45	45	38	38	38
21	58	486	108	97	146	137	65	46	40	38	38	38
22	58	186	108	98	149	130	64	46	41	38	38	38
23	57	143	108	95	145	125	60	45	41	38	38	39
24	57	159	117	93	146	121	58	45	41	40	38	39
25	57	186	112	91	181	119	57	45	40	39	37	39
26	57	186	110	90	210	116	56	44	43	38	41	39
27	58	183	112	88	186	114	55	45	44	38	37	39
28	58	157	148	86	169	113	55	44	44	38	39	39
29	58	145	143	223	------	111	55	44	47	38	42	39
30	58	137	132	426	------	108	54	44	43	38	38	39
31	58	------	130	235	------	106	------	46	------	39	38	------
TOTAL	1,788	7,894	3,628	7,704	5,499	5,466	2,382	1,506	1,287	1,214	1,176	1,152
MEAN	57.7	263	117	249	196	176	79.4	48.6	42.9	39.2	37.9	38.4
MAX	58	1,040	148	1,860	563	629	104	54	47	42	42	43
MIN	57	58	108	86	110	106	54	44	40	38	37	37
AC-FT	3,550	15,660	7,200	15,280	10,910	10,840	4,720	2,990	2,550	2,410	2,330	2,280
MEAN†	42.3	1,029	374	982	1,039	1,025	546	156	55.6	12.8	12.8	-13.9
AC-FT†	2,600	61,240	23,000	60,360	57,710	63,020	32,470	2,620	3,310	790	790	-830

CAL YR 1965 TOTAL 43,021 MEAN 118 MAX 1,260 MIN 50 AC-FT 85,350 MEAN† 425 AC-FT† 307,700
WTR YR 1966 TOTAL 40,696 MEAN 111 MAX 1,860 MIN 37 AC-FT 80,720 MEAN† 434 AC-FT† 314,100

† ADJUSTED FOR CHANGE IN CONTENTS AND EVAPORATION FROM WHISKEYTOWN LAKE, DIVERSION FROM TRINITY RIVER THROUGH JUDGE FRANCIS CARR POWERPLANT, AND DIVERSION TO SPRING CREEK POWERPLANT.

11372000 CLEAR CREEK NEAR IGO, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	84	256	108	390	87	341	157	144	71	65	65
2	39	84	375	108	293	86	285	152	142	71	65	65
3	39	84	254	92	238	84	257	148	107	70	65	65
4	39	84	768	74	208	83	239	147	99	70	65	65
5	39	84	837	71	185	82	360	145	100	70	65	65
6	39	89	277	69	168	80	880	140	100	70	65	65
7	39	86	210	69	154	79	533	140	95	70	65	65
8	39	85	178	69	144	78	351	142	92	70	65	66
9	39	85	169	69	135	78	290	189	90	70	65	65
10	39	85	214	69	130	172	284	167	87	70	65	65
11	39	87	186	69	124	192	315	150	87	70	65	65
12	40	95	171	69	120	170	277	140	89	69	65	65
13	39	92	186	69	118	151	254	134	87	69	64	65
14	41	178	175	69	113	133	232	129	85	68	64	65
15	48	352	162	69	110	134	215	125	83	68	64	65
16	48	190	149	69	107	547	204	124	82	67	64	65
17	48	118	139	69	104	310	462	124	79	66	66	64
18	48	105	132	69	102	230	360	117	78	67	66	64
19	48	250	128	69	99	194	305	113	79	67	65	64
20	49	380	125	200	95	310	262	109	77	67	65	63
21	50	250	121	600	94	285	238	104	75	67	65	64
22	49	190	118	350	93	238	233	102	75	67	65	64
23	49	140	116	250	92	211	230	99	74	67	65	64
24	49	125	114	450	91	185	220	96	73	67	65	64
25	49	118	113	300	97	169	208	93	73	66	65	64
26	49	112	112	540	94	157	203	93	72	65	66	64
27	49	108	114	400	92	146	202	92	72	66	66	64
28	49	122	113	600	91	143	186	93	72	66	66	64
29	49	120	113	800	------	136	174	91	71	66	65	64
30	49	112	111	580	------	190	166	89	71	65	65	64
31	55	------	109	620	------	349	------	88	------	66	65	------
TOTAL	1,384	4,094	6,345	7,109	3,881	5,489	8,766	3,832	2,610	2,108	2,016	1,936
MEAN	44.6	136	205	229	139	177	292	124	87.0	68.0	65.0	64.5
MAX	55	380	837	800	390	547	880	189	144	71	66	66
MIN	39	84	109	69	91	78	166	88	71	65	64	63
AC-FT	2,750	8,120	12,590	14,100	7,700	10,890	17,390	7,600	5,180	4,180	4,000	3,840
MEAN†	15.3	540	1,017	978	916	1,072	1,601	792	279	75.5	53.4	187
AC-FT†	940	32,160	62,540	60,120	50,900	65,890	95,240	48,700	16,600	4,640	3,280	11,120

CAL YR 1966 TOTAL 39,209 MEAN 107 MAX 1,860 MIN 37 AC-FT 77,770 MEAN† 446 AC-FT† 322,900
WTR YR 1967 TOTAL 49,570 MEAN 136 MAX 880 MIN 39 AC-FT 98,320 MEAN† 625 AC-FT† 452,100

† ADJUSTED FOR CHANGE IN CONTENTS AND EVAPORATION FROM WHISKEYTOWN LAKE, DIVERSION FROM TRINITY RIVER THROUGH JUDGE FRANCIS CARR POWERPLANT, AND DIVERSION TO SPRING CREEK POWERPLANT.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	75	100	79	158	122	93	59	59	54	54	53
2	71	97	118	55	308	112	86	59	59	54	54	53
3	67	98	186	55	243	104	78	59	60	54	54	53
4	65	98	182	55	190	101	75	59	59	54	54	53
5	65	99	146	54	162	95	74	58	62	54	54	53
6	65	100	112	54	153	93	71	58	61	54	54	53
7	65	97	142	54	137	93	70	58	58	54	54	53
8	65	100	115	55	121	87	70	58	55	54	54	52
9	65	99	105	58	113	85	68	58	58	54	54	53
10	63	98	102	139	104	81	68	59	64	54	54	53
11	63	98	100	76	94	77	67	59	59	54	54	52
12	63	99	100	68	87	98	67	61	58	54	54	52
13	63	102	98	96	84	160	66	89	50	54	54	52
14	63	117	98	215	87	169	65	71	57	54	54	53
15	63	100	95	170	86	145	65	65	57	54	54	52
16	63	99	95	109	132	202	64	61	57	55	54	51
17	63	95	98	86	597	181	65	61	55	53	54	50
18	63	96	102	75	259	148	65	60	56	53	54	51
19	63	97	100	70	425	130	64	62	56	53	54	51
20	63	96	98	66	440	120	64	68	56	53	57	51
21	64	95	98	64	525	110	64	63	56	53	56	51
22	65	95	98	62	967	102	64	64	55	53	54	51
23	65	95	102	60	665	98	63	63	55	53	54	51
24	65	95	105	59	366	93	64	62	54	53	54	51
25	64	95	105	57	254	93	63	62	54	53	54	51
26	64	95	102	57	202	87	62	62	54	53	54	51
27	64	94	102	56	169	85	61	60	54	53	54	51
28	64	94	102	66	144	81	60	60	54	53	54	51
29	64	126	100	156	131	79	60	60	55	53	53	51
30	64	111	98	156	------	77	59	59	54	53	53	51
31	64	------	98	135	------	77	------	60	------	54	52	------
TOTAL	1,992	2,955	3,402	2,617	7,403	3,385	2,025	1,917	1,701	1,661	1,675	1,554
MEAN	64.3	98.5	110	84.4	255	109	67.5	61.8	56.7	53.6	54.0	51.8
MAX	71	126	186	215	967	202	93	89	64	55	57	53
MIN	63	75	95	54	84	77	59	58	50	53	52	50
AC-FT	3,950	5,860	6,750	5,190	14,680	6,710	4,020	3,800	3,370	3,290	3,320	3,080
MEAN†	107	118	247	376	1,266	539	294	321	273	378	252	29.7
AC-FT†	6,570	7,010	15,190	23,120	72,810	33,170	17,490	19,720	16,220	23,240	15,510	1,770

CAL YR 1967 TOTAL 46,096 MEAN 126 MAX 880 MIN 63 AC-FT 91,430 MEAN† 532 AC-FT† 385,260
WTR YR 1968 TOTAL 32,287 MEAN 88.2 MAX 967 MIN 50 AC-FT 64,040 MEAN† 347 AC-FT† 251,820

† ADJUSTED FOR CHANGE IN CONTENTS AND EVAPORATION FROM WHISKEYTOWN LAKE, DIVERSIONS FROM TRINITY RIVER THROUGH JUDGE FRANCIS CARR POWERPLANT, AND DIVERSION TO SPRING CREEK POWERPLANT.

11372000 CLEAR CREEK NEAR IGO, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	53	102	121	172	784	125	84	57	54	52	55
2	51	83	100	130	168	426	136	83	58	54	51	55
3	52	74	98	149	161	315	130	81	58	54	52	53
4	52	80	98	168	161	260	124	80	58	54	54	53
5	52	58	98	154	190	231	175	79	61	54	54	53
6	52	55	98	137	271	209	161	78	60	54	54	53
7	52	54	102	122	256	191	141	77	58	54	52	54
8	52	54	108	108	575	175	132	76	58	54	52	53
9	52	53	109	98	1,750	165	128	75	58	54	52	53
10	52	53	324	91	703	151	122	73	57	54	52	53
11	56	57	142	277	1,250	142	119	73	57	54	53	53
12	58	57	114	1,950	809	152	119	73	57	54	52	53
13	53	54	119	1,950	447	134	114	72	57	53	52	53
14	53	61	208	448	512	128	111	72	56	53	53	53
15	52	65	256	265	747	125	107	71	56	52	53	53
16	52	62	160	199	474	125	106	70	56	52	53	53
17	52	59	128	169	361	193	106	69	56	51	53	55
18	52	61	117	264	323	172	104	66	56	51	53	55
19	52	59	113	877	273	157	101	65	56	52	53	55
20	52	57	108	1,200	240	157	98	64	56	52	53	56
21	52	56	105	1,150	216	154	97	64	56	51	53	56
22	52	66	108	527	201	142	97	62	56	52	53	55
23	52	98	126	327	230	135	122	62	56	52	53	55
24	52	100	328	253	319	130	104	62	55	52	53	55
25	52	98	279	227	330	130	95	61	55	53	54	55
26	52	98	199	298	281	128	90	62	55	53	53	55
27	52	97	184	229	287	130	88	62	55	52	54	55
28	52	96	320	201	870	130	88	61	55	52	55	55
29	55	100	202	182	------	132	86	59	55	52	53	55
30	54	102	163	169	------	130	85	59	54	52	53	55
31	53	------	150	156	------	130	------	57	------	52	53	------
TOTAL	1,629	2,120	4,866	12,596	12,577	5,863	3,411	2,152	1,698	1,637	1,640	1,625
MEAN	52.5	70.7	157	406	449	189	114	69.4	56.6	52.8	52.9	54.2
MAX	58	102	328	1,950	1,750	784	175	84	61	54	55	56
MIN	51	53	98	91	161	125	85	57	54	51	51	53
AC-FT	3,230	4,210	9,650	24,980	24,950	11,630	6,770	4,270	3,370	3,250	3,250	3,220
MEAN †	61.6	133	556	1,864	2,063	1,115	1,080	619	282	205	171	204
AC-FT †	3,790	7,890	34,210	114,590	114,600	68,550	64,250	38,050	16,760	12,600	10,510	12,120

CAL YR 1968 TOTAL 32,553 MEAN 88.9 MAX 967 MIN 50 AC-FT 64,570 MEAN† 370 AC-FT† 268,900
WTR YR 1969 TOTAL 51,814 MEAN 142 MAX 1,950 MIN 51 AC-FT 102,800 MEAN† 688 AC-FT† 497,900

† ADJUSTED FOR CHANGE IN CONTENTS AND EVAPORATION FROM WHISKEYTOWN LAKE, DIVERSIONS FROM TRINITY RIVER THROUGH JUDGE FRANCIS CARR POWERPLANT, AND DIVERSION TO SPRING CREEK POWERPLANT.

NOTE.--NO GAGE-HEIGHT RECORD JUNE 2 TO JULY 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	54	93	107	1,660	417	292	65	52	46	47	48
2	55	54	92	75	1,390	302	101	65	52	46	48	48
3	55	54	93	74	1,240	248	89	64	52	46	47	48
4	55	55	93	72	1,160	291	89	64	51	46	48	52
5	55	59	93	70	1,000	265	88	64	51	46	47	50
6	55	61	94	69	1,000	197	87	64	51	45	47	49
7	55	60	94	69	802	202	86	64	52	46	48	49
8	55	62	99	82	378	191	86	66	60	46	48	49
9	55	57	96	399	237	181	84	65	69	46	47	48
10	56	56	108	443	386	225	84	63	57	46	47	48
11	53	55	160	273	695	582	82	63	54	46	47	48
12	53	55	368	287	1,070	880	81	64	52	46	47	49
13	54	67	177	827	1,420	1,070	83	62	53	46	47	48
14	55	93	205	1,850	1,380	1,060	85	70	59	46	47	48
15	63	93	142	686	811	580	83	60	55	46	47	48
16	58	93	120	1,120	857	403	81	59	53	46	47	48
17	57	93	116	562	1,070	920	79	58	52	46	49	48
18	56	93	130	380	1,040	1,330	78	58	51	46	49	48
19	55	93	480	705	1,080	1,040	79	57	50	46	49	48
20	55	93	1,160	686	1,030	1,000	77	58	50	47	49	48
21	55	92	1,670	1,780	913	999	77	57	49	47	49	48
22	55	92	327	1,260	306	991	75	55	49	47	49	48
23	55	93	476	2,450	134	983	73	56	47	46	49	49
24	57	93	292	2,150	178	1,010	71	55	47	47	49	48
25	57	93	224	2,810	464	1,050	69	53	47	46	49	48
26	57	92	189	3,980	594	1,050	67	48	47	46	49	48
27	55	92	169	6,410	630	1,040	67	55	48	46	49	48
28	55	92	153	4,660	656	1,040	66	54	50	47	49	48
29	55	92	138	3,320	------	1,040	65	53	49	46	48	48
30	55	93	132	2,460	------	1,040	65	53	47	46	48	48
31	54	------	125	1,970	------	902	------	52	------	47	48	------
TOTAL	1,720	2,324	7,908	42,086	23,581	22,529	2,589	1,844	1,556	1,431	1,488	1,451
MEAN	55.5	77.5	255	1,358	842	727	86.3	59.5	51.9	46.2	48.0	48.4
MAX	63	93	1,670	6,410	1,660	1,330	292	70	69	47	49	52
MIN	53	54	92	69	134	181	65	48	47	45	47	48
AC-FT	3,410	4,610	15,690	83,480	46,770	44,690	5,140	3,660	3,090	2,840	2,950	2,880
MEAN+	74.0	91.3	1,048	3,299	1,057	812	323	225	169	184	166	114
AC-FT+	4,550	5,430	64,440	202,800	58,690	49,910	19,220	13,820	10,060	11,340	10,220	6,760

CAL YR 1969 TOTAL 55,151 MEAN 151 MAX 1,950 MIN 51 AC-FT 109,400 MEAN+ 727 AC-FT+ 526,400
WTR YR 1970 TOTAL 110,507 MEAN 303 MAX 6,410 MIN 45 AC-FT 219,200 MEAN+ 632 AC-FT+ 457,300

+ ADJUSTED FOR CHANGE IN CONTENTS AND EVAPORATION FROM WHISKEYTOWN LAKE, DIVERSIONS FROM TRINITY RIVER THROUGH JUDGE FRANCIS CARR POWERPLANT, AND DIVERSION TO SPRING CREEK POWERPLANT.

11372050 CHURN CREEK NEAR REDDING, CALIF.

LOCATION.--Lat 40°38'35", long 122°22'05" (revised), in NE¼SW¼, sec.7, T.32 N., R.4 W., Shasta County, on right bank 0.3 mile upstream from Newtown Creek, 0.4 mile upstream from Oasis Road bridge, and 4 miles north of Redding.

DRAINAGE AREA.--9.35 sq mi (revised).

PERIOD OF RECORD.--October 1960 to September 1966 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 640 ft (from topographic map).

AVERAGE DISCHARGE.--6 years, 15.8 cfs (11,440 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (300 cfs), water year 1966

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Nov. 18, 1965	0630	412	4.44	Jan. 4, 1966	0800	*860	5.70	Feb. 4, 1966	1730	550	4.90

No flow for several months in water year 1966.

Period of record: Maximum discharge, 3,160 cfs Dec. 22, 1964 (gage height, 8.74 ft); no flow for several months in each year.

Flood of Sept. 18, 1959, reached a stage of 9.8 ft, from floodmarks (discharge, 4,860 cfs, by slope-area measurement).

REMARKS.--Records good. Small diversion above station for domestic supply.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	8.6	10	69	30	7.0	1.4	.30			
2		0	7.4	10	50	23	6.2	1.3	.30			
3		0	6.2	48	63	18	5.4	1.2	.30			
4		0	5.4	648	302	18	7.0	1.1	.20			
5		0	4.5	347	283	33	5.4	1.2	.20			
6		0	3.7	172	138	27	5.0	1.1	.20			
7		0	3.4	89	82	26	5.0	1.1	.30			
8		0	3.2	64	54	40	4.7	1.0	.30			
9		0	2.9	41	40	76	14	1.0	.20			
10		0	2.7	32	31	164	12	1.2	.20			
11		0	2.7	26	25	95	11	1.1	.10			
12		.60	3.4	22	22	59	14	1.0	0			
13		26	3.2	18	19	52	7.8	.90	0			
14		62	2.9	15	16	38	6.2	.80	0			
15		113	2.7	14	15	36	5.0	.70	0			
16		20	2.4	12	13	30	4.5	.70	0			
17		71	2.3	10	12	25	4.2	.60	0			
18		142	2.3	9.5	12	22	4.0	.40	0			
19		62	2.2	7.8	69	20	3.7	.40	0			
20		25	2.2	6.6	45	18	3.4	.30	0			
21		14	2.2	6.6	35	17	3.2	.30	0			
22		10	2.0	7.4	32	15	2.9	.30	0			
23		12	2.0	6.2	30	14	2.7	.20	0			
24		13	6.2	5.8	35	13	2.2	.20	0			
25		26	8.6	5.0	50	12	2.2	.20	0			
26		37	7.0	5.0	73	11	1.8	.20	0			
27		37	6.6	4.5	50	10	1.7	.20	0			
28		22	14	4.2	38	10	1.7	.20	0			
29		15	20	38	------	8.2	1.6	.20	0			
30		12	15	131	------	7.8	1.6	.20	0			
31		------	14	64	------	7.4	------	.30	------			------
TOTAL	0	719.60	171.9	1,879.6	1,703	975.4	157.1	21.00	2.60	0	0	0
MEAN	0	24.0	5.55	60.6	60.8	31.5	5.24	.68	.087	0	0	0
MAX	0	142	20	648	302	164	14	1.4	.30	0	0	0
MIN	0	0	2.0	4.2	12	7.4	1.6	.20	0	0	0	0
AC-FT	0	1,430	341	3,730	3,380	1,930	312	42	5.2	0	0	0

CAL YR 1965 TOTAL 5,199.00 MEAN 14.2 MAX 500 MIN 0 AC-FT 10,310
WTR YR 1966 TOTAL 5,630.20 MEAN 15.4 MAX 648 MIN 0 AC-FT 11,170

11372060 CHURN CREEK BELOW NEWTOWN CREEK, NEAR REDDING, CALIF.

LOCATION.--Lat 40°38'17", long 122°22'02", in SE¼SW¼ sec.7, T.32 N., R.4 W., Shasta County, on left bank 100 ft downstream from Newtown Creek, 0.1 mile upstream from Oasis Road bridge, and 4.2 miles north of Redding.

DRAINAGE AREA.--11.9 sq mi.

PERIOD OF RECORD.--October 1965 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 640 ft (from topographic map).

AVERAGE DISCHARGE.--5 years, 25.7 cfs (18,620 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (360 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Nov. 15, 1965	0500	374	4.68	Mar. 16, 1967	1100	396	4.52	Feb. 15, 1969	0530	542	5.03
Nov. 18, 1965	0630	580	5.25					Feb. 28, 1969	1700	706	5.44
Jan. 4, 1966	0800	*1,000	6.15	Feb. 17, 1968	1000	524	5.08				
Feb. 4, 1966	1600	640	5.40	Feb. 22, 1968	1000	470	4.90	Dec. 21, 1969	0715	905	5.85
				Mar. 13, 1968	2000	*645	5.41	Jan. 9, 1970	1915	1,020	6.07
Nov. 21, 1966	1800	636	5.32					Jan. 14, 1970	0630	1,170	6.32
Dec. 2, 1966	1000	762	5.68	Dec. 10, 1968	1330	1,280	6.47	Jan. 16, 1970	0830	466	4.82
Dec. 5, 1966	0100	*1,300	6.66	Jan. 12, 1969	2100	*1,770	7.09	Jan. 21, 1970	2115	1,080	6.16
Jan. 21, 1967	0900	585	5.15	Jan. 21, 1969	1830	1,460	6.70	Jan. 23, 1970	2030	*2,960	8.21
Jan. 26, 1967	0900	414	4.58	Feb. 9, 1969	0200	1,440	6.68	Jan. 26, 1970	2315	1,180	5.96
Jan. 31, 1967	0200	925	6.03	Feb. 11, 1969	2030	820	5.68				

No flow for long periods in each year.

Period of record: Maximum discharge, 2,960 cfs Jan. 23, 1970 (gage height, 8.21 ft); no flow for several months in each year.

Flood of Dec. 22, 1964, reached a stage of 8.68 ft, from floodmarks (discharge, 4,000 cfs, from station above Newtown Creek adjusted for intervening drainage area).

REMARKS.--Records good. Small diversion above station for domestic supply.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	9.7	12	77	39	7.2	1.7	.20			
2		0	8.5	11	59	31	6.5	1.7	.20			
3		0	7.5	55	74	24	5.8	1.3	.20			
4		0	6.8	796	320	22	7.2	1.2	.20			
5		0	5.8	402	306	41	5.8	1.2	.10			
6		0	5.2	172	137	35	5.6	1.2	.20			
7		0	4.6	93	87	35	5.4	1.2	.20			
8		0	4.4	70	63	50	5.2	1.1	.20			
9		0	4.0	46	49	83	15	1.1	.20			
10		0	3.7	36	37	174	11	1.2	.10			
11		0	4.0	28	32	100	12	1.2	.10			
12		1.0	4.2	24	26	67	15	1.0	.10			
13		31	3.6	20	22	61	8.2	.90	0			
14		77	3.2	17	20	44	6.8	.70	0			
15		135	2.8	15	17	41	5.8	.70	0			
16		28	2.6	13	16	33	5.4	.70	0			
17		86	2.5	12	15	27	5.0	.60	0			
18		168	2.4	11	14	24	4.6	.40	0			
19		69	2.3	9.4	76	21	4.0	.40	0			
20		28	2.3	8.2	52	18	3.8	.30	0			
21		16	2.4	8.0	40	17	3.7	.30	0			
22		11	2.1	9.1	36	15	3.4	.20	0			
23		12	2.0	8.0	33	14	3.2	.20	0			
24		14	6.5	7.2	42	13	2.8	.20	0			
25		30	10	7.0	58	12	2.8	.10	0			
26		44	8.2	6.8	83	11	2.3	.10	0			
27		44	8.0	6.2	61	10	2.1	.10	0			
28		26	16	5.8	48	9.7	2.1	.10	0			
29		20	22	48	------	8.2	1.9	.10	0			
30		12	17	124	------	8.0	1.8	.10	0			
31		------	15	71	------	7.5	------	.20	------			------
TOTAL	0	852.0	199.3	2,151.7	1,900	1,095.4	171.4	21.50	2.00	0	0	0
MEAN	0	28.4	6.43	69.4	67.9	35.3	5.71	.69	.067	0	0	0
MAX	0	168	22	796	320	174	15	1.7	.20	0	0	0
MIN	0	0	2.0	5.8	14	7.5	1.8	.10	0	0	0	0
AC-FT	0	1,690	395	4,270	3,770	2,170	340	43	4.0	0	0	0

WTR YR 1966 TOTAL 6,393.30 MEAN 17.5 MAX 796 MIN 0 AC-FT 12,680

11372060 CHURN CREEK BELOW NEWTOWN CREEK, NEAR REDDING, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	71	5.6	150	7.0	167	29	8.3	.10		
2		0	400	5.2	78	6.5	99	23	11	.10		
3		0	134	5.2	53	6.0	67	23	6.2	.10		
4		0	403	5.8	40	5.8	49	20	5.0	0		
5		0	435	5.6	32	5.6	63	18	4.6	0		
6		0	96	5.2	27	5.4	190	16	4.8	0		
7		0	49	4.8	23	5.2	138	13	4.2	0		
8		0	32	4.2	19	5.0	80	12	3.8	0		
9		0	27	4.4	17	5.0	79	18	3.4	0		
10		0	47	4.4	15	17	61	18	3.0	0		
11		0	32	4.6	13	57	56	13	2.6	0		
12		0	28	4.2	12	40	47	12	2.6	0		
13		0	54	3.8	12	36	49	9.7	2.4	0		
14		10	43	3.8	11	32	46	8.8	1.8	0		
15		42	33	5.0	10	37	43	8.2	1.6	0		
16		40	26	5.4	9.4	256	36	7.8	1.4	0		
17		6.8	21	4.0	9.1	140	127	7.2	1.2	0		
18		3.6	17	3.8	8.5	69	146	7.0	1.1	0		
19		37	15	3.6	8.0	46	117	6.2	1.0	0		
20		108	13	190	7.8	54	81	5.8	1.0	0		
21		135	11	409	7.5	40	63	5.4	.90	0		
22		56	10	134	7.2	35	61	4.8	.60	0		
23		20	9.7	66	7.0	31	60	4.4	.50	0		
24		11	8.5	112	9.1	26	63	3.8	.50	0		
25		8.0	8.0	91	14	23	52	3.6	.40	0		
26		6.5	7.5	278	8.8	20	49	3.6	.40	0		
27		5.4	7.0	222	7.8	17	62	3.4	.40	0		
28		11	6.5	381	7.2	17	46	3.6	.30	0		
29		14	6.5	449	------	15	40	3.2	.20	0		
30		9.7	6.2	308	------	66	33	3.0	.10	0		
31		------	5.8	429	------	202	------	3.2	------	0		------
TOTAL	0	524.0	2,062.7	3,157.6	623.4	1,327.5	2,270	317.7	75.30	.30	0	0
MEAN	0	17.5	66.5	102	22.3	42.8	75.7	10.2	2.51	.010	0	0
MAX	0	135	435	449	150	256	190	29	11	.10	0	0
MIN	0	0	5.8	3.6	7.0	5.0	33	3.0	.10	0	0	0
AC-FT	0	1,040	4,090	6,260	1,240	2,630	4,500	630	149	.6	0	0

CAL YR 1966 TOTAL 7,928.70 MEAN 21.7 MAX 796 MIN 0 AC-FT 15,730
WTR YR 1967 TOTAL 10,358.50 MEAN 28.4 MAX 449 MIN 0 AC-FT 20,550

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	3.9	3.1	80	22	12	2.2	.43			
2		0	7.5	3.0	156	18	11	1.8	.43			
3		0	52	2.7	114	16	8.6	1.5	.56			
4		0	26	2.7	85	14	8.0	1.4	.51			
5		0	17	2.7	60	13	7.5	1.4	2.0			
6		0	8.6	2.7	44	12	6.9	1.2	2.3			
7		0	43	2.7	34	22	6.3	1.2	1.3			
8		0	13	2.7	25	15	5.8	1.2	.80			
9		0	7.8	4.2	21	14	5.3	1.1	.62			
10		0	5.8	71	18	11	5.1	1.1	.51			
11		0	4.6	31	15	9.5	4.9	1.0	.47			
12		0	3.9	21	13	30	4.6	2.2	.47			
13		0	3.4	44	12	171	3.9	7.8	.47			
14		.03	3.1	128	17	158	3.9	4.0	.39			
15		.18	3.0	90	14	88	3.9	2.5	.27			
16		.11	2.8	48	30	144	3.7	1.9	.13			
17		.08	2.8	29	281	99	3.4	1.6	.10			
18		.08	4.4	20	109	66	3.3	1.4	.07			
19		.15	4.6	15	132	48	3.1	1.8	.05			
20		.13	4.4	12	164	37	3.0	3.3	.04			
21		.11	4.2	11	183	30	2.8	2.5	.04			
22		.10	5.6	8.9	360	24	2.7	2.6	.03			
23		.08	6.3	8.0	277	22	2.7	2.0	.02			
24		.08	6.3	7.5	128	18	2.7	1.8	.01			
25		.10	5.6	6.9	80	19	2.5	1.7	0			
26		.11	4.6	6.6	55	16	2.5	1.4	0			
27		.11	4.4	5.8	42	13	2.2	1.2	0			
28		.18	3.9	9.2	34	12	2.1	1.0	0			
29		9.4	3.6	105	26	11	2.0	.80	0			
30		8.0	3.4	114	------	10	2.0	.68	0			
31		------	3.3	88	------	9.5	------	.51	------			------
TOTAL	0	19.03	272.8	906.4	2,609	1,192.0	138.4	57.79	12.02	0	0	0
MEAN	0	.63	8.80	29.2	90.0	38.5	4.61	1.86	.40	0	0	0
MAX	0	9.4	52	128	360	171	12	7.8	2.3	0	0	0
MIN	0	0	2.8	2.7	12	9.5	2.0	.51	0	0	0	0
AC-FT	0	38	541	1,800	5,170	2,360	275	115	24	0	0	0

CAL YR 1967 TOTAL 8,063.63 MEAN 22.1 MAX 449 MIN 0 AC-FT 15,990
WTR YR 1968 TOTAL 5,207.44 MEAN 14.2 MAX 360 MIN 0 AC-FT 10,330

11372060 CHURN CREEK BELOW NEWTOWN CREEK, NEAR REDDING, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.46	8.0	46	57	301	9.0	7.0	.27	.01		
2	0	7.2	5.6	57	54	160	11	6.3	.25	0		
3	0	4.0	4.0	64	51	102	13	6.3	.25	0		
4	0	5.3	2.9	59	52	72	10	6.0	.30	0		
5	0	2.4	2.4	47	91	58	59	5.6	.37	0		
6	0	1.6	2.1	37	212	47	43	4.8	.33	0		
7	0	1.3	2.3	31	154	40	32	4.5	.37	0		
8	0	1.0	5.6	26	177	34	26	4.5	.41	0		
9	0	.84	5.6	23	667	30	23	4.2	.84	0		
10	0	.72	256	21	260	27	21	3.8	1.2	0		
11	0	1.2	45	114	425	24	18	3.1	1.4	0		
12	0	3.6	21	1,060	315	30	16	3.1	1.3	0		
13	0	1.7	23	978	140	23	15	3.1	.77	0		
14	.03	2.0	154	222	182	21	14	2.8	.60	0		
15	.18	7.5	123	104	349	19	12	2.6	.37	0		
16	.13	7.0	50	62	176	17	11	2.3	.20	0		
17	.09	4.2	29	44	113	25	10	2.1	.15	0		
18	.07	4.8	20	56	88	23	9.6	1.9	.16	0		
19	.06	4.5	16	168	65	20	9.0	1.7	.27	0		
20	.06	2.8	14	426	50	19	8.5	1.5	.27	0		
21	.06	2.2	12	760	42	19	8.0	1.3	.25	0		
22	.07	1.8	10	264	38	17	7.5	1.2	.16	0		
23	.08	1.7	21	127	57	15	36	1.1	.09	0		
24	.07	2.2	171	86	128	14	24	1.1	.05	0		
25	.05	2.0	194	82	111	13	15	1.0	.04	0		
26	.07	1.7	109	152	83	12	12	1.0	.02	0		
27	.07	1.5	143	91	97	12	10	1.3	.04	0		
28	.07	1.3	245	69	443	12	9.0	.96	.06	0		
29	.41	1.5	118	53	------	10	8.0	.66	.01	0		
30	1.3	6.0	71	52	------	10	7.5	.60	.01	0		
31	.66	------	51	47	------	9.6	------	.41	------	0		------
TOTAL	3.53	86.02	1,934.5	5,428	4,677	1,235.6	507.1	87.83	10.81	.01	0	0
MEAN	.11	2.87	62.4	175	167	39.9	16.9	2.83	.36	.0003	0	0
MAX	1.3	7.5	256	1,060	667	301	59	7.0	1.4	.01	0	0
MIN	0	.46	2.1	21	38	9.6	7.5	.41	.01	0	0	0
AC-FT	7.0	171	3,840	10,770	9,280	2,450	1,010	174	21	.02	0	0

CAL YR 1968 TOTAL 6,939.66 MEAN 19.0 MAX 360 MIN 0 AC-FT 13,760
WTR YR 1969 TOTAL 13,970.40 MEAN 38.3 MAX 1,060 MIN 0 AC-FT 27,710

DISCHARGF, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.22	13	40	51	6.2	2.1	.15			
2		0	.25	12	33	33	6.1	1.9	.13			
3		0	.30	12	29	28	5.9	1.9	.08			
4		0	.33	12	26	60	5.8	1.8	.05			
5		.27	.31	12	23	54	5.7	1.7	.03			
6		3.8	.30	12	20	44	5.4	1.6	.03			
7		.96	.33	11	19	52	4.7	1.8	.02			
8		1.3	.84	20	17	48	3.5	2.0	.03			
9		.60	.84	347	17	43	3.5	2.3	.73			
10		.41	2.2	358	16	39	3.6	1.8	.94			
11		.30	22	149	15	33	3.6	1.8	.52			
12		.30	125	178	16	28	2.8	2.0	.32			
13		.27	69	473	44	25	4.0	2.2	.28			
14		.25	67	714	28	24	4.6	2.0	.62			
15		.25	29	249	22	20	4.1	1.8	.54			
16		.25	16	385	86	18	4.1	1.5	.39			
17		.22	14	219	99	17	3.7	1.4	.30			
18		.22	22	127	59	15	3.4	1.4	.27			
19		.22	259	162	43	14	3.1	1.3	.33			
20		.22	370	200	35	12	3.0	1.2	.25			
21		.22	344	664	29	12	3.0	1.1	.18			
22		.22	87	568	24	11	2.8	.71	.05			
23		.20	188	1,150	21	11	2.8	.53	.03			
24		.20	110	678	19	10	2.8	.46	.01			
25		.20	77	202	17	9.1	2.6	.39	.01			
26		.20	45	324	16	8.5	2.7	.40	.01			
27		.18	32	450	15	7.9	2.6	.35	0			
28		.20	25	159	45	7.9	2.5	.38	0			
29		.20	21	95	------	7.4	2.3	.30	0			
30		.22	17	65	------	6.8	2.3	.26	0			
31		------	14	49	------	6.6	------	.19	------			------
TOTAL	0	11.88	1,958.92	8,069	873	756.2	113.2	40.57	6.30	0	0	0
MEAN	0	.40	63.2	260	31.2	24.4	3.77	1.31	.21	0	0	0
MAX	0	3.8	370	1,150	99	60	6.2	2.3	.94	0	0	0
MIN	0	0	.22	11	15	6.6	2.3	.19	0	0	0	0
AC-FT	0	24	3,890	16,000	1,730	1,500	225	80	12	0	0	0

CAL YR 1969 TOTAL 13,917.15 MEAN 38.1 MAX 1,060 MIN 0 AC-FT 27,600
WTR YR 1970 TOTAL 11,829.07 MEAN 32.4 MAX 1,150 MIN 0 AC-FT 23,460

11372200 SOUTH COW CREEK NEAR MILLVILLE, CALIF.

LOCATION.--Lat 40°32'56", long 122°05'29", in NW¼NE¼ sec.16, T.31 N., R 2 W., Shasta County, on left bank 2.5 miles upstream from Old Cow Creek and 4.4 miles east of Millville.

DRAINAGE AREA.--77.3 sq mi.

PERIOD OF RECORD.--October 1956 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 610 ft (from topographic map). Prior to Aug. 9, 1957, at site 1.0 mile downstream at different datum.

AVERAGE DISCHARGE.--14 years, 112 cfs (81,140 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (1,800 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Jan. 4, 1966	1645	*2,420	6.14	Jan. 14, 1968	2100	2,700	6.38	Jan. 19, 1969	1915	*4,730	8.02
				Jan. 29, 1968	2145	2,460	6.14	Feb. 11, 1969	2200	2,430	6.11
Nov. 19, 1966	2245	2,200	5.88	Feb. 19, 1968	2230	*2,870	6.55				
Dec. 2, 1966	1630	*5,080	8.27	Feb. 23, 1968	1615	1,820	5.38	Dec. 12, 1969	1145	2,740	6.42
Jan. 21, 1967	1530	4,560	7.90	Mar. 16, 1968	0800	1,920	5.52	Dec. 19, 1969	1215	6,310	9.07
Jan. 28, 1967	1815	2,400	6.05					Dec. 21, 1969	0815	5,510	8.57
Jan. 31, 1967	0530	1,980	5.60	Dec. 10, 1968	1045	2,230	5.91	Jan. 9, 1970	1815	3,100	6.77
Apr. 27, 1967	0315	1,820	5.29	Dec. 15, 1968	1245	2,000	5.63	Jan. 16, 1970	0830	3,820	7.37
				Dec. 25, 1968	1100	3,250	6.89	Jan. 23, 1970	2300	*6,970	9.46
Jan. 10, 1968	0400	2,110	5.69	Jan. 12, 1969	2215	4,590	7.92	Jan. 27, 1970	0315	2,060	5.61

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	July 23, 1966	2.3	1969	Oct. 3, 1968	11
1967	Oct. 6, 1966	7.5	1970	Aug. 18, 1970	16
1968	Aug. 9, 1968	8.0			

Period of record: Maximum discharge, 6,970 cfs Jan. 23, 1970 (gage height, 9.46 ft); minimum, 0.3 cfs Aug. 30, 1960.

Flood in December 1955 reached a stage of 12.5 ft, from floodmarks, former site and datum (discharge unknown).

REMARKS.--Records good. Diversions above station of up to 35 cfs for irrigation of about 1,050 acres. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

REVISIONS.--WSP 1735: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	20	37	77	219	81	132	86	34	12	11	6.5
2	18	21	35	64	94	73	143	81	31	15	11	11
3	18	20	34	63	134	66	144	81	31	18	9.4	12
4	16	21	34	1,010	298	62	146	84	30	16	3.2	10
5	16	23	33	1,520	211	77	141	87	29	14	4.6	9.0
6	18	24	32	400	346	87	130	92	31	14	7.5	10
7	18	27	32	207	137	76	128	86	35	14	5.9	10
8	20	42	31	245	99	124	131	90	31	17	4.6	8.3
9	20	31	30	158	82	112	130	90	32	14	7.5	11
10	20	28	30	122	71	186	176	85	29	12	6.0	12
11	19	29	30	100	62	162	190	84	30	14	4.0	13
12	19	43	32	83	58	135	173	79	29	14	7.5	13
13	19	57	31	72	53	143	144	74	26	13	5.5	13
14	20	114	30	65	51	146	131	66	24	12	6.7	13
15	22	175	29	60	49	164	126	65	21	13	7.8	12
16	21	67	32	56	46	191	131	60	20	14	8.8	12
17	22	145	32	53	45	132	140	54	20	16	8.5	15
18	22	166	32	51	44	117	139	52	17	13	8.5	15
19	22	82	31	49	126	216	124	48	22	12	5.0	17
20	20	62	31	46	144	133	112	46	19	7.5	8.0	15
21	18	46	32	44	81	115	97	44	22	7.0	9.3	14
22	17	39	32	44	76	102	92	45	23	2.5	9.5	14
23	18	37	30	44	133	93	88	42	20	2.3	12	13
24	17	106	69	42	286	88	91	37	18	6.0	4.8	11
25	17	143	123	40	180	86	95	34	15	4.2	5.0	11
26	16	93	66	40	169	85	100	36	13	5.0	5.9	12
27	16	82	51	39	108	91	94	33	17	7.6	3.4	11
28	15	52	446	38	90	99	92	35	13	6.8	5.5	8.5
29	16	44	166	175	------	106	92	35	11	11	3.8	8.5
30	17	40	143	152	------	117	88	34	9.5	8.8	6.5	8.5
31	20	------	147	79	------	123	------	34	------	11	6.0	------
TOTAL	573	1,879	1,943	5,238	3,492	3,588	3,740	1,899	702.5	346.7	212.7	349.3
MEAN	18.5	62.6	62.7	169	125	116	125	61.3	23.4	11.2	6.86	11.6
MAX	22	175	446	1,520	346	216	190	92	35	18	12	17
MIN	15	20	29	38	44	62	88	33	9.5	2.3	3.2	6.5
AC-FT	1,140	3,730	3,850	10,390	6,930	7,120	7,420	3,770	1,390	688	422	693

CAL YR 1965 TOTAL 40,554.0 MEAN 111 MAX 2,300 MIN 10 AC-FT 80,440

WTR YR 1966 TOTAL 23,963.2 MEAN 65.7 MAX 1,520 MIN 2.3 AC-FT 47,530

11372200 SOUTH COW CREEK NEAR MILLVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	15	336	40	547	71	359	162	199	60	28	20
2	14	17	1,420	39	362	70	182	156	183	57	23	21
3	12	16	450	39	271	69	166	154	159	59	27	22
4	9.5	15	330	40	218	66	148	162	155	57	29	20
5	8.5	13	250	37	188	65	168	182	148	53	29	22
6	7.5	40	165	38	164	64	482	182	149	54	30	22
7	12	36	132	37	150	63	323	205	148	53	30	23
8	9.0	24	109	36	138	63	218	251	147	53	28	24
9	14	21	98	36	126	63	185	312	151	50	27	26
10	12	21	239	36	118	66	190	426	149	48	27	26
11	14	23	134	35	112	245	212	288	150	42	25	26
12	15	53	106	35	109	212	164	240	154	43	25	22
13	13	34	294	35	109	284	150	220	143	41	27	21
14	13	29	197	34	107	282	225	215	138	37	22	20
15	14	48	134	34	100	202	198	238	134	34	21	18
16	15	207	110	34	96	646	146	293	129	37	24	18
17	13	54	96	33	93	332	260	340	125	38	22	25
18	13	38	87	33	90	327	465	379	126	38	22	25
19	12	293	80	33	86	278	578	376	116	35	23	20
20	12	630	75	1,030	82	242	383	366	111	31	24	21
21	13	263	68	2,210	79	210	236	366	107	31	23	19
22	15	230	64	560	77	190	215	371	101	32	20	21
23	18	93	60	254	74	251	312	370	94	35	21	21
24	17	66	56	446	76	205	416	352	90	33	22	20
25	17	53	51	236	103	180	595	309	86	34	23	19
26	16	47	50	675	80	162	274	276	79	30	25	18
27	16	43	48	785	75	150	727	260	78	31	22	22
28	15	228	44	1,120	72	158	289	255	74	32	23	23
29	16	400	43	1,310	------	150	218	231	68	30	20	22
30	17	153	42	1,100	------	142	180	212	62	32	22	23
31	15	------	41	1,070	------	268	------	197	------	30	20	------
TOTAL	417.5	3,203	5,409	11,480	3,902	5,726	8,664	8,346	3,753	1,270	754	650
MEAN	13.5	107	174	370	139	185	289	269	125	41.0	24.3	21.7
MAX	18	630	1,420	2,210	547	646	727	426	199	60	30	26
MIN	7.5	13	41	33	72	63	146	154	62	30	20	18
AC-FT	828	6,350	10,730	22,770	7,740	11,360	17,190	16,550	7,440	2,520	1,500	1,290

CAL YR 1966 TOTAL 28,597.7 MEAN 78.3 MAX 1,520 MIN 2.3 AC-FT 56,720
WTR YR 1967 TOTAL 53,574.5 MEAN 147 MAX 2,210 MIN 7.5 AC-FT 106,300

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	27	41	38	130	221	147	71	33	16	12	14
2	41	27	37	37	546	198	137	72	35	18	12	14
3	63	28	214	35	300	180	119	72	34	15	9.4	13
4	36	28	392	34	181	165	112	72	34	14	14	11
5	35	29	246	33	144	158	112	71	48	17	11	16
6	33	30	71	33	133	144	105	67	59	14	12	17
7	30	28	203	32	129	138	100	64	48	16	12	15
8	31	28	71	33	122	134	97	64	40	16	10	17
9	31	31	52	53	130	122	95	60	36	16	8.0	16
10	30	30	45	1,080	130	111	98	55	34	17	11	16
11	30	30	42	161	121	105	103	54	30	18	13	13
12	30	30	39	104	113	202	106	60	30	17	8.9	13
13	26	31	34	139	106	203	100	74	31	17	12	14
14	26	48	40	1,280	105	158	98	74	28	17	15	16
15	28	38	46	1,450	95	139	99	66	27	13	18	18
16	26	33	34	626	170	636	97	60	27	13	17	13
17	26	31	31	315	669	265	91	58	22	14	17	14
18	25	33	38	200	269	193	87	57	20	12	17	14
19	27	49	38	149	746	165	85	59	18	9.5	33	14
20	29	35	35	121	972	148	80	72	20	12	92	18
21	30	32	34	107	831	138	79	61	23	16	75	20
22	32	32	34	95	814	132	68	68	25	10	44	20
23	29	31	36	88	1,190	128	65	65	25	13	30	19
24	27	30	37	84	725	123	60	61	22	10	26	19
25	30	30	38	80	492	142	61	56	23	12	23	16
26	30	30	40	75	381	134	59	55	22	11	24	13
27	29	31	49	71	323	125	63	49	22	11	23	16
28	29	33	50	68	279	120	57	41	17	8.9	22	13
29	30	45	45	524	244	120	60	42	17	12	19	15
30	28	47	42	465	------	120	64	38	18	14	16	20
31	27	------	39	181	------	124	------	35	------	15	16	------
TOTAL	947	985	2,193	7,791	10,590	5,191	2,704	1,873	868	434.4	672.3	467
MEAN	30.5	32.8	70.7	251	365	167	90.1	60.4	28.9	14.0	21.7	15.6
MAX	63	49	392	1,450	1,190	636	147	74	59	18	92	20
MIN	23	27	31	32	95	105	57	35	17	8.9	8.0	11
AC-FT	1,880	1,950	4,350	15,450	21,010	10,300	5,360	3,720	1,720	862	1,330	926

CAL YR 1967 TOTAL 48,670.0 MEAN 133 MAX 2,210 MIN 18 AC-FT 96,540
WTR YR 1968 TOTAL 34,715.7 MEAN 94.9 MAX 1,450 MIN 8.0 AC-FT 68,860

11372200 SOUTH COW CREEK NEAR MILLVILLE, CALIF.--CONTINUED

DISCHARGF, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	26	58	128	290	454	304	256	166	50	32	22
2	19	43	46	166	248	438	276	247	155	49	32	19
3	11	60	40	169	220	355	269	239	149	51	32	20
4	15	46	38	161	210	257	226	217	141	49	28	18
5	21	36	37	151	487	222	665	225	135	47	28	24
6	22	32	38	145	518	200	520	245	130	51	27	24
7	19	30	36	140	302	180	321	275	123	46	28	23
8	19	28	47	134	267	165	279	299	121	36	26	22
9	17	28	62	120	657	161	253	315	130	46	28	24
10	18	27	1,160	108	578	150	231	332	126	45	28	24
11	26	29	361	1,210	1,190	137	224	354	130	44	27	23
12	34	107	181	3,190	940	129	240	351	115	40	24	22
13	61	48	179	2,430	498	121	234	342	106	42	29	19
14	57	45	625	813	739	115	225	313	98	42	28	15
15	37	67	680	465	822	113	207	280	97	37	26	23
16	29	110	282	330	514	116	202	264	84	36	29	24
17	27	71	168	257	376	132	215	264	82	37	25	24
18	26	131	128	359	373	142	288	273	84	34	26	25
19	25	89	107	1,610	305	140	254	255	89	31	34	26
20	25	59	88	2,140	297	140	255	240	81	31	28	26
21	25	48	76	2,150	266	137	270	228	77	39	26	27
22	25	44	71	1,030	230	133	292	228	73	35	22	26
23	25	44	85	624	374	136	349	230	64	36	20	25
24	24	56	1,000	481	470	136	286	232	66	36	24	25
25	25	69	1,430	714	429	140	249	221	63	34	24	24
26	25	52	438	986	457	147	227	219	60	33	21	23
27	26	45	328	631	412	158	218	211	64	35	22	21
28	26	41	548	488	820	177	221	193	59	33	22	21
29	41	38	270	389	------	201	239	181	56	33	22	26
30	51	50	177	348	------	226	246	178	53	30	21	23
31	29	------	137	300	------	272	------	165	------	28	23	------
TOTAL	851	1,599	8,921	22,367	13,289	5,730	8,285	7,872	2,977	1,216	812	688
MEAN	27.5	53.3	288	722	475	185	276	254	99.2	39.2	26.2	22.9
MAX	61	131	1,430	3,190	1,190	454	665	354	166	51	34	27
MIN	11	26	36	108	210	113	202	165	53	28	20	15
AC-FT	1,690	3,170	17,690	44,360	26,360	11,370	16,430	15,610	5,900	2,410	1,610	1,360

CAL YR 1968 TOTAL 41,961.7 MEAN 115 MAX 1,450 MIN 8.0 AC-FT 83,230
WTR YR 1969 TOTAL 74,607.0 MEAN 204 MAX 3,190 MIN 11 AC-FT 148,000

DISCHARGE, IN CUBIC FEET PER SECOND, WATFR YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	35	35	147	331	558	104	63	42	30	25	22
2	19	34	36	130	298	255	102	60	41	32	24	22
3	20	35	35	122	276	221	95	60	39	28	25	21
4	24	34	35	115	258	318	93	60	43	29	24	22
5	24	126	35	106	238	256	93	55	43	29	23	23
6	25	129	35	103	221	213	94	64	38	30	21	23
7	24	88	35	102	203	331	93	65	36	29	20	23
8	26	63	44	167	191	439	90	73	42	30	23	23
9	28	53	42	1,180	179	357	87	85	49	28	23	20
10	27	46	43	540	171	435	88	75	78	30	22	20
11	27	43	103	396	165	304	87	69	51	27	22	19
12	27	44	1,350	440	224	271	85	70	47	26	24	17
13	27	41	644	620	457	247	87	70	46	26	22	21
14	31	40	227	1,120	259	237	90	59	54	21	20	20
15	59	39	148	810	208	215	86	53	47	28	20	19
16	91	39	112	2,190	431	202	84	58	45	28	20	21
17	96	38	107	1,100	403	187	81	56	42	26	19	22
18	51	38	115	810	280	174	73	60	39	24	16	23
19	44	38	2,400	755	242	169	79	65	32	28	21	22
20	40	37	1,340	822	220	162	70	64	35	24	20	21
21	38	37	1,820	1,320	204	154	62	60	34	25	22	22
22	38	37	625	1,270	189	145	68	57	33	26	23	20
23	37	36	1,040	4,120	178	139	65	59	34	26	23	20
24	37	36	670	2,760	170	134	59	56	35	26	22	24
25	36	35	615	1,210	160	130	64	52	33	26	22	20
26	36	35	388	968	154	126	71	45	35	19	23	21
27	36	35	305	1,140	149	120	71	50	37	26	23	21
28	36	35	245	631	196	115	66	50	42	26	23	22
29	36	35	205	502	------	113	64	49	50	23	19	21
30	35	35	179	430	------	109	66	46	35	24	17	21
31	35	------	161	374	------	108	------	44	------	25	22	------
TOTAL	1,131	1,396	13,174	26,500	6,655	6,944	2,417	1,852	1,257	825	673	636
MEAN	36.5	46.5	425	855	238	224	80.6	59.7	41.9	26.6	21.7	21.2
MAX	96	129	2,400	4,120	457	558	104	85	78	32	25	24
MIN	19	34	35	102	149	108	59	44	32	19	16	17
AC-FT	2,240	2,770	26,130	52,560	13,200	13,770	4,790	3,670	2,490	1,640	1,330	1,260

CAL YR 1969 TOTAL 78,937 MEAN 216 MAX 3,190 MIN 15 AC-FT 156,600
WTR YR 1970 TOTAL 63,460 MEAN 174 MAX 4,120 MIN 16 AC-FT 125,900

11373200 OAK RUN CREEK NEAR OAK RUN, CALIF.

LOCATION.--Lat 40°41'25", long 122°02'35", in SE¼NW¼ sec.25, T.33 N., R.2 W., Shasta County, on left bank 800 ft downstream from road bridge, 1.1 miles northwest of town of Oak Run, 3.2 miles upstream from Tracy Creek, and 12.2 miles northeast of Millville.

DRAINAGE AREA.--11.0 sq mi.

PERIOD OF RECORD.--May 1957 to September 1966. Annual maximums, water years 1969-70.

GAGE.--Crest-stage gage. Altitude of gage is 1,400 ft (from topographic map). Prior to Oct. 1, 1966, water-stage recorder at present site and datum.

AVERAGE DISCHARGE.--9 years, 16.1 cfs (11,660 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966, 1969-70 are contained in the following table:

Annual maximum discharge (*), peak discharges above base (300 cfs), and annual minimum discharge

	Maximum				Minimum	
Wtr yr	Date	Time	Discharge	G.H.	Date	Discharge
1966	Jan. 4, 1966	2000	*1,210	6.31	July 28, Aug. 4, 20, 1966	.70
	Apr. 12, 1966	0030	343	4.81		
1969	Jan. 21, 1969	-	*1,060	6.12		
1970	Jan. 23, 1970	-	*1,400	6.50		

Period of record: Maximum discharge, 2,160 cfs Apr. 6, 1963 (gage height, 7.05 ft), from rating curve extended above 240 cfs on basis of slope-area measurement at gage height 5.96 ft; no flow Aug. 17, 22, 1960.

REMARKS.--Records good. Some diversion above station for irrigation.

REVISIONS.--WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	4.0	6.4	19	46	22	12	6.9	4.1	1.6	1.7	1.5
2	3.2	4.7	5.9	15	22	20	12	5.3	4.1	1.7	1.6	1.6
3	3.6	5.3	5.6	94	39	19	10	5.8	3.4	1.9	1.3	1.6
4	2.9	5.7	5.4	560	61	18	8.5	5.7	2.5	1.8	.70	1.8
5	4.3	5.5	5.1	468	77	23	8.1	6.0	1.9	1.9	1.3	1.8
6	2.8	5.4	4.9	135	106	25	9.3	5.5	2.0	1.6	1.2	2.7
7	2.8	6.4	4.8	74	48	30	9.7	6.1	3.5	1.4	1.5	2.8
8	3.0	8.1	4.7	123	35	59	10	6.7	3.2	2.1	1.7	2.3
9	4.1	6.0	4.9	60	29	40	26	6.8	3.1	1.4	1.6	2.3
10	4.5	5.6	5.5	43	26	82	34	6.6	3.1	.90	1.2	1.9
11	4.7	5.8	5.6	33	22	42	45	5.5	2.4	1.5	1.2	1.5
12	4.1	17	5.6	27	20	34	83	5.4	1.6	1.5	1.5	2.2
13	3.6	28	5.2	23	18	36	28	5.4	2.4	2.0	1.3	2.8
14	3.9	31	5.1	20	17	31	21	5.6	1.6	1.6	.80	2.7
15	4.3	44	4.9	18	16	43	18	5.2	1.3	1.9	1.0	1.2
16	3.8	11	4.9	15	15	41	16	3.1	1.4	1.9	1.6	2.0
17	3.9	65	4.9	14	14	29	15	3.5	1.6	1.9	1.2	1.8
18	4.1	23	4.8	14	14	27	14	3.5	1.8	2.0	1.3	2.4
19	4.0	22	4.8	12	38	40	13	3.8	1.9	2.2	1.1	2.8
20	3.3	11	4.8	11	24	26	12	4.2	2.2	2.0	.70	2.6
21	3.1	7.6	4.8	11	19	24	11	4.2	3.0	1.9	1.0	2.5
22	3.2	6.4	4.7	12	24	21	11	4.1	1.8	1.9	1.3	2.5
23	2.8	7.3	4.6	11	32	20	9.6	3.9	1.2	1.8	1.6	2.9
24	3.4	20	5.1	9.8	49	19	9.5	3.7	1.8	1.7	1.2	2.6
25	3.8	47	8.7	9.4	40	18	8.8	3.8	1.8	1.5	1.7	3.1
26	3.6	40	7.5	9.0	33	17	8.4	4.3	2.0	1.8	1.9	3.1
27	4.6	23	8.1	8.5	26	15	7.8	3.4	2.5	1.2	2.1	2.9
28	4.5	11	101	8.1	24	15	7.4	3.7	2.1	.70	2.4	2.5
29	4.5	8.4	38	32	------	14	6.9	2.8	2.3	.80	2.7	2.3
30	3.7	7.1	94	39	------	13	7.0	3.0	2.2	1.2	1.9	2.0
31	4.0	------	63	24	------	13	------	3.4	------	1.6	1.6	------
TOTAL	115.5	492.3	443.3	1,951.8	934	876	492.0	146.9	69.8	50.90	44.90	68.7
MEAN	3.73	16.4	14.3	63.0	33.4	28.3	16.4	4.74	2.33	1.64	1.45	2.29
MAX	4.7	65	101	560	106	82	83	6.9	4.1	2.2	2.7	3.1
MIN	2.8	4.0	4.6	8.1	14	13	6.9	2.8	1.2	.70	.70	1.2
AC-FT	229	976	879	3,870	1,850	1,740	976	291	138	101	89	136

CAL YR 1965 TOTAL 6,422.50 MEAN 17.6 MAX 430 MIN 1.9 AC-FT 12,740
WTR YR 1966 TOTAL 5,686.10 MEAN 15.6 MAX 560 MIN .70 AC-FT 11,280

11374000 COW CREEK NEAR MILLVILLE, CALIF.

LOCATION.--Lat 40°30'19", long 122°13'56", in NE¼NW¼ sec.32, T.31 N., R.3 W., Shasta County, on right bank 2.9 miles upstream from mouth, 4.2 miles southwest of Millville, and 4.3 miles downstream from Little Cow Creek.

DRAINAGE AREA.--425 sq mi.

PERIOD OF RECORD.--October 1949 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 408.3 ft (revised) above mean sea level.

AVERAGE DISCHARGE.--21 years, 677 cfs (490,500 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (10,000 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Jan. 4, 1966	2215	*31,400	18.71	Feb. 23, 1968	0115	10,800	10.42	Dec. 21, 1969	1145	22,800	14.65
								Jan. 9, 1970	2030	22,000	14.44
Dec. 2, 1966	-	20,100	14.65	Dec. 10, 1968	1245	10,600	10.29	Jan. 14, 1970	1045	14,200	11.98
Jan. 21, 1967	0845	*23,100	15.71	Jan. 12, 1969	2200	*33,800	17.57	Jan. 16, 1970	1130	24,400	15.10
Jan. 28, 1967	2030	15,300	12.59	Jan. 19, 1969	2200	17,700	13.12	Jan. 21, 1970	2215	23,300	14.80
Jan. 31, 1967	0600	16,800	13.26	Feb. 12, 1969	0145	14,200	11.97	Jan. 24, 1970	0115	30,700	16.82
				Feb. 15, 1969	0030	12,900	11.49	Jan. 27, 1970	0215	15,000	12.24
Jan. 14, 1968	2330	*13,600	11.81					Mar. 1, 1970	0330	11,100	10.77
Feb. 17, 1968	1245	12,400	11.20	Dec. 12, 1969	1400	12,000	11.12				
Feb. 20, 1968	0100	13,600	11.82	Dec. 19, 1969	1545	*36,400	18.17				

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Aug. 13, 1966	.80	1969	Oct. 4, 1968	31.0
1967	Oct. 1, 1966	12.0	1970	Aug. 18, 19, 1970	16.0
1968	July 25, 1968	9.2			

Period of record: Maximum discharge, 45,200 cfs Dec. 27, 1951 (gage height, 21.55 ft); minimum daily, 0.80 cfs Aug. 13, 1966.

Flood in 1937 or 1940 reached a stage of 23.8 ft, from floodmarks. Probable backwater effect from high flows on Sacramento River.

REMARKS.--Records good. Numerous small diversions above station for irrigation. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

REVISIONS.--WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAP	APR	MAY	JUN	JUL	AUG	SEP
1	40	78	260	883	1,600	625	608	390	144	18	8.5	9.6
2	42	70	218	560	918	549	640	375	146	18	8.4	9.2
3	43	72	202	1,270	883	485	659	369	139	25	8.4	10
4	44	73	192	13,600	3,450	448	661	370	130	31	6.5	14
5	44	79	184	17,300	2,890	631	642	384	120	23	2.1	14
6	43	82	175	4,750	5,290	740	623	394	118	20	1.0	7.0
7	46	86	168	2,120	2,010	715	605	380	130	20	1.9	6.0
8	46	150	163	2,380	1,220	1,540	616	362	128	20	2.5	8.1
9	45	126	158	1,550	876	1,280	754	360	116	26	1.0	8.6
10	46	124	153	1,050	696	2,450	1,940	358	94	19	1.3	7.6
11	48	124	153	820	576	1,600	1,790	347	82	22	2.8	10
12	51	172	158	666	510	1,140	2,730	326	79	21	1.6	14
13	52	315	150	576	438	1,070	1,380	308	72	28	.80	17
14	57	855	143	505	402	1,040	1,030	302	56	23	1.0	16
15	64	1,760	138	460	371	1,020	883	283	54	19	2.6	20
16	64	560	135	434	339	1,320	834	270	50	25	2.2	19
17	64	1,190	133	388	323	897	843	240	50	21	4.7	17
18	63	1,820	130	363	315	777	800	225	38	21	7.6	20
19	64	612	130	335	666	1,060	694	215	39	13	10	27
20	63	505	130	307	918	783	621	208	45	10	8.1	25
21	62	303	128	292	554	673	567	207	42	12	9.2	20
22	57	239	128	299	470	592	525	201	43	9.2	7.3	18
23	58	216	126	299	794	541	502	183	42	7.6	5.5	18
24	53	834	190	278	1,500	513	497	164	37	4.2	5.0	19
25	52	1,140	480	264	1,130	492	500	154	36	7.0	4.2	19
26	50	1,220	359	250	1,480	482	499	141	37	9.2	2.2	13
27	48	1,290	267	242	864	487	460	148	36	9.2	4.2	10
28	53	520	2,020	264	706	503	439	142	30	5.5	9.2	9.2
29	56	359	1,620	420	------	528	420	143	23	5.0	9.4	8.1
30	57	288	2,710	1,460	------	563	402	135	17	8.4	7.6	7.0
31	72	------	2,620	748	------	586	------	144	------	6.8	9.2	------
TOTAL	1,647	15,262	13,921	55,133	32,189	26,130	24,164	8,228	2,173	507.1	156.00	420.4
MEAN	53.1	509	449	1,778	1,150	843	805	265	72.4	16.4	5.03	14.0
MAX	72	1,820	2,710	17,300	5,290	2,450	2,730	394	146	31	10	27
MIN	40	70	126	242	315	448	402	135	17	4.2	.80	6.0
AC-FT	3,270	30,270	27,610	109,400	63,850	51,830	47,930	16,320	4,310	1,010	309	834

CAL YR 1965 TOTAL 228,644.00 MEAN 626 MAX 16,800 MIN 22 AC-FT 453,500
WTR YR 1966 TOTAL 179,930.50 MEAN 493 MAX 17,300 MIN .80 AC-FT 356,900

11374000 COW CREEK NEAR MILLVILLE, CALIF.--CONTINUED

DISCHARGF, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	40	2,000	210	3,440	334	1,910	1,090	1,200	198	66	28
2	22	40	9,000	202	2,210	326	1,590	978	1,120	178	56	33
3	25	40	4,000	197	1,630	310	1,580	938	1,060	175	60	40
4	20	44	2,500	196	1,310	300	1,230	980	1,000	164	62	41
5	18	45	1,700	194	1,110	292	1,110	1,060	980	154	61	36
6	14	107	1,300	184	960	287	1,890	1,140	930	146	60	33
7	17	238	887	179	859	282	1,870	1,260	920	138	59	37
8	25	127	747	175	773	279	1,260	1,480	910	131	58	36
9	25	101	605	175	707	281	1,130	1,900	905	132	56	47
10	22	99	1,640	169	656	312	1,080	3,050	900	126	52	48
11	21	120	1,000	167	604	1,080	1,220	2,100	905	121	51	52
12	23	800	692	166	577	874	988	1,780	890	111	53	49
13	26	500	1,510	166	561	1,380	893	1,580	850	109	50	40
14	27	350	1,330	161	542	1,940	1,940	1,480	800	102	44	33
15	30	600	819	161	501	1,170	1,370	1,420	750	99	36	35
16	29	2,000	641	154	481	4,320	1,070	1,650	700	101	35	36
17	31	900	527	152	458	2,240	2,290	2,060	650	102	38	47
18	27	600	464	148	438	2,960	4,220	2,680	600	93	33	60
19	25	1,200	414	150	411	1,740	3,400	2,640	550	85	33	54
20	30	5,000	377	6,060	390	1,690	2,700	2,580	500	79	41	42
21	30	1,600	350	17,600	376	1,450	1,900	2,540	450	84	41	44
22	37	1,000	320	4,240	367	1,190	1,650	2,580	400	74	29	42
23	43	750	312	1,860	356	1,700	2,320	2,590	360	74	24	49
24	41	600	321	3,600	359	1,410	2,830	2,490	340	73	28	52
25	35	500	286	2,390	504	1,380	3,060	2,150	321	78	36	49
26	36	450	271	5,270	399	1,340	1,930	1,900	298	73	40	41
27	38	400	249	4,920	357	1,320	4,170	1,750	275	73	38	40
28	44	700	236	8,620	343	1,300	2,030	1,600	258	60	40	44
29	45	3,000	231	9,280	------	1,290	1,530	1,500	242	71	35	48
30	45	900	223	6,480	------	1,280	1,270	1,400	220	73	35	54
31	42	------	215	8,760	------	1,330	------	1,300	------	67	32	------
TOTAL	905	22,851	35,167	82,386	21,679	37,387	57,431	55,646	20,284	3,344	1,382	1,290
MEAN	29.2	762	1,134	2,658	774	1,206	1,914	1,795	676	108	44.6	43.0
MAX	45	5,000	9,000	17,600	3,440	4,320	4,220	3,050	1,200	198	66	60
MIN	12	40	215	148	343	279	893	938	220	60	24	28
AC-FT	1,800	45,320	69,750	163,400	43,000	74,160	113,900	110,400	40,230	6,630	2,740	2,560

CAL YR 1966 TOTAL 208,023.50 MEAN 570 MAX 17,300 MIN .80 AC-FT 412,600
WTR YR 1967 TOTAL 339,752.00 MEAN 931 MAX 17,600 MIN 12 AC-FT 673,900

NOTE.--NO GAGE-HEIGHT RECORD MAY 4 TO JUNE 23.

DISCHARGF, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	108	76	224	157	1,170	1,150	669	245	123	29	16	33
2	256	74	164	150	3,980	1,020	675	249	116	21	18	31
3	129	73	1,450	146	2,580	933	590	244	118	17	17	26
4	123	80	1,720	140	1,510	863	551	254	120	21	16	19
5	121	88	2,200	136	1,110	858	545	249	183	27	16	21
6	110	88	479	133	969	819	522	237	265	23	13	26
7	104	88	1,670	131	891	763	488	222	234	20	11	29
8	97	95	629	134	752	727	467	218	155	17	14	33
9	92	109	349	161	734	661	456	214	137	17	11	27
10	93	110	282	3,510	718	606	445	204	125	17	11	28
11	88	108	245	1,120	640	571	465	197	114	16	14	29
12	81	106	215	604	572	934	456	214	109	15	17	29
13	73	107	183	915	513	1,720	430	324	101	20	17	29
14	72	190	144	6,550	519	1,680	413	384	97	19	27	38
15	78	189	156	9,320	508	1,760	402	277	88	23	26	39
16	75	139	163	3,600	645	4,300	378	236	81	19	27	32
17	64	126	156	1,800	7,000	2,410	349	215	65	17	32	25
18	60	121	164	1,050	2,800	1,460	333	208	63	16	31	28
19	66	206	189	766	4,040	1,090	317	214	55	13	58	31
20	73	162	174	620	7,290	909	310	325	47	15	346	31
21	90	134	162	547	6,150	802	296	283	46	13	411	38
22	92	121	156	530	5,480	740	278	279	48	17	194	40
23	85	117	157	460	8,260	707	270	280	44	10	110	35
24	89	116	176	409	4,550	666	262	253	38	10	92	31
25	95	117	203	379	2,820	735	254	233	39	9.2	75	34
26	90	120	214	353	2,150	736	251	227	34	10	77	31
27	90	117	253	332	1,740	652	248	197	29	9.5	74	29
28	82	126	237	321	1,450	614	238	169	26	12	69	30
29	83	142	201	1,990	1,270	603	237	157	21	13	51	29
30	78	260	182	3,900	------	603	233	138	24	14	42	34
31	74	------	166	1,880	------	606	------	133	------	13	39	------
TOTAL	2,911	3,705	13,063	42,244	72,811	32,698	11,828	7,279	2,745	512.7	1,972	915
MEAN	93.9	124	421	1,363	2,511	1,055	394	235	91.5	16.5	63.6	30.5
MAX	256	260	2,200	9,320	8,260	4,300	675	384	265	29	411	40
MIN	60	73	144	131	508	571	233	133	21	9.2	11	19
AC-FT	5,770	7,350	25,910	83,790	144,400	64,860	23,460	14,440	5,440	1,020	3,910	1,810

CAL YR 1967 TOTAL 300,508.0 MEAN 823 MAX 17,600 MIN 24 AC-FT 596,100
WTR YR 1968 TOTAL 192,683.7 MEAN 526 MAX 9,320 MIN 9.2 AC-FT 382,200

11374000 COW CREEK NEAR MILLVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	136	341	1,070	1,600	4,390	1,180	1,000	514	151	63	43
2	39	234	370	1,160	1,400	3,060	1,090	974	491	142	64	35
3	37	533	253	1,280	1,300	2,590	1,100	949	463	138	68	37
4	31	349	215	1,330	1,200	1,840	950	875	458	133	63	39
5	33	237	198	1,230	3,900	1,550	2,590	866	442	129	54	45
6	37	184	190	1,070	4,100	1,380	3,000	937	423	121	58	44
7	39	158	179	945	2,430	1,190	1,630	1,050	406	122	60	46
8	33	141	248	821	1,900	1,080	1,310	1,110	392	98	57	47
9	32	135	322	700	5,110	980	1,160	1,150	427	100	58	44
10	36	131	6,110	632	4,880	910	1,060	1,210	433	104	58	39
11	43	131	2,230	6,830	6,990	834	1,000	1,240	448	111	58	39
12	112	524	980	18,900	7,170	789	1,020	1,230	411	107	45	45
13	349	268	672	20,000	3,190	736	1,030	1,210	373	111	51	46
14	328	207	5,240	5,700	4,710	696	976	1,120	342	106	53	47
15	237	511	4,820	2,680	6,930	684	898	998	320	92	47	46
16	152	646	2,120	2,000	4,630	680	861	927	283	90	50	49
17	126	450	1,040	1,770	2,700	804	871	888	266	91	52	49
18	111	634	711	1,940	2,480	952	1,130	894	264	90	48	54
19	103	592	557	8,320	1,920	847	1,030	848	276	81	54	64
20	102	345	446	9,880	1,740	792	1,020	789	261	75	59	67
21	101	259	365	9,790	1,600	754	1,060	744	234	84	45	71
22	97	231	329	5,860	1,380	722	1,130	724	216	84	43	64
23	88	222	420	3,240	2,180	713	1,460	712	208	79	39	57
24	86	248	5,100	2,450	3,520	690	1,420	714	197	89	46	55
25	87	359	7,840	3,300	3,560	700	1,110	692	189	85	52	62
26	86	265	4,400	4,900	2,780	709	972	690	182	85	36	58
27	87	218	2,340	3,380	2,410	735	915	666	179	81	36	55
28	86	196	6,030	2,800	6,550	776	904	610	175	78	41	56
29	130	184	3,550	2,050	------	826	952	562	169	73	45	65
30	318	222	1,960	1,990	------	887	975	546	158	68	48	62
31	176	------	1,350	1,670	------	1,010	------	526	------	66	46	------
TOTAL	3,358	8,950	60,926	129,688	94,260	35,306	35,804	27,451	9,600	3,064	1,597	1,530
MEAN	108	298	1,965	4,183	3,366	1,139	1,193	886	320	98.8	51.5	51.0
MAX	349	646	7,840	20,000	7,170	4,390	3,000	1,240	514	151	68	71
MIN	31	131	179	632	1,200	680	861	526	158	66	36	35
AC-FT	6,660	17,750	120,800	257,200	187,000	70,030	71,020	54,450	19,040	6,080	3,170	3,030

CAL YR 1968 TOTAL 246,238.7 MEAN 673 MAX 9,320 MIN 9.2 AC-FT 488,400
WTR YR 1969 TOTAL 411,534.0 MEAN 1,127 MAX 20,000 MIN 31 AC-FT 816,300

NOTE.--NO GAGE-HEIGHT RECORD JAN. 9-13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	87	134	475	1,570	5,240	451	224	136	73	33	35
2	58	90	135	406	1,360	2,000	431	219	130	73	28	35
3	56	98	134	365	1,240	1,000	420	209	125	68	33	38
4	61	130	131	329	1,130	1,350	403	205	124	69	30	31
5	72	460	132	288	1,010	1,250	384	198	120	71	27	37
6	71	500	132	264	940	980	377	210	108	59	25	39
7	76	330	133	252	900	1,480	364	222	96	54	23	33
8	73	240	157	329	870	2,000	348	224	103	50	29	34
9	93	200	184	8,850	860	1,550	339	274	140	50	30	35
10	86	180	177	6,350	829	1,800	337	261	262	51	28	32
11	79	165	363	3,160	789	1,500	306	243	191	51	26	34
12	79	170	6,000	3,910	932	1,200	302	255	147	44	28	31
13	81	160	4,480	4,510	2,190	1,100	300	246	134	45	32	28
14	93	155	1,510	9,100	1,580	1,000	314	219	154	37	28	29
15	169	150	921	5,130	1,090	950	307	194	155	35	25	30
16	398	150	570	16,100	2,210	926	311	195	131	36	22	32
17	358	145	525	7,240	2,850	864	310	195	119	34	22	29
18	209	145	750	5,180	1,600	794	298	189	108	27	16	36
19	178	145	20,500	5,730	1,260	754	301	195	99	30	16	50
20	152	140	13,600	6,390	1,100	722	285	188	92	35	19	43
21	142	140	10,700	14,500	992	688	261	187	89	30	25	41
22	137	140	3,630	10,800	908	662	254	171	79	32	33	37
23	137	142	6,220	17,700	836	636	249	162	70	32	35	25
24	136	139	4,140	15,900	802	604	240	163	67	32	28	33
25	135	138	3,060	6,060	744	571	249	153	73	32	25	37
26	135	136	1,900	5,270	714	553	261	146	74	25	24	36
27	135	138	1,330	8,190	690	532	276	147	78	35	27	39
28	130	135	992	3,630	1,170	518	261	146	88	36	28	40
29	130	134	782	2,820	------	495	246	148	132	28	30	39
30	117	135	642	2,260	------	483	234	141	101	30	25	32
31	98	------	546	1,880	------	467	------	142	------	32	29	------
TOTAL	3,934	5,217	84,610	173,368	33,166	34,669	9,419	6,071	3,525	1,336	829	1,050
MEAN	127	174	2,729	5,593	1,185	1,118	314	196	118	43.1	26.7	35.0
MAX	398	500	20,500	17,700	2,850	5,240	451	274	262	73	35	50
MIN	56	87	131	252	690	467	234	141	67	25	16	25
AC-FT	7,800	10,350	167,800	343,900	65,780	68,770	18,680	12,040	6,990	2,650	1,640	2,080

CAL YR 1969 TOTAL 432,061 MEAN 1,184 MAX 20,500 MIN 35 AC-FT 857,000
WTR YR 1970 TOTAL 357,194 MEAN 979 MAX 20,500 MIN 16 AC-FT 708,500

11374060 SHINGLE CREEK NEAR SHINGLETOWN, CALIF.

LOCATION.--Lat 40°30'00", long 121°58'20", in NW¼SW¼ sec.34, T.31 N., R.1 W., Shasta County, on right bank 10 ft upstream from culvert on State Highway 44 and 4.5 miles west of Shingletown.

DRAINAGE AREA.--3.25 sq mi.

PERIOD OF RECORD.--Annual maximums, water years 1961-63. October 1963 to September 1967. Annual maximums, water years 1968-70.

GAGE.--Crest-stage gage. Altitude of gage is 2,410 ft (from topographic map). Oct. 1, 1963, to Sept. 30, 1967, water-stage recorder and crest-stage gage at present site and datum. Oct. 1, 1961, to Sept. 30, 1963, crest-stage gage at site 10 ft downstream at present datum.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 5, 1966	47	2.39	Long periods	0
1967	Jan. 21, 1967	608	a8.22	do.	0
1968	Feb. 19, 1968	103	3.01		
1969	Jan. 19, 1969	211	4.08		
1970	Jan. 23, 1970	166	3.60		

a From floodmarks in gage house.

Period of record: Maximum discharge, 608 cfs Jan. 21, 1967 (gage height, 8.22 ft, from floodmarks in gage house); no flow for several months in each year.

REMARKS.--Records good. No gage-height record Mar. 5 to May 23, July 25 to Sept. 30, 1966. No regulation or diversion above station. Rainfall data collected at this site are available in files of the district office.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.90	1.9	10	5.6	1.6	0				
2		0	.90	2.0	5.6	5.2	1.4	0				
3		0	.90	2.0	8.4	4.1	1.3	0				
4		0	.90	2.9	11	4.1	1.2	.10				
5		0	.90	26	6.8	5.6	1.0	0				
6		0	1.1	8.8	10	5.2	1.0	0				
7		0	1.3	6.0	6.0	4.8	1.1	0				
8		0	1.2	6.4	4.8	6.0	1.1	0				
9		0	1.2	4.8	4.1	6.0	1.5	0				
10		0	1.1	4.1	3.8	16	1.8	0				
11		0	1.3	3.6	3.8	8.8	1.9	0				
12		.60	1.3	3.3	3.8	7.6	1.8	0				
13		1.1	1.1	3.1	3.6	7.2	1.5	0				
14		1.8	.90	2.9	3.6	6.0	1.3	0				
15		4.5	.70	2.7	3.3	8.8	1.2	0				
16		1.4	.70	2.5	3.3	8.0	1.0	0				
17		4.1	.70	2.4	3.1	6.4	1.0	0				
18		2.2	.80	2.5	3.1	6.0	.90	0				
19		1.9	.80	2.5	7.2	9.2	.40	0				
20		1.5	.90	2.5	5.6	6.4	.30	0				
21		1.1	.90	2.4	3.8	5.6	.20	0				
22		1.0	.90	2.7	4.8	5.2	.10	0				
23		1.0	.90	2.9	5.6	3.6	.20	0				
24		1.6	1.9	2.9	12	3.3	.20	0				
25		1.9	2.9	2.7	10	3.3	.20	0				
26		2.0	1.5	2.5	9.6	3.3	.10	0				
27		1.5	1.6	2.4	6.8	2.9	.10	0				
28		1.3	6.0	2.4	6.0	2.5	.10	0				
29		1.1	2.9	12	------	2.4	.10	0				
30		.90	2.2	12	------	1.9	.10	0				
31		------	2.0	6.4	------	1.8	------	0	------			------
TOTAL	0	32.50	43.30	144.2	169.5	172.8	25.70	.10	0	0	0	0
MEAN	0	1.08	1.40	4.65	6.05	5.57	.86	.003	0	0	0	0
MAX	0	4.5	6.0	26	12	16	1.9	.10	0	0	0	0
MIN	0	0	.70	1.9	3.1	1.8	.10	0	0	0	0	0
AC-FT	0	64	86	286	336	343	51	.2	0	0	0	0

CAL YR 1965 TOTAL 980.70 MEAN 2.69 MAX 119 MIN 0 AC-FT 1,950
WTR YR 1966 TOTAL 588.10 MEAN 1.61 MAX 26 MIN 0 AC-FT 1,170

11374060 SHINGLE CREEK NEAR SHINGLETOWN, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	17	2.0	22	3.4	15	7.5	1.8			
2		0	32	2.0	16	3.0	8.0	7.0	2.4			
3		0	18	2.0	13	3.0	7.2	6.8	2.1			
4		0	9.4	2.0	10	3.0	6.6	6.5	1.9			
5		0	7.5	2.0	8.0	2.8	9.0	6.4	1.6			
6		.10	5.3	2.0	6.6	2.7	21	6.5	1.8			
7		0	4.5	2.0	6.1	2.6	13	7.0	1.5			
8		0	4.1	2.0	5.7	2.5	9.8	8.0	1.4			
9		0	3.7	2.0	5.3	2.3	8.2	10	1.6			
10		0	8.0	2.0	4.9	2.2	8.6	14	1.4			
11		0	4.1	2.0	4.5	29	9.2	10	1.5			
12		1.8	3.7	2.0	4.5	23	7.3	11	1.4			
13		1.2	8.9	2.0	4.5	18	6.6	9.6	1.2			
14		1.0	4.9	2.0	4.5	13	10	8.5	1.1			
15		1.6	4.1	2.0	4.5	27	8.6	7.7	1.0			
16		5.1	3.7	2.0	4.1	17	6.6	6.9	.80			
17		1.3	3.0	2.0	4.1	15	12	6.2	.70			
18		.80	2.6	2.0	3.7	13	21	5.4	.50			
19		5.6	2.6	2.0	3.4	10	25	5.0	.40			
20		11	2.4	30	3.4	10	13	4.5	.40			
21		5.3	2.0	142	3.0	9.2	11	4.1	.40			
22		4.9	2.0	36	3.0	8.4	10	3.7	.30			
23		2.4	2.4	16	3.0	11	16	3.4	.30			
24		1.6	2.6	18	4.5	8.9	26	3.0	.20			
25		1.2	2.6	13	7.0	7.8	17	2.6	.20			
26		1.0	2.4	24	4.1	7.0	12	2.5	.20			
27		1.0	2.0	34	3.7	6.6	32	2.3	.20			
28		6.6	2.0	54	3.4	6.8	13	2.1	.10			
29		10	2.4	43	------	6.5	9.5	2.0	.10			
30		4.1	2.4	53	------	6.2	8.3	3.4	.10			
31		------	2.0	51	------	11	------	2.2	------			------
TOTAL	0	67.60	174.3	552.0	170.5	291.9	380.5	185.8	28.60	0	0	0
MEAN	0	2.25	5.62	17.8	6.09	9.42	12.7	5.99	.95	0	0	0
MAX	0	11	32	142	22	29	32	14	2.4	0	0	0
MIN	0	0	2.0	2.0	3.0	2.2	6.6	2.0	.10	0	0	0
AC-FT	0	134	346	1,090	338	579	755	369	57	0	0	0

CAL YR 1966 TOTAL 754.20 MEAN 2.07 MAX 32 MIN 0 AC-FT 1,500
WTR YR 1967 TOTAL 1,851.20 MEAN 5.07 MAX 142 MIN 0 AC-FT 3,670

11374100 BEAR CREEK NEAR MILLVILLE, CALIF.

LOCATION.--Lat 40°31'50", long 122°06'30", in SE¼NE¼ sec.20, T.31 N., R.2 W., Shasta County, on right bank 10 ft downstream from bridge on State Highway 44 and 3.8 miles southeast of Millville.

DRAINAGE AREA.--75.7 sq mi (revised).

PERIOD OF RECORD.--October 1959 to September 1967 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 720 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 81.6 cfs (59,080 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-67 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 4, 1966	2,430	9.72	Aug. 22, 1966	3.5
1967	Jan. 21, 1967	4,430	12.35	Oct. 1, 1966	5.9

Period of record: Maximum discharge, 4,430 cfs Jan. 21, 1967 (gage height, 12,35 ft), from rating curve extended above 400 cfs; minimum, 2.6 cfs Sept. 9, 1961.

REMARKS.--No storage or diversion above station.

COOPERATION.--Records furnished by California Department of Water Resources and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	14	39	69	150	101	85	33	16	8.1	6.2	5.9
2	11	13	37	57	102	90	80	32	17	9.2	5.5	5.5
3	11	14	35	61	104	81	77	30	18	8.3	5.1	5.5
4	12	16	34	1,010	245	77	70	29	18	8.5	5.0	4.8
5	13	16	33	1,070	173	88	67	28	16	9.6	4.7	4.6
6	14	16	32	363	222	95	66	28	16	11	4.6	4.4
7	13	19	32	232	146	97	63	27	18	9.5	4.8	4.4
8	11	27	31	207	110	174	63	26	18	10	4.5	4.6
9	11	21	31	164	93	164	64	24	16	8.4	4.4	4.8
10	11	21	30	130	82	344	83	26	15	9.0	4.4	5.5
11	11	21	30	109	72	244	182	23	15	8.8	4.2	5.5
12	9.6	38	33	93	68	191	170	23	14	8.6	4.3	6.6
13	9.8	44	29	82	62	207	118	23	13	8.3	4.6	6.9
14	10	87	29	75	59	178	94	22	12	7.8	5.1	6.1
15	12	113	28	68	55	195	80	22	11	8.6	4.9	6.4
16	12	51	28	64	52	217	75	23	12	9.0	3.9	5.7
17	13	93	27	60	49	166	71	22	10	7.9	3.9	5.5
18	13	154	27	57	48	149	68	21	9.8	6.9	3.7	6.6
19	13	90	27	53	96	249	62	19	10	7.0	3.7	7.6
20	14	57	26	50	164	179	59	18	11	7.2	3.7	6.1
21	15	43	27	49	98	152	57	19	9.6	5.6	3.7	5.5
22	15	39	27	50	88	132	56	16	9.9	5.6	3.5	6.4
23	15	37	25	50	140	119	52	15	9.2	6.0	4.1	6.1
24	15	128	45	48	197	113	48	15	9.8	7.3	4.4	6.1
25	13	98	97	47	181	105	46	15	10	6.9	4.4	6.6
26	12	89	56	44	176	101	43	15	11	5.5	4.2	6.9
27	13	87	48	42	131	98	39	15	11	5.2	4.2	6.9
28	12	57	350	40	112	95	38	15	9.5	5.0	4.2	6.9
29	13	48	179	114	------	92	36	16	8.3	4.9	4.2	6.6
30	13	43	115	208	------	90	34	16	8.2	5.2	4.4	5.7
31	13	------	111	97	------	87	------	16	------	5.8	5.0	------
TOTAL	384.4	1,594	1,698	4,863	3,275	4,470	2,146	672	382.3	234.7	137.5	176.7
MEAN	12.4	53.1	54.8	157	117	144	71.5	21.7	12.7	7.57	4.44	5.89
MAX	15	154	350	1,070	245	344	182	33	18	11	6.2	7.6
MIN	9.6	13	25	40	48	77	34	15	8.2	4.9	3.5	4.4
AC-FT	762	3,160	3,370	9,650	6,500	8,870	4,260	1,330	758	466	273	350

CAL YR 1965 TOTAL 34,866.1 MEAN 95.5 MAX 2,010 MIN 8.0 AC-FT 69,160
WTR YR 1966 TOTAL 20,033.6 MEAN 54.9 MAX 1,070 MIN 3.5 AC-FT 39,740

11374100 BEAR CREEK NEAR MILLVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	10	300	39	576	85	260	276	88	23	9.3	7.5
2	6.4	10	837	37	433	82	193	285	106	23	9.3	8.1
3	6.9	10	489	37	350	79	201	264	87	22	9.6	8.4
4	6.9	10	265	37	300	76	176	264	72	22	9.6	10
5	7.6	11	323	37	255	73	204	264	71	22	9.3	8.1
6	7.4	31	182	35	227	72	572	244	71	19	9.3	7.8
7	7.6	30	137	35	206	69	406	229	67	19	10	8.4
8	7.6	19	114	35	186	67	309	225	63	18	9.6	8.4
9	7.6	18	98	34	173	65	273	231	60	19	11	8.7
10	7.1	17	156	33	158	72	278	326	57	19	10	8.4
11	6.9	19	111	33	147	316	312	266	56	17	9.3	9.0
12	7.6	48	91	33	140	214	253	227	56	16	9.3	10
13	8.5	30	180	33	134	233	225	193	53	15	9.3	10
14	8.5	30	149	32	133	240	244	173	48	14	9.6	7.2
15	8.8	44	107	32	126	208	253	161	48	11	8.1	7.8
16	9.7	132	89	31	119	756	222	155	42	13	7.8	7.2
17	10	37	79	31	115	348	290	147	40	15	7.5	8.4
18	8.8	28	71	31	108	285	381	139	41	13	7.5	12
19	8.2	72	65	30	102	231	451	130	41	13	7.8	8.7
20	10	423	61	470	95	290	373	120	38	11	7.8	9.3
21	10	164	57	1,910	92	248	312	111	36	12	7.2	10
22	11	185	53	684	89	210	295	104	33	12	7.2	10
23	11	69	55	381	87	244	345	98	31	11	9.3	9.3
24	11	49	53	395	89	203	381	92	29	12	8.4	10
25	9.7	40	49	292	159	173	457	85	29	13	7.2	11
26	11	35	47	430	113	155	358	76	28	12	7.0	8.4
27	11	31	45	551	99	139	558	74	27	13	7.8	8.7
28	11	93	42	814	90	150	409	78	27	14	8.7	9.0
29	11	298	43	1,020	------	147	333	81	26	13	6.7	8.7
30	10	108	42	870	------	147	300	75	24	11	6.7	8.7
31	10	------	39	906	------	204	------	71	------	11	6.4	------
TOTAL	274.7	2,101	4,429	9,368	4,901	5,881	9,624	5,264	1,495	478	263.6	267.2
MEAN	8.86	70.0	143	302	175	190	321	170	49.8	15.4	8.50	8.91
MAX	11	423	837	1.910	576	756	572	326	106	23	11	12
MIN	5.9	10	39	30	87	65	176	71	24	11	6.4	7.2
AC-FT	545	4,170	8,780	18.580	9,720	11,660	19,090	10,440	2,970	948	523	530

CAL YR 1966 TOTAL 23,161.9 MEAN 63.5 MAX 1.070 MIN 3.5 AC-FT 45,940
WTR YR 1967 TOTAL 44,346.5 MEAN 121 MAX 1,910 MIN 5.9 AC-FT 87,960

11374400 MIDDLE FORK COTTONWOOD CREEK NEAR ONO, CALIF.

LOCATION.--Lat 40°22'03", long 122°34'19", in SW¼NW¼ sec.17, T.29 N., R.6 W., Shasta County, on right bank 700 ft downstream from Poverty Gulch, 4.6 miles upstream from North Fork Cottonwood Creek, and 7.8 miles southeast of Ono. Prior to Nov. 1, 1969, at site 4.2 miles downstream.

DRAINAGE AREA.--244 sq mi. Area at site used prior to Nov. 1, 1969, 249 sq mi.

PERIOD OF RECORD.--October 1956 to September 1970.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 610 ft (from topographic map). Prior to Nov. 1, 1969, at site 4.2 miles downstream at different datum.

AVERAGE DISCHARGE.--14 years, 251 cfs (181,800 acre-ft per year); median of yearly mean discharges, 184 cfs (133,000 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (1,800 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Nov. 14, 1965	2330	2,640	9.16	Feb. 2, 1968	0030	1,880	8.66	Feb. 28, 1969	2400	2,700	9.74
Jan. 4, 1966	1930	*3,890	10.30	Feb. 19, 1968	2215	*6,020	12.47				
Feb. 4, 1966	0145	1,960	8.26					Dec. 21, 1969	1400	3,410	5.23
				Dec. 10, 1968	1515	2,390	9.39	Dec. 23, 1969	1200	2,340	4.54
Dec. 5, 1966	0300	3,470	10.44	Dec. 24, 1968	1430	1,800	8.50	Jan. 14, 1970	0900	4,420	5.80
Jan. 21, 1967	0900	2,290	9.26	Jan. 13, 1969	0630	*5,630	12.19	Jan. 16, 1970	0200	8,050	7.97
Jan. 24, 1967	0415	1,880	8.66	Jan. 21, 1969	1015	5,090	11.79	Jan. 23, 1970	1900	*12,900	11.30
Jan. 26, 1967	0745	2,900	9.94	Feb. 5, 1969	2100	2,290	9.26	Jan. 27, 1970	0030	11,300	9.42
Jan. 29, 1967	1200	*4,390	11.21	Feb. 8, 1969	2345	2,450	9.46	Mar. 4, 1970	1530	3,150	4.06
				Feb. 11, 1969	1900	2,840	9.88	Mar. 7, 1970	2230	1,870	3.35
Jan. 14, 1968	2315	2,860	9.90	Feb. 24, 1969	0545	2,830	9.87				

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Aug. 24, Sept. 6, 1966	4.5	1969	Oct. 1, 1968	5.7
1967	Oct. 1, 1966	5.0	1970	Sept.13, 1970	6.1
1968	Aug. 12, 1968	5.2			

Period of record: Maximum discharge, 13,500 cfs Dec. 22, 1964 (gage height, 19.08 ft, from floodmarks in gage well, site and datum then in use), from rating curve extended above 7,800 cfs on basis of slope-area measurement of peak flow; minimum daily, 1.2 cfs Aug. 28, 1964.

REMARKS.--Records fair. No regulation or diversion above station. Water-quality records at or near this gaging station for the water years 1966-70 are published in reports of the Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	13	87	146	500	299	623	127	64	23	9.7	11
2	11	13	81	133	349	288	588	125	61	23	9.2	8.9
3	11	13	76	151	579	268	521	124	60	23	8.5	7.5
4	10	14	75	2,660	1,160	259	473	126	58	23	7.5	6.0
5	10	16	75	2,300	772	361	435	134	55	22	6.0	4.8
6	11	17	81	1,440	653	343	419	127	54	21	5.5	4.5
7	12	19	83	948	552	367	410	121	67	20	5.6	5.3
8	11	44	81	762	458	422	385	116	63	21	5.1	5.8
9	11	39	77	695	378	684	352	114	56	21	5.6	5.8
10	11	27	72	572	327	1,130	356	115	51	21	5.9	5.9
11	11	23	70	472	297	934	363	114	47	21	6.3	5.7
12	12	30	71	372	284	778	365	107	45	21	6.0	5.9
13	10	144	66	320	264	789	308	102	43	21	6.4	8.2
14	11	402	62	320	251	805	271	98	41	21	6.0	7.9
15	12	505	59	392	237	763	252	96	39	21	5.3	8.3
16	13	156	56	432	226	681	255	94	45	19	6.3	8.5
17	13	209	53	396	220	597	262	89	40	18	7.1	7.6
18	13	276	52	346	219	532	244	85	36	17	7.6	8.0
19	14	231	52	300	343	482	221	83	33	16	6.0	11
20	15	167	47	264	289	432	203	82	32	15	5.5	12
21	14	136	50	244	273	400	189	84	32	13	5.5	9.8
22	14	122	50	228	276	370	178	82	32	13	5.4	8.4
23	13	115	44	213	295	353	171	78	33	12	5.1	7.8
24	13	126	53	201	313	350	167	74	32	11	4.5	7.7
25	12	140	61	190	380	375	165	72	31	10	5.3	7.0
26	12	136	60	183	410	428	160	71	28	10	5.7	6.5
27	12	127	57	175	329	510	152	70	26	10	6.3	6.5
28	12	108	274	168	309	570	145	69	24	10	5.9	6.0
29	13	99	297	208	------	591	138	70	24	9.8	4.7	5.5
30	13	94	180	316	------	612	132	69	23	9.4	6.8	5.0
31	13	------	169	276	------	613	------	69	------	9.7	9.6	------
TOTAL	374	3,561	2,671	15,823	10,943	16,386	8,903	2,987	1,275	525.9	195.9	218.8
MEAN	12.1	119	86.2	510	391	529	297	96.4	42.5	17.0	6.32	7.29
MAX	15	505	297	2,660	1,160	1,130	623	134	67	23	9.7	12
MIN	10	13	44	133	219	259	132	69	23	9.4	4.5	4.5
AC-FT	742	7,060	5,300	31,380	21,710	32,500	17,660	5,920	2,530	1,040	389	434

CAL YR 1965 TOTAL 91,711.3 MEAN 251 MAX 3,070 MIN 8.8 AC-FT 181,900
WTR YR 1966 TOTAL 63,863.6 MEAN 175 MAX 2,660 MIN 4.5 AC-FT 126,700

11374400 MIDDLE FORK COTTONWOOD CREEK NEAR ONO, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	9.5	310	103	1,960	210	528	505	223	85	25	14
2	5.5	10	585	100	1,480	204	420	480	406	82	24	14
3	6.5	11	727	97	1,110	199	404	482	296	78	23	13
4	7.0	12	871	94	980	195	404	512	232	73	22	13
5	6.0	12	2,260	92	940	186	413	562	311	70	20	13
6	6.5	16	910	88	868	179	752	558	296	69	20	13
7	7.2	23	562	85	811	172	1,020	608	253	66	20	13
8	8.1	23	423	82	740	168	814	743	231	64	21	13
9	7.7	19	338	81	677	165	755	784	217	62	20	13
10	7.6	17	680	78	647	201	797	668	203	58	20	13
11	7.7	18	460	77	605	298	888	530	190	56	19	14
12	8.1	22	456	76	598	308	786	446	194	55	19	13
13	8.0	31	567	74	585	314	740	396	186	52	19	13
14	8.0	35	609	74	515	272	701	380	171	47	18	12
15	8.0	92	472	74	438	253	659	403	163	45	17	12
16	8.0	146	391	73	392	792	588	453	157	44	16	12
17	8.0	94	329	72	358	780	686	477	151	42	16	12
18	8.0	60	285	71	340	635	608	463	146	40	16	14
19	8.0	68	260	70	324	558	632	409	143	37	15	15
20	8.0	422	235	442	298	614	635	395	141	37	14	14
21	8.0	383	215	1,800	280	716	585	386	134	36	14	13
22	8.0	330	192	993	268	662	600	371	123	36	13	12
23	9.0	186	175	478	256	677	790	344	117	34	13	12
24	9.0	134	160	1,150	249	615	780	312	112	33	14	12
25	9.5	108	148	709	249	530	780	280	107	33	14	12
26	9.5	94	139	1,810	237	456	737	256	105	30	15	12
27	10	87	129	1,380	226	410	710	239	101	30	16	11
28	10	98	123	2,340	217	384	662	230	97	29	17	11
29	10	189	117	3,880	------	354	605	223	92	30	17	11
30	9.5	185	113	2,870	------	390	542	207	89	29	15	11
31	9.0	------	108	2,770	------	442	------	199	------	26	15	------
TOTAL	248.4	2,934.5	13,349	22,183	16,648	12,339	20,021	13,301	5,387	1,508	547	380
MEAN	8.01	97.8	431	716	595	398	667	429	180	48.6	17.6	12.7
MAX	10	422	2,260	3,880	1,960	792	1,020	784	406	85	25	15
MIN	5.0	9.5	108	70	217	165	404	199	89	26	13	11
AC-FT	493	5,820	26,480	44,000	33,020	24,470	39,710	26,380	10,690	2,990	1,080	754

CAL YR 1966 TOTAL 73,789.5 MEAN 202 MAX 2,660 MIN 4.5 AC-FT 146,400
WTR YR 1967 TOTAL 108,845.9 MEAN 298 MAX 3,880 MIN 5.0 AC-FT 215,900

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	16	37	92	388	760	277	101	60	19	9.2	8.8
2	14	15	33	86	1,210	670	270	100	59	18	8.2	8.3
3	42	16	197	79	989	579	237	98	62	18	7.4	7.8
4	31	16	156	73	731	525	224	97	58	17	6.6	7.3
5	24	17	342	69	646	489	215	94	58	17	6.4	7.0
6	23	17	144	64	607	427	204	92	64	16	6.1	7.3
7	21	17	217	60	638	376	195	90	59	15	6.2	7.6
8	20	18	163	62	599	343	189	88	54	13	7.1	7.6
9	19	19	99	68	561	320	183	86	51	12	6.7	7.5
10	18	20	88	373	563	299	181	85	47	12	6.0	7.1
11	17	20	84	211	538	281	181	83	47	12	5.5	6.9
12	17	20	83	145	477	308	175	83	45	12	5.2	7.2
13	17	20	75	274	467	341	167	85	42	11	5.5	7.2
14	16	44	54	1,750	402	324	160	97	41	11	6.2	7.5
15	15	47	55	2,340	360	306	154	85	40	11	7.0	8.4
16	15	29	64	1,210	554	371	150	80	37	11	6.8	8.0
17	16	26	56	633	1,510	391	146	75	34	10	6.2	7.3
18	16	24	63	421	1,110	350	141	75	33	10	6.0	7.1
19	16	25	59	316	2,830	329	135	79	31	9.5	7.8	6.8
20	16	28	58	267	4,130	313	130	108	30	8.5	14	6.6
21	17	27	60	286	3,050	299	126	94	29	8.3	28	6.9
22	18	25	63	335	2,890	290	123	87	27	8.7	25	7.1
23	19	24	72	321	2,960	285	121	81	24	8.4	20	7.0
24	18	23	87	297	2,450	279	119	77	23	8.0	15	6.6
25	17	23	92	278	1,870	306	114	78	23	7.8	14	6.3
26	17	22	110	252	1,480	317	112	75	22	7.6	13	6.0
27	17	22	147	229	1,180	288	110	72	20	7.5	15	6.2
28	16	24	159	214	986	273	107	69	18	7.1	16	5.9
29	15	30	144	629	839	271	103	66	17	7.2	13	5.4
30	16	43	121	481	------	273	102	64	19	7.3	10	5.6
31	16	------	102	354	------	262	------	62	------	7.8	9.4	------
TOTAL	570	717	3,284	12,269	37,015	11,245	4,851	2,606	1,174	348.7	318.5	212.3
MEAN	18.4	23.9	106	396	1,276	363	162	84.1	39.1	11.2	10.3	7.08
MAX	42	47	342	2,340	4,130	760	277	108	64	19	28	8.8
MIN	11	15	33	60	360	262	102	62	17	7.1	5.2	5.4
AC-FT	1,130	1,420	6,510	24,340	73,420	22,300	9,620	5,170	2,330	692	632	421

CAL YR 1967 TOTAL 96,885.0 MEAN 265 MAX 3,880 MIN 11 AC-FT 192,200
WTR YR 1968 TOTAL 74,610.5 MEAN 204 MAX 4,130 MIN 5.2 AC-FT 148,000

11374400 MIDDLE FORK COTTONWOOD CREEK NEAR ONO, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	16	52	312	728	1,700	1,470	488	167	69	21	10
2	5.9	28	47	638	657	1,290	1,250	450	161	65	20	9.9
3	5.8	76	42	905	586	1,030	1,050	428	157	59	18	9.4
4	5.9	38	40	1,230	559	877	891	395	157	57	17	9.3
5	6.3	24	39	1,210	834	820	905	384	155	54	17	9.6
6	6.5	23	41	1,100	1,270	838	835	414	152	52	18	9.8
7	6.5	21	43	950	956	784	742	468	142	50	17	10
8	6.4	21	90	772	1,160	727	709	483	136	48	16	10
9	6.3	23	99	595	1,920	679	709	502	141	45	16	9.8
10	6.6	25	1,060	492	1,480	635	697	509	148	45	15	9.7
11	7.8	26	700	846	2,200	585	727	477	142	42	15	9.8
12	11	38	303	3,380	2,380	578	860	472	134	41	13	9.7
13	16	50	231	4,570	1,670	535	802	437	125	40	14	9.7
14	17	42	502	2,280	1,810	518	706	401	120	38	14	9.3
15	16	65	930	1,280	2,130	673	635	344	133	34	14	9.4
16	13	71	640	828	1,480	905	612	323	119	34	13	9.7
17	12	66	342	615	1,270	1,020	664	314	110	33	13	9.9
18	11	87	253	550	1,240	1,200	736	315	107	32	13	12
19	9.5	162	215	1,130	1,110	1,200	670	290	121	31	13	13
20	9.4	96	180	3,100	966	1,150	664	262	134	30	13	15
21	9.2	69	157	4,620	798	1,300	694	246	113	29	12	15
22	9.0	55	148	2,840	708	1,060	784	236	103	28	11	14
23	8.8	48	213	1,720	753	1,140	778	231	97	28	12	13
24	8.8	43	567	1,280	1,680	1,130	627	228	95	27	12	12
25	8.6	51	605	1,120	1,350	1,070	527	216	90	27	12	11
26	8.1	55	500	1,740	1,020	1,100	478	204	87	26	12	11
27	8.2	47	420	1,480	1,070	1,270	472	205	83	26	11	11
28	8.7	43	730	1,180	2,000	1,480	508	187	79	25	10	11
29	11	42	448	927	------	1,610	567	175	76	23	11	12
30	14	49	344	840	------	1,640	523	174	72	22	11	12
31	17	------	307	720	------	1,620	------	174	------	22	11	------
TOTAL	296.0	1,500	10,288	45,250	35,785	32,164	22,292	10,432	3,656	1,182	435	327.0
MEAN	9.55	50.0	332	1,460	1,278	1,038	743	337	122	38.1	14.0	10.9
MAX	17	162	1,060	4,620	2,380	1,700	1,470	509	167	69	21	15
MIN	5.7	16	39	312	559	518	472	174	72	22	10	9.3
AC-FT	587	2,980	20,410	89,750	70,980	63,800	44,220	20,690	7,250	2,340	863	649

CAL YR 1968 TOTAL 82,123.5 MEAN 224 MAX 4,130 MIN 5.2 AC-FT 162,900
WTR YR 1969 TOTAL 163,607.0 MEAN 448 MAX 4,620 MIN 5.7 AC-FT 324,500

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	22	25	212	1,060	442	240	119	65	36	13	8.2
2	9.4	22	25	187	882	385	230	116	64	33	12	8.2
3	9.8	22	25	170	762	361	225	114	62	31	12	7.8
4	10	22	25	160	674	1,330	215	112	59	29	12	7.4
5	12	31	25	146	614	602	210	106	57	26	12	7.4
6	12	50	25	136	557	535	205	106	56	24	12	8.2
7	12	38	25	133	513	924	200	109	53	24	11	8.7
8	13	36	32	146	480	1,280	191	109	54	22	11	8.7
9	13	37	38	593	452	1,090	187	114	79	21	11	8.2
10	15	35	33	1,010	432	910	187	112	72	20	10	7.8
11	14	31	41	857	423	788	183	106	59	20	10	7.4
12	14	30	765	848	423	710	179	112	57	19	9.1	7.4
13	14	28	877	1,010	602	650	191	112	57	19	8.7	6.1
14	14	26	788	3,100	470	626	187	102	69	18	8.2	7.0
15	25	26	511	2,360	432	590	176	95	64	18	8.2	7.8
16	103	26	226	6,410	650	546	172	93	57	18	8.2	8.2
17	63	26	170	3,760	1,010	524	168	93	53	18	8.2	8.2
18	41	26	231	1,940	736	491	160	97	50	17	8.2	7.8
19	28	25	1,060	2,470	650	470	153	95	47	16	8.2	7.4
20	24	25	1,340	2,600	579	432	150	95	44	15	8.2	7.8
21	21	25	2,180	4,460	546	404	150	93	44	14	8.2	8.2
22	21	25	1,050	4,460	502	394	150	93	42	14	8.2	8.7
23	20	25	1,710	7,820	491	361	146	89	39	14	8.2	9.1
24	20	25	1,330	8,270	461	329	140	87	38	14	8.2	8.7
25	21	25	938	4,470	442	313	137	87	37	14	8.2	8.7
26	21	24	686	3,910	414	299	134	82	36	14	8.2	9.1
27	21	24	511	6,770	394	287	134	83	36	14	8.2	8.2
28	20	24	399	3,420	404	281	130	81	50	14	8.7	8.2
29	20	24	325	2,290	------	263	127	76	49	14	8.2	8.7
30	20	24	277	1,650	------	257	124	72	40	14	7.8	8.7
31	20	------	240	1,270	------	251	------	69	------	14	8.2	------
TOTAL	681.0	829	15,933	77,038	16,055	17,125	5,181	3,029	1,589	598	291.5	242.0
MEAN	22.0	27.6	514	2,485	573	552	173	97.7	53.0	19.3	9.40	8.07
MAX	103	50	2,180	8,270	1,060	1,330	240	119	79	36	13	9.1
MIN	9.4	22	25	133	394	251	124	69	36	14	7.8	6.1
AC-FT	1,350	1,640	31,600	152,800	31,850	33,970	10,280	6,010	3,150	1,190	578	480

CAL YR 1969 TOTAL 168,966.0 MEAN 463 MAX 4,620 MIN 9.3 AC-FT 335,100
WTR YR 1970 TOTAL 138,591.5 MEAN 380 MAX 8,270 MIN 6.1 AC-FT 274,900

11375700 NORTH FORK COTTONWOOD CREEK NEAR IGO, CALIF.

LOCATION.--Lat 40°26'32", long 122°32'57", in SE¼NW¼ sec.21, T.30 N., R.6 W., Shasta County, near right bank on downstream side of bridge on Gas Point Road, 1.2 miles downstream from Huling Creek, 4.4 miles south of Igo, and 4.5 miles upstream from Middle Fork.

DRAINAGE AREA.--*88.7 sq mi.*

PERIOD OF RECORD.--October 1956 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 630 ft (from topographic map).

AVERAGE DISCHARGE.--14 years, 171 cfs (123,900 acre-ft per year); median of yearly mean discharges, 135 cfs (97,800 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Nov. 14, 1965	5,670	36.30	July 18, 21, 23, 1966	3.6
1967	Jan. 30, 1967	3,470	35.09	Nov. 1-5, 1966	4.2
1968	Feb. 22, 1968	2,760	34.36	July 23-25, 1968	.80
1969	Jan. 13, 1969	5,400	36.32	Oct. 1, 2, 1968	1.3
1970	Jan. 23, 1970	7,690	37.87	Aug. 30, 1970	1.3

Period of record: Maximum discharge, 11,000 cfs Dec. 22, 1964 (gage height, 39.45 ft in gage well, *41.7 ft, from floodmarks), from rating curve extended above 4,400 cfs on basis of slope-area measurement* of peak flow; minimum daily, 0.80 cfs July 23-25, 1968.

Flood of Dec. 21, 1955, reached a peak discharge of 14,300 cfs by slope-area measurement at site 1.2 miles upstream (above Huling Creek) adjusted for intervening drainage area.

REMARKS.--Some storage for irrigation above station in Rainbow Lake (capacity, 4,800 acre-ft). Some flow diverted upstream to Clear Creek basin by Happy Valley Irrigation Canal.

COOPERATION.--Records furnished by California Department of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1931: 1960(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	11	170	127	364	250	316	76	48	16	9.7	11
2	8.7	12	166	126	263	236	314	72	46	15	11	11
3	8.1	15	151	205	445	223	304	74	46	15	11	9.9
4	8.2	17	143	1,750	783	234	286	69	46	14	11	8.4
5	9.0	19	140	921	540	336	270	71	46	11	10	9.1
6	10	35	143	521	442	265	261	74	45	7.1	9.5	7.0
7	11	46	136	372	355	241	254	73	42	6.4	9.5	5.7
8	9.6	65	129	339	314	241	252	70	44	7.0	11	5.7
9	8.5	44	129	291	284	434	260	70	42	7.7	11	6.4
10	11	42	126	263	258	730	254	73	37	7.7	9.2	7.7
11	11	44	126	243	239	527	248	75	36	7.7	9.1	7.7
12	12	136	129	228	227	451	236	74	34	7.0	9.1	7.7
13	12	627	129	218	219	493	223	76	34	9.9	9.9	8.4
14	13	1,270	123	211	224	531	198	73	35	10	11	9.1
15	15	1,240	116	212	213	555	198	70	33	6.2	11	9.9
16	13	362	113	218	207	550	194	68	33	4.9	11	9.9
17	13	551	113	212	207	501	189	67	31	3.8	12	9.9
18	13	595	110	207	208	443	182	66	31	3.6	12	11
19	15	508	107	196	336	398	168	61	30	4.1	13	13
20	16	368	95	189	253	356	145	59	29	3.8	13	12
21	15	316	95	186	238	335	140	55	28	3.6	13	9.9
22	15	294	95	186	246	327	128	54	28	3.6	13	8.4
23	15	284	98	179	252	316	123	54	28	3.6	13	7.7
24	15	289	104	173	262	312	102	52	28	5.0	13	7.7
25	20	278	101	171	402	277	97	54	26	5.7	13	7.7
26	11	229	98	164	324	280	93	49	24	7.2	12	8.4
27	11	229	101	160	277	289	89	48	22	8.5	9.9	9.1
28	11	190	182	154	262	307	86	48	19	8.8	9.9	8.4
29	11	190	166	270	------	313	85	50	19	8.8	9.9	7.0
30	11	177	136	369	------	318	82	51	17	8.4	9.9	6.4
31	9.9	------	133	260	------	320	------	51	------	8.5	11	------
TOTAL	370.5	8,483	3,903	9,321	8,644	11,389	5,777	1,977	1,007	239.6	341.6	261.2
MEAN	12.0	283	126	301	309	367	193	63.8	33.6	7.73	11.0	8.71
MAX	20	1,270	182	1,750	783	730	316	76	48	16	13	13
MIN	8.1	11	95	126	207	223	82	48	17	3.6	9.1	5.7
AC-FT	735	16,830	7,740	18,490	17,150	22,590	11,460	3,920	2,000	475	678	518

CAL YR 1965 TOTAL 64,906.6 MEAN 178 MAX 2,390 MIN 8.1 AC-FT 128,700
WTR YR 1966 TOTAL 51,713.9 MEAN 142 MAX 1,750 MIN 3.6 AC-FT 102,600

11375700 NORTH FORK COTTONWOOD CREEK NEAR IGO, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	4.2	215	111	849	168	382	266	284	69	20	7.3
2	6.1	4.2	376	108	634	165	294	262	289	66	20	7.9
3	6.1	4.2	303	106	509	156	280	262	242	66	20	7.9
4	6.1	4.2	885	104	438	152	289	266	219	64	20	7.9
5	5.7	4.2	1,180	104	392	149	349	271	219	61	18	9.2
6	5.7	5.7	498	101	368	140	926	276	204	61	18	9.8
7	5.7	7.9	397	101	354	135	753	321	196	59	18	10
8	5.4	6.5	344	101	344	129	593	397	185	52	16	9.8
9	5.1	6.5	312	98	344	124	599	588	175	49	16	10
10	4.5	11	438	95	335	200	676	476	165	47	16	10
11	5.1	14	321	95	326	215	849	392	149	45	16	11
12	5.4	40	280	92	335	219	683	354	159	45	14	10
13	5.7	52	354	92	330	196	582	321	140	42	14	9.2
14	5.4	146	280	89	321	193	492	307	126	42	14	9.2
15	5.4	294	219	89	316	196	460	316	92	38	12	8.5
16	5.4	200	178	89	307	571	438	335	83	40	12	7.9
17	5.4	116	178	86	298	368	664	335	80	38	12	10
18	5.1	116	172	80	298	294	498	316	78	37	12	13
19	4.8	204	175	78	280	266	476	303	78	37	10	12
20	4.5	438	168	548	226	423	454	298	106	35	9.8	10
21	4.5	226	156	753	223	373	412	294	101	35	9.2	9.2
22	4.5	189	149	215	219	335	423	280	95	33	9.2	9.2
23	4.5	156	143	178	211	326	465	276	95	33	9.2	9.2
24	4.5	135	132	492	208	303	382	266	92	33	9.2	9.2
25	4.8	121	129	289	219	284	349	253	89	33	9.2	9.2
26	4.5	113	124	1,130	189	266	330	242	86	25	8.5	9.2
27	4.5	111	121	548	178	249	358	234	83	22	7.9	9.2
28	4.8	113	118	1,300	175	245	316	226	80	22	7.3	8.5
29	5.1	118	116	1,340	------	242	284	226	75	22	6.9	7.9
30	5.1	104	113	1,480	------	335	271	219	72	22	7.3	8.5
31	4.8	------	113	1,380	------	402	------	215	------	20	7.3	------
TOTAL	159.6	3,064.6	8,687	11,472	9,226	7,819	14,327	9,393	4,137	1,293	399.0	279.9
MEAN	5.15	102	280	370	330	252	478	303	138	41.7	12.9	9.33
MAX	6.1	438	1,180	1,480	849	571	926	588	289	69	20	13
MIN	4.5	4.2	113	78	175	124	271	215	72	20	6.9	7.3
AC-FT	317	6,080	17,230	22,750	18,300	15,510	28,420	18,630	8,210	2,560	791	555

CAL YR 1966 TOTAL 50,868.6 MEAN 139 MAX 1,750 MIN 3.6 AC-FT 100,900
WTR YR 1967 TOTAL 70,257.1 MEAN 192 MAX 1,480 MIN 4.2 AC-FT 139,400

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.3	18	36	54	264	294	151	56	27	5.1	2.5	3.0
2	16	17	54	52	568	272	132	50	26	5.1	2.5	2.8
3	29	19	218	50	294	262	119	46	26	5.4	2.0	2.8
4	18	19	146	50	223	245	115	46	26	4.5	1.8	2.5
5	17	20	161	48	196	240	111	46	26	3.9	1.8	2.2
6	17	19	76	48	191	196	107	46	27	3.9	1.8	2.5
7	16	18	165	46	196	191	104	32	27	3.6	1.5	2.5
8	14	20	73	46	186	181	104	39	26	3.9	1.6	2.5
9	13	21	62	54	191	175	104	36	26	3.9	1.8	2.5
10	14	20	56	247	186	170	100	39	25	4.2	1.5	3.0
11	14	20	56	92	175	161	96	37	25	4.2	1.5	3.3
12	14	20	54	76	165	191	96	37	25	4.2	1.2	2.2
13	13	22	54	165	186	312	92	46	22	3.6	1.2	2.2
14	13	54	52	435	165	245	88	46	21	2.2	1.5	2.8
15	14	26	52	303	165	212	88	41	20	2.2	2.2	3.3
16	15	25	46	186	283	262	88	36	18	2.5	2.0	3.6
17	16	23	43	132	996	228	84	34	17	3.0	2.0	3.6
18	17	23	52	107	419	212	81	36	16	2.8	2.0	3.3
19	19	26	46	96	1,300	202	78	39	13	1.3	4.8	3.0
20	16	25	45	88	1,010	196	76	64	13	1.3	11	2.8
21	16	25	45	88	1,050	186	73	45	13	1.2	13	3.0
22	16	25	48	88	1,810	181	73	43	13	1.0	8.8	3.0
23	16	25	56	84	1,330	170	76	39	13	.80	6.2	3.0
24	16	26	62	81	926	170	73	37	11	.80	4.2	3.0
25	16	27	62	81	696	170	70	37	7.6	.80	4.2	1.5
26	16	26	64	81	564	165	67	37	6.6	1.2	6.9	1.3
27	16	27	67	84	431	156	64	36	6.6	1.2	6.2	1.3
28	16	29	70	103	350	132	64	33	6.6	1.0	6.2	1.3
29	16	59	67	435	311	123	62	32	6.6	1.0	4.2	1.3
30	16	48	59	329	------	119	62	29	6.2	1.2	3.6	1.3
31	20	------	56	218	------	123	------	29	------	1.5	3.3	------
TOTAL	494.3	772	2,203	4,047	14,827	6,142	2,698	1,249	542.2	82.50	115.0	76.4
MEAN	15.9	25.7	71.1	131	511	198	89.9	40.3	18.1	2.66	3.71	2.55
MAX	29	59	218	435	1,810	312	151	64	27	5.4	13	3.6
MIN	9.3	17	36	46	165	119	62	29	6.2	.80	1.2	1.3
AC-FT	980	1,530	4,370	8,030	29,410	12,180	5,350	2,480	1,080	164	228	152

CAL YR 1967 TOTAL 61,815.20 MEAN 169 MAX 1,480 MIN 6.9 AC-FT 122,600
WTR YR 1968 TOTAL 33,248.40 MEAN 90.8 MAX 1,810 MIN .80 AC-FT 65,950

11375700 NORTH FORK COTTONWOOD CREEK NEAR IGO, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	12	33	120	331	1,030	593	305	149	34	9.9	8.7
2	1.3	91	34	209	276	749	614	290	136	31	9.1	6.8
3	1.5	103	32	222	258	602	567	275	116	33	7.7	9.1
4	1.5	54	32	244	630	545	523	262	69	31	8.4	9.2
5	2.3	24	30	241	418	497	567	252	61	31	7.0	8.6
6	2.8	20	23	233	931	474	509	243	57	29	7.6	8.8
7	2.9	23	23	214	1,460	439	461	267	57	28	8.1	10
8	2.5	24	41	182	1,000	403	437	272	57	27	6.5	11
9	2.2	27	32	154	1,700	374	426	268	62	25	5.8	11
10	3.1	26	515	137	1,670	339	418	270	74	19	8.6	11
11	5.4	27	155	844	1,320	319	431	255	89	19	7.2	11
12	12	25	100	2,680	868	333	468	245	76	19	8.7	11
13	10	20	141	2,840	868	295	445	236	64	19	7.7	10
14	8.0	29	286	828	1,390	285	421	234	64	18	8.3	10
15	8.2	57	444	472	1,320	261	410	210	60	18	7.2	11
16	7.4	41	232	445	907	244	390	199	55	17	8.4	11
17	7.3	33	152	395	811	412	394	191	52	17	8.1	11
18	7.2	35	121	398	814	369	378	183	53	16	7.3	12
19	6.6	37	104	719	707	341	372	175	57	16	7.1	13
20	8.2	36	81	1,380	621	388	371	169	57	15	12	13
21	7.8	34	63	1,780	565	436	379	163	53	15	13	14
22	8.9	32	58	1,040	518	426	405	152	50	13	13	13
23	6.5	30	145	828	531	452	441	144	47	13	11	13
24	5.6	31	886	681	906	465	387	152	45	13	11	11
25	5.3	34	416	642	546	470	357	154	42	13	10	11
26	5.9	34	251	749	483	483	340	162	39	13	10	11
27	6.4	34	278	544	574	517	326	152	38	12	10	10
28	6.8	33	678	455	1,300	562	320	148	37	12	10	6.5
29	9.0	33	233	384	------	588	313	156	34	11	10	8.8
30	15	33	147	340	------	610	310	161	34	10	10	9.3
31	13	------	114	294	------	619	------	149	------	10	10	------
TOTAL	191.9	1,072	5,880	20,694	23,723	14,327	12,773	6,494	1,884	597	278.7	314.8
MEAN	6.19	35.7	190	668	847	462	426	209	62.8	19.3	8.99	10.5
MAX	15	103	886	2,840	1,700	1,030	614	305	149	34	13	14
MIN	1.3	12	23	120	258	244	310	144	34	10	5.8	6.5
AC-FT	381	2,130	11,660	41,050	47,050	28,420	25,340	12,880	3,740	1,180	553	624

CAL YR 1968 TOTAL 36,923.00 MEAN 101 MAX 1,810 MIN .80 AC-FT 73,240
WTR YR 1969 TOTAL 88,229.40 MEAN 242 MAX 2,840 MIN 1.3 AC-FT 175,000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.6	12	18	157	600	170	178	83	18	21	2.0	2.1
2	8.1	9.9	17	130	505	127	159	76	18	19	2.0	2.0
3	7.8	11	17	77	417	105	157	70	20	17	1.9	2.2
4	7.8	8.3	17	54	361	585	132	71	18	16	2.0	2.5
5	8.0	15	17	51	313	300	128	69	16	15	2.4	2.5
6	8.0	19	17	52	285	242	126	70	16	15	2.8	2.5
7	7.9	17	18	51	256	431	125	66	16	13	2.6	3.2
8	8.3	25	26	84	232	371	112	59	34	13	2.5	3.4
9	13	17	20	574	190	356	120	69	65	14	2.5	3.8
10	11	14	24	511	155	338	118	68	36	9.7	2.7	3.9
11	8.9	14	71	481	129	342	107	67	30	8.3	2.5	3.9
12	7.9	12	615	429	127	317	66	69	26	8.1	2.5	3.9
13	8.4	12	190	748	320	319	114	68	26	7.8	2.7	3.9
14	11	12	279	2,470	131	331	75	61	35	7.2	2.6	3.9
15	34	12	153	1,820	104	309	61	55	31	6.6	2.4	3.9
16	29	11	127	2,610	393	298	86	54	25	6.5	3.1	3.9
17	21	9.3	116	1,580	312	228	106	49	23	6.4	3.6	3.9
18	18	11	156	1,270	211	295	103	48	20	5.4	3.4	3.9
19	15	11	905	2,110	187	287	99	27	25	4.7	2.1	3.9
20	14	13	1,020	1,850	165	261	99	29	23	4.3	1.8	3.9
21	13	19	1,330	3,170	151	227	97	28	20	3.9	1.8	3.7
22	11	18	509	2,300	132	239	95	37	21	2.2	2.1	3.6
23	12	18	1,090	4,170	115	233	92	31	20	2.2	1.8	3.6
24	13	18	541	3,140	128	223	83	27	20	2.1	1.8	3.6
25	13	19	468	1,790	115	207	82	29	20	2.4	1.9	2.9
26	13	18	361	2,320	111	210	82	26	20	2.3	2.2	2.8
27	13	18	310	2,690	92	178	81	23	20	2.5	2.8	2.7
28	13	17	262	1,560	220	154	80	24	22	2.7	2.5	2.7
29	13	18	231	1,210	------	193	80	23	24	2.9	2.5	2.8
30	11	17	202	916	------	190	81	24	17	2.3	1.3	3.0
31	9.7	------	182	683	------	185	------	18	------	2.0	1.6	------
TOTAL	390.4	445.5	9,309	41,058	6,457	8,251	3,124	1,518	725	245.5	72.4	98.5
MEAN	12.6	14.9	300	1,324	231	266	104	49.0	24.2	7.92	2.34	3.28
MAX	34	25	1,330	4,170	600	585	178	83	65	21	3.6	3.9
MIN	7.8	8.3	17	51	92	105	61	18	16	2.0	1.3	2.0
AC-FT	774	884	18,460	81,440	12,810	16,370	6,200	3,010	1,440	487	144	195

CAL YR 1969 TOTAL 91,230.4 MEAN 250 MAX 2,840 MIN 5.8 AC-FT 181,000
WTR YR 1970 TOTAL 71,694.3 MEAN 196 MAX 4,170 MIN 1.3 AC-FT 142,200

11375820 SOUTH FORK COTTONWOOD CREEK NEAR COTTONWOOD, CALIF.

LOCATION.--Lat 40°18'59", long 122°26'52", in SE¼ sec.32, T.29 N., R.5 W., Tehama County, on right bank 15 ft downstream from highway bridge, 0.7 mile upstream from Dry Fork, and 10.3 miles southwest of Cottonwood.

DRAINAGE AREA.--217 sq mi.

PERIOD OF RECORD.--October 1962 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 525 ft (from topographic map). Prior to Dec. 22, 1964, at site 85 ft upstream at different datum.

AVERAGE DISCHARGE.--8 years, 219 cfs (158,700 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 4, 1966	3,540	6.59	July 30-Sept.30, 1966	0
1967	Jan. 29, 1967	5,400	7.50	Long periods	0
1968	Jan. 15, 1968	4,450	7.13	do.	0
1969	Jan. 13, 1969	5,320	6.69	Several days	0
1970	Jan. 23, 1970	14,000	12.15	Long periods	0

Period of record: Maximum discharge, 14,000 cfs Jan. 23, 1970 (gage height, 12.15 ft); no flow for many days in each year.

REMARKS.--No gage-height record Mar. 6 to Apr. 3, 1967. Small diversion above station. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

COOPERATION.--Records furnished by California Department of Water Resources and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	4.3	55	91	230	124	542	146	95	12		
2	2.4	5.0	56	74	160	115	535	142	86	10		
3	1.8	5.2	61	65	418	106	479	151	81	10		
4	1.6	5.3	73	1,280	1,010	103	437	185	70	10		
5	1.7	6.2	92	2,350	394	128	418	205	60	9.3		
6	2.1	7.3	112	1,760	290	142	412	185	54	8.6		
7	3.2	14	109	1,130	230	160	418	170	60	8.6		
8	2.5	45	95	780	195	175	418	156	63	8.6		
9	2.1	56	81	620	170	240	400	156	54	7.9		
10	1.9	50	74	470	151	376	424	170	51	7.9		
11	2.1	45	64	364	133	394	424	170	45	8.6		
12	2.6	100	66	300	120	352	376	160	40	7.9		
13	2.6	300	54	260	115	376	328	146	43	8.6		
14	2.2	700	42	250	109	418	290	142	30	9.3		
15	2.2	890	37	245	103	412	275	133	32	10		
16	2.8	346	32	255	100	364	290	124	43	6.7		
17	3.5	451	27	245	100	300	328	124	26	6.7		
18	4.1	451	26	225	100	265	328	112	18	6.2		
19	6.1	295	26	210	165	250	290	115	17	6.2		
20	6.5	195	26	180	160	220	275	120	17	5.2		
21	7.3	128	24	156	124	200	245	128	17	4.4		
22	6.8	98	29	146	128	185	235	142	16	3.3		
23	6.9	83	24	138	142	175	220	120	14	2.7		
24	6.5	81	33	124	142	180	220	112	14	2.0		
25	5.9	87	45	115	170	195	230	109	14	1.6		
26	4.4	77	44	96	200	235	240	106	14	1.1		
27	4.4	66	38	103	142	295	212	109	13	.90		
28	4.6	63	280	100	128	364	200	109	13	.50		
29	5.1	60	388	120	------	430	175	112	12	.30		
30	4.8	60	175	170	------	486	156	103	12	0		
31	4.3	------	120	120	------	514	------	100	------	0		------
TOTAL	117.5	4,774.3	2,408	12,542	5,629	8,279	9,820	4,262	1,124	185.10	0	0
MEAN	3.79	159	77.7	405	201	267	327	137	37.5	5.97	0	0
MAX	7.3	890	388	2,350	1,010	514	542	205	95	12	0	0
MIN	1.6	4.3	24	65	100	103	156	100	12	0	0	0
AC-FT	233	9,470	4,780	24,880	11,170	16,420	19,480	8,450	2,230	367	0	0

CAL YR 1965 TOTAL 81,580.90 MEAN 224 MAX 2,600 MIN 1.6 AC-FT 161,800
WTR YR 1966 TOTAL 49,140.90 MEAN 135 MAX 2,350 MIN 0 AC-FT 97,470

11375820 SOUTH FORK COTTONWOOD CREEK NEAR COTTONWOOD, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	391	74	1,390	134	400	237	214	87	13	.70
2		0	844	72	954	129	300	237	326	82	12	.50
3		0	722	68	755	129	237	237	248	75	12	.50
4		0	860	68	635	129	188	287	220	71	10	.50
5		0	2,490	66	590	115	158	389	227	66	9.5	.50
6		0	907	66	533	115	451	414	227	62	9.0	.40
7		0	557	60	509	110	445	468	234	58	8.5	.40
8		0	414	60	474	110	321	702	227	55	8.2	.40
9		0	334	56	445	105	273	806	220	52	8.0	.40
10		0	352	56	433	110	315	670	220	48	7.4	.30
11		0	346	54	420	190	427	544	220	46	6.2	.30
12		0	352	54	414	180	280	440	207	42	5.1	.30
13		0	420	51	439	170	245	364	200	39	4.3	.30
14		.70	515	51	396	160	237	326	183	37	3.8	.30
15		83	414	54	352	150	220	370	183	34	3.2	.30
16		367	340	54	321	700	220	495	183	33	2.3	.30
17		171	280	54	294	600	252	607	177	31	1.8	.20
18		74	245	54	273	400	237	628	177	29	1.6	.30
19		84	204	54	252	250	252	565	177	28	.80	.20
20		805	196	131	196	360	252	551	160	26	.60	.30
21		551	163	2,000	188	330	237	579	131	26	.50	.50
22		273	139	1,660	196	310	237	579	137	24	.50	.70
23		90	129	830	179	290	252	551	128	23	.50	.60
24		37	115	1,250	163	280	266	488	124	21	.50	.50
25		14	106	737	163	270	273	402	121	21	.40	.50
26		9.0	99	1,530	153	250	252	345	121	19	.40	.50
27		8.1	93	1,190	144	230	252	376	112	18	.40	.40
28		18	87	2,140	134	220	245	268	105	17	.30	.40
29		427	84	4,010	------	210	237	220	98	17	2.7	.40
30		301	80	2,850	------	210	252	177	94	16	2.0	.40
31		------	78	2,560	------	270	------	172	------	14	.80	------
TOTAL	0	3,312.80	12,356	22,014	11,395	7,216	8,213	13,494	5,401	1,217	136.30	12.30
MEAN	0	110	399	710	407	233	274	435	180	39.3	4.40	.41
MAX	0	805	2,490	4,010	1,390	700	451	806	326	87	13	.70
MIN	0	0	78	51	134	105	158	172	94	14	.30	.20
AC-FT	0	6,570	24,510	43,660	22,600	14,310	16,290	26,770	10,710	2,410	270	24

CAL YR 1966 TOTAL 57,509.90 MEAN 158 MAX 2,490 MIN 0 AC-FT 114,100
WTR YR 1967 TOTAL 84,767.40 MEAN 232 MAX 4,010 MIN 0 AC-FT 168,100

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.20	4.6	28	66	235	490	221	112	70	11	0	3.0
2	.20	4.3	25	60	419	437	229	114	70	10	0	2.2
3	1.0	4.0	57	55	483	401	206	114	70	9.0	0	1.6
4	22	4.0	124	50	407	377	191	120	66	8.5	0	1.0
5	15	4.6	280	46	383	371	181	120	63	8.0	0	1.1
6	12	4.9	98	39	377	341	171	114	73	7.6	0	.50
7	10	4.9	110	32	401	320	161	109	69	7.2	0	.30
8	9.0	5.1	96	38	401	310	171	104	65	6.8	0	.10
9	8.2	5.4	62	45	389	295	174	102	61	5.2	0	.10
10	7.4	5.8	55	413	431	272	171	99	58	4.8	0	0
11	6.6	6.2	57	225	419	272	174	99	55	3.6	0	0
12	5.8	5.8	58	112	377	295	174	97	52	3.6	0	0
13	5.1	7.0	54	186	383	335	167	97	48	3.3	0	0
14	4.6	21	37	2,520	335	290	155	99	45	3.0	0	0
15	4.0	42	28	3,380	300	276	148	90	42	3.0	0	0
16	3.8	26	39	1,500	439	290	142	83	39	3.0	0	0
17	3.8	19	36	696	866	300	136	81	36	2.7	0	0
18	3.8	19	45	455	649	272	128	81	34	2.4	0	0
19	3.8	19	32	341	1,060	249	125	90	32	2.4	0	0
20	3.8	18	20	285	2,900	230	120	107	30	2.0	0	0
21	4.3	18	23	285	2,440	225	114	109	28	1.3	0	0
22	4.9	17	22	300	2,050	218	109	102	26	1.0	19	0
23	5.1	15	22	280	2,100	210	104	97	24	.80	13	0
24	6.6	15	28	258	1,730	210	97	90	22	.40	9.3	0
25	6.2	14	49	240	1,140	214	90	88	20	.20	7.9	0
26	5.8	14	80	220	830	225	90	83	18	.10	7.9	0
27	5.4	13	124	195	702	218	92	83	16	0	7.9	0
28	5.1	14	137	171	625	206	97	83	14	0	7.9	0
29	4.6	20	121	816	546	210	99	81	13	0	5.7	0
30	4.3	28	94	571	------	218	107	81	12	0	4.8	0
31	4.3	------	75	300	------	210	------	77	------	0	4.0	------
TOTAL	186.70	398.6	2,116	14,180	23,817	8,787	4,344	3,006	1,271	110.90	87.4	9.90
MEAN	6.02	13.3	68.3	457	821	283	145	97.0	42.4	3.58	2.82	.33
MAX	22	42	280	3,380	2,900	490	229	120	73	11	19	3.0
MIN	.20	4.0	20	32	235	206	90	77	12	0	0	0
AC-FT	370	791	4,200	28,130	47,240	17,430	8,620	5,960	2,520	220	173	20

CAL YR 1967 TOTAL 71,799.90 MEAN 197 MAX 4,010 MIN .20 AC-FT 142,400
WTR YR 1968 TOTAL 58,314.50 MEAN 159 MAX 3,380 MIN 0 AC-FT 115,700

11375820 SOUTH FORK COTTONWOOD CREEK NEAR COTTONWOOD, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	14	59	123	508	947	1,150	521	289	67	13	2.1
2	0	19	55	241	453	674	980	486	282	65	12	1.9
3	0	33	50	309	399	609	809	459	276	61	11	1.7
4	0	48	45	442	394	531	692	430	279	58	9.5	1.5
5	0	26	41	508	668	491	723	407	281	56	9.0	1.5
6	0	18	37	515	1,050	471	686	433	273	55	8.7	1.5
7	0	15	38	490	543	436	609	523	255	54	8.8	1.5
8	0	11	47	448	515	408	567	588	232	52	8.7	1.4
9	0	8.5	65	391	1,020	386	552	657	216	50	8.4	1.5
10	0	7.0	599	342	863	368	544	702	211	49	7.5	1.6
11	0	6.6	489	439	1,490	341	571	682	200	47	6.3	1.6
12	0	5.8	217	2,790	1,400	339	684	702	188	45	5.6	1.4
13	.10	27	114	4,450	1,010	320	682	666	179	46	5.3	1.4
14	2.5	26	177	1,920	919	303	621	604	172	46	6.1	1.6
15	10	40	394	1,020	1,230	307	563	518	162	44	6.0	1.6
16	9.4	28	309	670	755	349	535	486	169	42	5.6	1.6
17	7.9	20	136	559	626	400	570	497	160	39	4.8	1.6
18	6.3	106	82	526	615	484	646	514	153	37	4.2	2.7
19	4.8	260	66	986	549	475	616	474	240	34	4.3	3.7
20	4.8	190	58	3,220	510	487	611	420	202	31	4.9	6.5
21	4.3	140	45	4,200	471	617	655	385	172	27	4.5	6.9
22	4.3	109	44	2,340	475	544	777	377	142	25	4.6	6.7
23	4.2	87	52	1,510	598	586	821	392	119	23	4.0	7.2
24	3.9	79	343	1,130	1,350	615	671	404	112	22	3.8	6.7
25	3.4	72	470	1,020	726	624	566	377	97	22	3.6	5.1
26	3.1	71	342	1,910	621	661	502	343	88	21	3.8	4.0
27	3.2	62	242	1,350	708	779	482	321	84	20	3.4	3.8
28	3.4	59	504	977	1,640	1,050	505	290	78	18	3.3	3.5
29	5.2	56	298	725	------	1,230	573	271	75	15	3.2	3.4
30	6.5	56	194	646	------	1,300	549	285	71	15	3.1	3.6
31	9.3	------	139	555	------	1,290	------	294	------	14	3.0	------
TOTAL	96.60	1,699.9	5,751	36,752	22,106	18,422	19,512	14,508	5,457	1,200	190.0	90.8
MEAN	3.12	56.7	186	1,186	790	594	650	468	182	38.7	6.13	3.03
MAX	10	260	599	4,450	1,640	1,300	1,150	702	289	67	13	7.2
MIN	0	5.8	37	123	394	303	482	271	71	14	3.0	1.4
AC-FT	192	3,370	11,410	72,900	43,850	36,540	38,700	28,780	10,820	2,380	377	180

CAL YR 1968 TOTAL 63,160.70 MEAN 173 MAX 3,380 MIN 0 AC-FT 125,300
WTR YR 1969 TOTAL 125,785.30 MEAN 345 MAX 4,450 MIN 0 AC-FT 249,500

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	7.5	6.4	164	673	330	186	50	60	24		
2	2.9	7.3	6.3	139	565	228	178	47	61	22		
3	2.6	7.2	6.3	119	485	173	174	50	65	20		
4	2.6	7.0	5.9	102	427	1,280	170	60	65	19		
5	2.8	7.7	5.7	86	367	688	166	74	61	16		
6	3.4	26	5.6	80	302	453	162	81	58	15		
7	4.0	29	5.3	80	242	473	158	82	57	13		
8	4.3	28	7.9	93	188	1,270	154	84	68	12		
9	4.4	23	8.7	912	146	976	150	119	96	9.3		
10	4.7	20	8.8	827	111	831	145	102	79	6.9		
11	5.4	18	9.0	529	88	659	142	89	66	6.3		
12	5.4	15	540	454	121	563	137	90	55	4.2		
13	4.2	14	920	755	358	495	133	79	51	2.1		
14	4.4	13	431	2,390	218	482	129	66	67	1.0		
15	13	12	354	1,820	130	463	125	56	82	0		
16	42	11	193	4,170	416	410	121	60	57	0		
17	52	11	121	3,740	939	370	117	90	50	0		
18	43	10	97	2,450	576	330	113	133	49	0		
19	23	9.9	896	1,880	452	284	109	148	47	0		
20	16	9.9	1,240	1,750	366	267	107	154	47	0		
21	12	9.7	2,000	2,720	305	253	99	108	46	0		
22	9.8	9.3	1,290	3,630	259	233	88	87	44	0		
23	9.3	9.3	1,140	7,140	215	221	81	83	42	0		
24	9.5	9.2	1,020	9,030	180	213	74	84	40	0		
25	9.4	8.3	647	5,170	144	207	68	80	37	0		
26	9.3	8.1	517	3,890	114	204	63	87	35	0		
27	9.3	8.1	400	6,110	103	202	64	116	33	0		
28	9.2	7.5	324	3,230	127	199	61	113	31	0		
29	8.5	7.1	271	1,940	------	197	56	85	29	0		
30	8.0	6.9	229	1,310	------	194	53	71	26	0		
31	7.5	------	192	885	------	192	------	63	------	0		------
TOTAL	345.5	370.0	12,897.9	67,595	8,617	13,340	3,583	2,691	1,604	170.8	0	0
MEAN	11.1	12.3	416	2,180	308	430	119	86.8	53.5	5.51	0	0
MAX	52	29	2,000	9,030	939	1,280	186	154	96	24	0	0
MIN	2.6	6.9	5.3	80	88	173	53	47	26	0	0	0
AC-FT	685	734	25,580	134,100	17,090	26,460	7,110	5,340	3,180	339	0	0

CAL YR 1969 TOTAL 131,851.2 MEAN 361 MAX 4,450 MIN 1.4 AC-FT 261,500
WTR YR 1970 TOTAL 111,214.2 MEAN 305 MAX 9,030 MIN 0 AC-FT 220,600

11376000 COTTONWOOD CREEK NEAR COTTONWOOD, CALIF.

LOCATION.--Lat 40°23'10", long 122°14'12", in NE¼ sec.7, T.29 N., R.3 W., Tehama County, on right bank 2 miles east of Cottonwood and 2.4 miles upstream from mouth.

DRAINAGE AREA.--927 sq mi (revised).

PERIOD OF RECORD.--October 1940 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 364.0 ft above mean sea level (levels by Corps of Engineers). Prior to July 26, 1963, at site 250 ft upstream at datum 3.59 ft higher. Sept. 21, 1967, to Jan. 14, 1968, auxiliary water-stage recorder at site 1,200 ft downstream at datum 2.35 ft higher.

AVERAGE DISCHARGE.--30 years, 841 cfs (609,300 acre-ft per year); median of yearly mean discharges, 660 cfs (478,000 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (7,100 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Nov. 15, 1965	0500	9,120	12.42	Jan. 15, 1968	0130	11,600	12.46	Feb. 24, 1969	0930	14,100	13.20
Jan. 5, 1966	0100	*14,700	13.88	Jan. 29, 1968	2200	10,600	12.20	Feb. 28, 1969	0600	12,600	12.76
Feb. 4, 1966	0500	8,070	12.09	Feb. 20, 1968	0300	*19,400	14.14				
								Dec. 21, 1969	1300	10,400	12.08
Dec. 5, 1966	0600	10,300	12.50	Dec. 28, 1968	0700	7,130	10.91	Dec. 23, 1969	1730	7,920	11.19
Jan. 21, 1967	1700	11,900	12.53	Jan. 13, 1969	1300	23,500	15.48	Jan. 9, 1970	2130	8,050	11.24
Jan. 24, 1967	0830	8,610	11.66	Jan. 21, 1969	1300	17,700	14.18	Jan. 14, 1970	1300	15,400	13.56
Jan. 26, 1967	1300	18,800	14.04	Jan. 26, 1969	0600	7,460	11.04	Jan. 16, 1970	1030	24,900	15.37
Jan. 29, 1967	0830	18,600	13.99	Feb. 6, 1969	0230	*14,600	13.34	Jan. 24, 1970	0100	*58,500	19.46
Jan. 31, 1967	0730	*22,800	14.70	Feb. 15, 1969	0330	13,900	13.15	Jan. 27, 1970	0600	30,700	16.28
								Mar. 4, 1970	2030	10,600	12.24

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Aug. 8, 1966	42	1969	Oct. 25, 1968	40
1967	Oct. 9, 20, 1966	54	1970	July 27, 1970	44
1968	July 28, 1968	46			

Period of record: Maximum discharge, 60,000 cfs Dec. 22, 1964 (gage height, 19.64 ft); minimum, 15 cfs for several days in September 1945.

REMARKS.--Records good. No gage-height record July 9 to Sept. 20, 1967. Small diversions for irrigation above station. At times during irrigation season, Cottonwood Creek receives water above station from Sacramento River by way of Anderson-Cottonwood Canal. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

REVISIONS (WATER YEARS).--WSP 1345: 1943, 1944(M), 1946-47, 1949(M), 1951-52.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	123	390	540	1,720	1,020	1,630	450	276	92	68	54
2	110	102	370	482	1,350	968	1,620	426	260	91	70	54
3	95	90	346	468	1,480	886	1,480	418	245	96	68	54
4	92	87	342	6,350	5,970	848	1,350	450	235	102	68	62
5	110	89	342	9,200	3,360	1,160	1,270	466	225	94	56	72
6	95	90	350	4,890	2,640	1,170	1,270	482	230	85	49	68
7	89	112	358	3,470	1,800	1,110	1,230	466	230	81	49	66
8	89	160	346	2,750	1,440	1,080	1,190	450	225	83	42	70
9	82	199	330	2,330	1,210	1,320	1,160	434	220	85	47	72
10	79	147	318	1,840	1,070	2,260	1,190	442	204	100	56	68
11	82	126	306	1,500	950	2,210	1,170	458	192	92	51	62
12	82	141	310	1,260	878	1,950	1,140	434	184	89	54	53
13	76	449	298	1,120	818	1,930	1,040	410	177	83	60	53
14	92	1,620	280	1,060	774	1,980	938	378	167	83	68	56
15	102	4,520	269	1,080	732	1,930	874	354	154	89	75	58
16	112	1,220	258	1,110	692	1,810	874	370	161	79	75	87
17	118	1,420	248	1,080	660	1,580	914	338	161	74	60	83
18	135	2,350	241	1,010	648	1,420	898	324	146	75	54	96
19	123	1,380	234	942	918	1,310	826	318	130	75	56	108
20	129	934	227	878	950	1,210	738	306	130	72	53	98
21	138	712	216	810	802	1,140	674	300	140	72	56	100
22	120	600	224	781	760	1,080	634	306	130	68	60	89
23	108	540	213	746	818	1,020	602	300	130	54	58	87
24	112	535	230	706	878	986	570	288	133	54	70	75
25	108	584	255	673	930	986	562	276	128	56	56	68
26	108	550	262	648	2,000	1,030	554	260	123	53	56	64
27	102	540	248	630	1,240	1,140	538	260	117	56	66	54
28	98	459	597	600	1,090	1,300	506	265	110	70	72	64
29	115	430	1,300	636	------	1,410	474	260	102	66	62	68
30	112	410	746	1,170	------	1,510	458	260	94	56	60	64
31	115	------	630	918	------	1,570	------	270	------	58	56	------
TOTAL	3,221	20,719	11,084	51,678	38,578	42,324	28,374	11,219	5,159	2,383	1,851	2,127
MEAN	104	691	358	1,667	1,378	1,365	946	362	172	76.9	59.7	70.9
MAX	138	4,520	1,300	9,200	5,970	2,260	1,630	482	276	102	75	108
MIN	76	87	213	468	648	848	458	260	94	53	42	53
AC-FT	6,390	41,100	21,990	102,500	76,520	83,950	56,280	22,250	10,230	4,730	3,670	4,220

CAL YR 1965 TOTAL 310,844 MEAN 852 MAX 13,700 MIN 68 AC-FT 616,600
WTR YR 1966 TOTAL 218,717 MEAN 599 MAX 9,200 MIN 42 AC-FT 433,800

11376000 COTTONWOOD CREEK NEAR COTTONWOOD, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	123	1,050	378	6,620	588	2,620	1,380	842	310	98	60
2	79	136	2,850	362	4,540	588	1,600	1,320	1,320	300	96	58
3	75	126	2,850	354	3,440	570	1,440	1,300	1,220	290	92	56
4	64	85	2,290	340	2,900	564	1,400	1,320	1,020	270	90	55
5	60	70	7,910	335	2,620	546	1,380	1,390	1,000	250	88	55
6	60	87	3,350	326	2,380	540	1,990	1,460	1,020	230	86	55
7	60	98	2,120	314	2,200	528	2,620	1,510	926	217	84	55
8	64	77	1,620	306	2,060	522	2,010	1,700	860	206	83	55
9	54	66	1,340	302	1,920	510	1,850	1,850	812	205	83	55
10	64	60	1,830	298	1,800	558	1,780	1,950	770	200	82	56
11	75	60	1,570	286	1,680	906	2,390	1,590	715	195	82	66
12	72	75	1,390	280	1,600	866	1,960	1,470	675	190	81	68
13	79	91	1,560	280	1,550	954	1,750	1,390	710	180	80	70
14	91	117	1,900	276	1,460	906	1,650	1,330	625	170	75	70
15	89	442	1,480	276	1,320	775	1,610	1,330	575	165	72	70
16	85	754	1,230	272	1,230	2,000	1,480	1,430	545	160	70	70
17	85	538	1,100	269	1,150	2,100	1,820	1,510	535	155	68	70
18	66	288	994	262	1,080	1,640	2,310	1,530	530	150	65	70
19	58	276	906	258	1,020	1,420	1,940	1,450	530	145	63	70
20	54	1,660	842	1,110	938	1,400	1,940	1,390	520	140	61	70
21	70	1,880	778	8,470	882	1,550	1,730	1,370	500	135	58	72
22	89	1,410	714	4,710	834	1,470	1,640	1,350	470	130	56	70
23	87	874	658	2,110	789	1,460	2,010	1,320	430	125	56	74
24	92	634	602	5,810	747	1,400	2,060	1,250	410	120	60	80
25	81	506	554	3,420	733	1,300	2,000	1,140	390	115	64	74
26	72	426	514	9,700	681	1,230	1,850	1,040	380	110	66	77
27	83	386	490	5,850	649	1,160	1,930	986	370	108	68	91
28	81	418	450	9,880	621	1,110	1,710	932	360	106	68	82
29	89	930	434	15,600	------	1,070	1,600	890	340	104	68	88
30	98	890	418	11,200	------	1,060	1,470	842	320	102	66	78
31	106	------	402	13,100	------	1,480	------	794	------	100	62	------
TOTAL	2,346	13,583	46,196	96,734	49,444	32,771	55,540	41,514	19,720	5,383	2,291	2,040
MEAN	75.7	453	1,490	3,120	1,766	1,057	1,851	1,339	657	174	73.9	68.0
MAX	106	1,880	7,910	15,600	6,620	2,100	2,620	1,950	1,320	310	98	91
MIN	54	60	402	258	621	510	1,380	794	320	100	56	55
AC-FT	4,650	26,940	91,630	191,900	98,070	65,000	110,200	82,340	39,110	10,680	4,540	4,050

CAL YR 1966 TOTAL 245,818 MEAN 673 MAX 9,200 MIN 42 AC-FT 487,600
WTR YR 1967 TOTAL 367,562 MEAN 1,007 MAX 15,600 MIN 54 AC-FT 729,100

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	80	147	285	1,270	1,790	738	332	245	86	48	71
2	69	84	131	250	3,420	1,690	716	332	243	86	48	69
3	102	91	430	226	3,320	1,580	643	332	249	83	52	63
4	122	90	615	215	2,150	1,530	631	323	262	77	53	65
5	108	97	1,070	205	1,660	1,510	605	332	268	75	55	67
6	110	100	610	198	1,440	1,340	590	332	272	73	49	63
7	110	112	681	190	1,400	1,160	565	314	282	71	48	63
8	104	131	625	188	1,310	1,070	553	301	246	71	48	61
9	108	145	396	205	1,230	1,020	528	314	225	65	49	71
10	106	147	316	1,410	1,230	1,100	514	314	214	61	48	69
11	102	152	296	1,050	1,200	1,000	535	314	210	61	51	69
12	108	154	278	530	1,370	1,020	528	314	228	63	48	61
13	104	154	264	716	1,390	1,330	500	350	217	63	48	58
14	102	198	220	5,270	1,350	1,250	500	332	214	61	49	58
15	95	182	198	8,530	1,330	1,000	479	314	211	61	52	63
16	86	138	205	4,060	1,600	1,350	472	301	206	61	52	58
17	83	114	198	2,190	4,740	1,430	444	301	200	56	53	63
18	76	108	208	1,470	2,920	1,110	458	314	200	55	53	73
19	83	108	210	1,050	5,450	895	430	472	195	53	65	69
20	83	102	190	884	13,200	855	416	444	184	53	104	69
21	91	100	192	842	8,720	845	402	416	134	53	124	69
22	108	97	190	866	9,000	825	395	386	110	58	108	67
23	114	93	205	860	9,380	804	386	345	108	53	129	67
24	118	91	223	818	6,980	782	386	315	101	51	138	65
25	129	90	244	782	4,500	792	350	290	94	52	136	61
26	122	86	274	755	3,300	792	350	258	92	51	141	65
27	120	84	340	755	2,670	782	368	254	88	49	146	61
28	122	86	380	735	2,070	726	359	247	90	46	141	59
29	97	102	360	3,730	1,890	704	332	252	90	50	112	61
30	91	152	340	3,610	------	699	332	245	90	49	75	61
31	86	------	320	1,740	------	682	------	247	------	49	77	------
TOTAL	3,130	3,468	10,356	44,615	101,490	33,463	14,505	9,937	5,568	1,896	2,400	1,939
MEAN	101	116	334	1,439	3,500	1,079	484	321	186	61.2	77.4	64.6
MAX	129	198	1,070	8,530	13,200	1,790	738	472	282	86	146	73
MIN	69	80	131	188	1,200	682	332	245	88	46	48	58
AC-FT	6,210	6,880	20,540	88,490	201,300	66,370	28,770	19,710	11,040	3,760	4,760	3,850

CAL YR 1967 TOTAL 322,391 MEAN 883 MAX 15,600 MIN 55 AC-FT 639,500
WTR YR 1968 TOTAL 232,767 MEAN 636 MAX 13,200 MIN 46 AC-FT 461,700

11376000 COTTONWOOD CREEK NEAR COTTONWOOD, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	45	131	1,200	2,220	7,560	3,700	1,650	690	226	91	81
2	52	52	129	1,740	2,030	4,530	3,210	1,550	668	217	93	81
3	49	173	121	2,400	1,800	3,760	2,880	1,440	638	196	88	83
4	46	236	117	2,980	1,700	2,940	2,490	1,360	592	196	83	83
5	47	141	114	3,080	2,810	2,580	2,460	1,300	578	196	86	76
6	48	117	112	2,760	8,210	2,450	2,530	1,310	548	188	86	79
7	60	105	114	2,310	3,890	2,340	2,190	1,450	518	184	83	83
8	45	105	141	1,900	3,170	2,230	2,130	1,520	497	177	79	88
9	46	105	225	1,490	7,590	2,130	2,100	1,630	490	173	76	91
10	44	105	3,100	1,220	5,550	2,020	2,110	1,720	504	166	76	93
11	61	102	2,240	2,750	8,020	1,860	2,150	1,700	525	155	74	88
12	90	102	975	14,300	8,390	1,850	2,380	1,690	532	151	67	79
13	53	107	709	18,400	5,310	1,730	2,430	1,610	504	142	65	83
14	61	119	1,490	8,350	5,560	1,620	2,280	1,500	455	139	74	79
15	58	152	2,570	4,560	9,670	1,570	2,130	1,310	436	132	67	91
16	81	194	2,080	2,920	5,750	1,590	1,990	1,190	410	129	67	98
17	119	169	1,040	2,200	4,190	1,880	2,030	1,160	384	126	74	86
18	122	166	775	1,960	4,140	2,230	2,190	1,180	367	123	74	83
19	134	250	649	4,840	3,560	2,200	2,150	1,120	410	126	76	83
20	119	246	565	11,500	3,170	2,170	2,080	1,030	448	120	71	91
21	52	194	490	14,400	2,810	2,820	2,120	956	390	117	67	96
22	43	166	450	8,800	2,590	2,610	2,330	924	361	115	71	98
23	41	147	388	5,090	3,020	2,600	2,460	892	327	115	71	86
24	41	139	2,710	3,430	7,910	2,620	2,240	900	305	112	76	79
25	40	131	4,380	2,840	5,490	2,590	1,930	870	294	106	71	74
26	41	136	2,810	6,310	3,710	2,640	1,740	832	278	101	81	74
27	44	131	1,900	4,820	3,350	2,880	1,690	795	268	98	76	81
28	49	124	5,790	3,400	10,700	3,400	1,690	742	259	96	81	83
29	119	119	2,780	2,710	------	3,860	1,780	705	254	96	86	83
30	56	126	1,630	2,640	------	4,060	1,740	698	240	93	81	91
31	48	------	1,350	2,300	------	4,030	------	698	------	93	83	------
TOTAL	1,957	4,204	42,075	149,600	136,310	85,350	67,330	37,432	13,170	4,404	2,394	2,544
MEAN	63.1	140	1,357	4,826	4,868	2,753	2,244	1,207	439	142	77.2	84.8
MAX	134	250	5,790	18,400	10,700	7,560	3,700	1,720	690	226	93	98
MIN	40	45	112	1,200	1,700	1,570	1,690	698	240	93	65	74
AC-FT	3,880	8,340	83,460	296,700	270,400	169,300	133,500	74,250	26,120	8,740	4,750	5,050

CAL YR 1968 TOTAL 264,049 MEAN 721 MAX 13,200 MIN 40 AC-FT 523,700
WTR YR 1969 TOTAL 546,770 MEAN 1,498 MAX 18,400 MIN 40 AC-FT 1,085,000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	79	74	840	3,680	2,500	805	360	250	143	59	54
2	117	74	74	742	3,250	1,550	792	360	237	133	57	52
3	102	74	83	639	2,940	1,370	755	351	207	125	57	55
4	96	74	83	548	2,710	3,760	730	351	195	125	55	55
5	88	79	81	511	2,460	3,820	680	351	178	121	57	55
6	88	117	81	476	2,290	2,320	668	360	173	117	52	59
7	81	112	81	462	2,120	2,390	618	386	178	109	50	66
8	93	104	88	483	1,980	3,700	618	425	173	105	50	59
9	115	101	104	3,380	1,870	2,940	582	446	219	93	50	57
10	115	96	104	4,560	1,710	2,900	570	415	272	84	54	57
11	123	88	106	2,700	1,610	2,460	558	404	243	78	52	61
12	117	83	876	2,840	1,630	2,260	570	395	219	72	52	63
13	112	81	2,350	3,240	2,810	2,070	606	377	213	69	57	66
14	123	79	1,290	10,800	2,260	1,970	655	351	213	66	61	61
15	145	76	1,280	7,040	1,790	1,870	606	324	225	66	57	61
16	177	74	1,190	18,500	2,380	1,740	594	315	213	61	55	75
17	181	71	690	11,100	3,950	1,600	570	324	189	61	57	69
18	184	71	705	7,200	2,810	1,520	546	342	178	63	54	78
19	151	71	3,110	6,750	2,340	1,430	534	368	183	66	50	63
20	120	71	5,760	7,150	2,090	1,360	510	360	173	69	48	63
21	112	76	7,490	12,500	1,900	1,280	510	342	173	63	48	61
22	109	76	4,530	14,400	1,760	1,210	499	324	168	61	50	59
23	106	76	5,150	21,600	1,610	1,150	478	308	173	54	55	59
24	101	76	4,650	31,900	1,540	1,090	468	308	168	54	54	75
25	98	74	2,760	12,100	1,460	1,040	468	286	168	50	57	78
26	98	74	2,110	8,540	1,380	1,000	478	286	168	46	61	72
27	93	74	1,740	20,000	1,310	958	478	293	153	44	61	78
28	98	74	1,490	8,930	1,310	919	446	293	153	46	55	84
29	88	74	1,310	6,330	------	893	386	293	163	48	59	75
30	83	74	1,160	4,980	------	855	368	265	168	46	54	72
31	81	------	972	4,240	------	830	------	257	------	50	59	------
TOTAL	3,515	2,423	51,572	235,481	60,950	56,755	17,146	10,620	5,786	2,388	1,697	1,942
MEAN	113	80.8	1,664	7,596	2,177	1,831	572	343	193	77.0	54.7	64.7
MAX	184	117	7,490	31,900	3,950	3,820	805	446	272	143	61	84
MIN	81	71	74	462	1,310	830	368	257	153	44	48	52
AC-FT	6,970	4,810	102,300	467,100	120,900	112,600	34,010	21,060	11,480	4,740	3,370	3,850

CAL YR 1969 TOTAL 556,044 MEAN 1,523 MAX 18,400 MIN 65 AC-FT 1,103,000
WTR YR 1970 TOTAL 450,275 MEAN 1,234 MAX 31,900 MIN 44 AC-FT 893,100

11376550 BATTLE CREEK BELOW COLEMAN FISH HATCHERY, NEAR COTTONWOOD, CALIF.

LOCATION.--Lat 40°23'54", long 122°08'43", in SW¼NE¼ sec.1, T.29 N., R.3 W., Shasta County, U.S. Fish and Wildlife Service land, on right bank 3.7 miles downstream from Spring Branch, 5.7 miles upstream from mouth, and 7.0 miles east of Cottonwood.

DRAINAGE AREA.--357 sq mi (revised).

PERIOD OF RECORD.--October 1961 to September 1970. October 1940 to September 1961 at site 0.6 mile upstream published as "near Cottonwood"; low flow records not equivalent owing to Coleman Fish Hatchery diversion.

GAGE.--Water-stage recorder. Altitude of gage is 415 ft (from topographic map).

AVERAGE DISCHARGE.--9 years, 509 cfs (368,800 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (2,500 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Feb. 6, 1966	0600	*1,590	5.97	Feb. 20, 1968	0100	4,990	8.97	Dec. 12, 1969	1830	5,470	8.56
				Feb. 23, 1968	1800	2,920	7.23	Dec. 19, 1969	1300	6,320	9.02
Nov. 20, 1966	0045	3,440	7.69					Dec. 21, 1969	1415	7,380	9.55
Dec. 2, 1966	2015	6,200	9.90	Dec. 10, 1968	1045	5,480	9.35	Dec. 23, 1969,	1545	3,530	7.34
Jan. 21, 1967	1500	*8,020	11.23	Dec. 15, 1968	1415	3,980	8.14	Jan. 9, 1970	1745	4,890	8.17
Jan. 30, 1967	1830	3,760	7.96	Dec. 24, 1968	2115	5,840	9.62	Jan. 14, 1970	1100	5,120	8.31
				Jan. 12, 1969	2345	5,450	9.29	Jan. 16, 1970	1400	9,570	10.62
Jan. 10, 1968	0400	5,720	9.53	Jan. 20, 1969	0015	*12,100	13.54	Jan. 21, 1970	1945	5,820	8.71
Jan. 14, 1968	1845	*6,200	9.90	Jan. 26, 1969	0545	4,440	8.21	Jan. 24, 1970	0015	*24,300	14.75
Jan. 29, 1968	2200	2,520	6.86	Feb. 12, 1969	0100	3,190	7.20				

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Sept. 6, 1966	189	1969	Oct. 10, 1968	239
1967	Oct. 18, 1966	209	1970	Aug. 29, 1970	271
1968	Jan. 31, 1968	220			

Period of record: Maximum discharge, 24,300 cfs Jan. 24, 1970 (gage height, 14.75 ft), from rating curve extended above 1,600 cfs on basis of slope-area measurement of peak flow; minimum, 52 cfs Aug. 8, 1962.

Maximum stage known, 15.8 ft Dec. 11, 1937, from floodmarks at former site and datum (discharge, 35,000 cfs, by slope-area measurement).

REMARKS.--Records good. Flow regulated by four small powerplants, several small reservoirs, and Coleman Fish Hatchery. Coleman Fish Hatchery diverts 50 to 90 cfs which is returned above station. Ten cfs diverted above station for irrigation. Maximum flows considered equivalent to former station Battle Creek near Cottonwood. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	274	254	335	365	605	371	553	432	340	276	193	190
2	275	263	326	346	428	362	555	436	331	290	213	222
3	272	265	318	349	446	350	560	444	319	288	213	206
4	273	272	265	475	844	335	555	456	312	281	214	205
5	275	264	316	939	501	361	550	473	306	273	209	199
6	276	268	323	580	918	363	545	491	308	266	212	189
7	272	282	310	476	508	375	539	483	326	248	212	204
8	273	335	310	463	422	377	550	486	317	237	214	212
9	272	320	310	452	395	387	542	503	308	239	211	210
10	271	305	306	418	376	443	664	517	304	238	205	210
11	272	296	308	404	360	483	633	514	299	239	215	212
12	273	340	318	382	354	443	583	481	294	236	212	216
13	275	375	308	373	345	467	531	466	290	238	213	216
14	280	525	303	365	341	518	499	465	286	236	209	219
15	285	730	293	359	339	524	493	451	286	230	211	218
16	282	430	291	353	329	590	509	437	290	226	204	216
17	284	595	293	347	335	491	540	429	290	228	211	223
18	287	890	300	341	331	469	542	421	290	230	208	222
19	288	540	298	340	350	470	504	415	286	228	217	228
20	272	440	297	334	453	450	477	417	281	226	220	231
21	272	385	299	331	365	440	457	420	281	226	211	223
22	279	360	299	333	352	427	442	414	276	220	214	222
23	277	345	297	332	379	430	448	398	276	221	202	220
24	276	435	331	329	658	412	452	385	276	221	204	223
25	276	460	388	320	526	420	470	382	282	220	201	219
26	276	440	337	326	501	438	482	387	283	218	201	225
27	270	390	326	321	412	456	461	382	281	220	209	217
28	266	365	629	321	384	477	443	370	271	212	204	226
29	273	345	571	398	------	495	438	353	276	213	204	223
30	275	335	425	595	------	523	434	346	275	215	210	219
31	273	------	362	418	------	527	------	345	------	218	236	------
TOTAL	8,544	11,849	10,392	12,485	12,557	13,674	15,451	13,399	8,840	7,357	6,512	6,465
MEAN	276	395	335	403	448	441	515	432	295	237	210	216
MAX	288	890	629	939	918	590	664	517	340	290	236	231
MIN	266	254	265	320	329	335	434	345	271	212	193	189
AC-FT	16,950	23,500	20,610	24,760	24,910	27,120	30,650	26,580	17,530	14,590	12,920	12,820

CAL YR 1965 TOTAL 190,129 MEAN 521 MAX 4,590 MIN 254 AC-FT 377,100
WTR YR 1966 TOTAL 127,525 MEAN 349 MAX 939 MIN 189 AC-FT 252,900

11376550 BATTLE CREEK BELOW COLEMAN FISH HATCHERY, NEAR COTTONWOOD, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	224	233	726	318	1,250	414	686	665	874	645	336	255
2	225	230	2,190	313	944	409	579	656	823	632	334	250
3	220	236	1,450	312	786	401	579	659	766	617	327	255
4	221	237	795	312	709	394	562	673	758	591	324	250
5	219	238	1,370	312	656	389	552	693	805	565	316	255
6	220	305	750	301	617	388	928	693	769	544	314	254
7	220	312	573	302	588	399	815	727	769	530	312	257
8	218	271	507	301	564	394	674	840	771	514	303	250
9	215	261	461	300	515	394	638	959	843	500	295	248
10	218	254	567	300	505	407	608	977	831	486	289	249
11	217	263	483	301	494	974	656	831	852	461	285	257
12	218	324	439	298	491	918	602	764	905	467	282	260
13	218	314	620	296	499	795	584	718	897	469	272	270
14	220	293	584	297	499	641	579	730	821	457	270	269
15	222	326	476	295	485	545	584	804	819	430	273	260
16	220	739	443	294	476	1,530	557	942	815	412	275	265
17	225	389	421	291	471	1,190	626	1,070	830	415	258	265
18	209	319	401	292	461	870	731	1,150	840	403	264	265
19	220	593	390	292	454	763	984	1,210	877	401	260	265
20	228	1,770	380	410	437	728	738	1,230	840	384	260	265
21	218	649	367	3,200	432	715	650	1,290	816	382	260	263
22	235	583	358	1,450	429	689	632	1,350	775	375	262	269
23	228	395	361	773	424	761	766	1,380	728	370	264	273
24	215	343	365	1,040	422	698	920	1,380	707	363	256	267
25	220	319	349	665	455	637	871	1,250	695	357	255	267
26	225	307	344	1,080	443	601	857	1,140	693	353	255	267
27	229	302	331	1,390	425	574	1,220	1,090	661	351	257	265
28	235	644	325	1,770	420	567	871	1,070	658	351	260	263
29	227	1,390	326	2,470	------	559	756	1,050	655	355	265	262
30	228	593	325	2,260	------	552	717	974	665	353	259	268
31	225	------	320	2,200	------	558	------	909	------	351	261	------
TOTAL	6,882	13,432	17,797	24,435	15,351	19,854	21,522	29,874	23,558	13,884	8,703	7,828
MEAN	222	448	574	788	548	640	717	964	785	448	281	261
MAX	235	1,770	2,190	3,200	1,250	1,530	1,220	1,380	905	645	336	273
MIN	209	230	320	291	420	388	552	656	655	351	255	248
AC-FT	13,650	26,640	35,300	48,470	30,450	39,380	42,690	59,260	46,730	27,540	17,260	15,530

CAL YR 1966 TOTAL 134,851 MEAN 369 MAX 2,190 MIN 189 AC-FT 267,500
WTR YR 1967 TOTAL 203,120 MEAN 556 MAX 3,200 MIN 209 AC-FT 402,900

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	268	242	299	283	484	770	596	405	349	261	230	241
2	272	246	292	282	980	717	574	401	350	256	233	242
3	430	251	590	275	767	700	537	414	343	260	227	242
4	340	251	505	275	613	670	522	419	348	253	223	240
5	325	251	730	275	553	682	496	423	345	261	224	237
6	322	251	391	270	511	652	475	413	362	269	223	238
7	303	251	735	272	505	636	466	399	354	253	226	241
8	286	248	408	273	474	637	462	397	333	248	224	234
9	288	254	345	436	477	597	464	390	328	252	222	232
10	290	254	329	2,560	480	560	475	393	319	251	228	230
11	286	254	313	554	471	545	485	390	313	250	224	245
12	283	254	309	415	463	599	496	393	307	240	225	252
13	279	254	297	420	466	735	484	427	303	242	225	254
14	274	295	289	2,680	449	641	467	429	296	248	229	272
15	262	311	285	3,450	435	588	464	395	300	245	230	270
16	265	292	292	1,360	473	1,030	460	384	299	241	227	267
17	249	284	285	874	814	865	437	378	290	240	233	266
18	245	280	296	643	696	674	428	377	300	240	232	266
19	252	337	299	544	1,220	613	423	386	296	232	249	264
20	246	328	295	482	2,770	577	413	423	288	238	351	264
21	245	292	290	449	1,930	563	405	405	296	232	401	261
22	250	295	286	426	1,710	547	398	410	295	233	343	261
23	257	288	284	411	2,120	542	391	413	290	229	289	261
24	253	284	284	405	1,740	526	381	412	270	229	271	264
25	258	280	286	396	1,220	554	381	389	278	229	267	256
26	252	280	288	389	1,020	588	379	387	274	230	262	259
27	247	280	300	386	926	545	387	372	275	228	257	264
28	246	288	312	383	863	539	386	367	280	229	254	255
29	248	292	314	1,220	812	545	391	360	284	226	248	250
30	247	303	297	972	------	568	399	361	278	225	243	242
31	249	------	290	564	------	572	------	359	------	220	242	------
TOTAL	8,517	8,270	10,815	22,624	26,442	19,577	13,522	12,271	9,243	7,490	7,762	7,570
MEAN	275	276	349	730	912	632	451	396	308	242	250	252
MAX	430	337	735	3,450	2,770	1,030	596	429	362	269	401	272
MIN	245	242	284	270	435	526	379	359	270	220	222	230
AC-FT	16,890	16,400	21,450	44,870	52,450	38,830	26,820	24,340	18,330	14,860	15,400	15,020

CAL YR 1967 TOTAL 192,611 MEAN 528 MAX 3,200 MIN 242 AC-FT 382,000
WTR YR 1968 TOTAL 154,103 MEAN 421 MAX 3,450 MIN 220 AC-FT 305,700

11376550 BATTLE CREEK BELOW COLEMAN FISH HATCHERY, NEAR COTTONWOOD, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	244	277	347	450	1,020	1,150	995	905	882	434	320	296
2	242	287	337	434	951	1,150	940	896	869	429	317	293
3	241	385	319	433	884	1,240	893	890	864	428	317	292
4	240	364	315	428	858	875	823	822	863	425	317	292
5	241	315	316	429	1,400	797	1,200	834	863	424	312	292
6	241	294	320	423	1,270	763	1,180	925	826	423	312	291
7	240	280	310	417	963	735	975	1,020	779	412	315	288
8	242	277	314	414	894	701	906	1,060	744	406	313	293
9	241	273	345	399	1,200	689	871	1,140	754	408	312	291
10	239	269	2,750	394	1,140	668	831	1,190	742	406	309	291
11	246	270	1,020	689	1,800	651	825	1,250	756	400	308	293
12	270	444	586	2,810	2,080	636	859	1,270	737	398	308	291
13	352	353	512	3,940	1,250	618	862	1,210	710	394	306	293
14	342	321	1,440	1,650	1,310	609	842	1,160	683	396	304	298
15	298	366	1,720	1,130	1,800	602	809	1,040	664	391	306	298
16	277	385	873	895	1,280	604	792	1,020	653	385	303	289
17	271	333	597	771	1,070	634	802	1,040	642	376	301	286
18	267	524	504	918	1,070	651	962	1,080	630	373	299	287
19	262	481	462	3,500	990	641	911	1,060	654	369	303	297
20	256	369	430	6,260	964	630	907	992	614	370	301	303
21	253	342	399	6,310	932	651	948	971	638	371	299	302
22	257	337	391	3,100	859	634	979	988	590	368	299	299
23	252	337	450	1,880	1,140	635	1,060	1,020	551	363	298	299
24	253	334	3,340	1,500	1,060	639	961	1,030	535	369	298	298
25	247	397	2,270	2,210	916	648	858	988	517	362	298	299
26	245	356	862	3,380	875	659	816	1,000	500	355	297	298
27	241	333	630	1,930	846	679	788	923	482	349	297	297
28	252	322	757	1,510	1,410	714	798	881	476	342	297	296
29	268	312	631	1,250	------	757	864	862	465	335	298	296
30	377	323	523	1,170	------	800	915	881	447	326	295	296
31	298	------	475	1,040	------	900	------	885	------	328	294	------
TOTAL	8,195	10,260	24,545	52,064	32,232	22,760	27,172	31,233	20,130	11,915	9,453	8,834
MEAN	264	342	792	1,679	1,151	734	906	1,008	671	384	305	294
MAX	377	524	3,340	6,310	2,080	1,240	1,200	1,270	882	434	320	303
MIN	239	269	310	394	846	602	788	822	447	326	294	286
AC-FT	16,250	20,350	48,690	103,300	63,930	45,140	53,900	61,950	39,930	23,630	18,750	17,520

CAL YR 1968 TOTAL 169,501 MEAN 463 MAX 3,450 MIN 220 AC-FT 336,200
WTR YR 1969 TOTAL 258,793 MEAN 709 MAX 6,310 MIN 239 AC-FT 513,300

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	296	316	334	556	1,270	1,410	632	583	576	481	337	281
2	296	316	336	518	1,230	989	625	576	576	473	327	281
3	296	314	335	496	1,160	822	620	576	569	465	329	273
4	298	310	331	474	1,080	887	617	597	562	457	312	289
5	297	609	333	457	1,020	898	610	604	562	457	313	289
6	297	636	330	446	968	772	605	611	562	457	308	289
7	298	458	330	457	912	820	600	604	555	449	310	289
8	305	407	348	520	868	1,510	595	604	555	441	279	289
9	310	382	357	2,300	845	1,120	581	611	548	433	289	289
10	305	366	344	1,520	829	1,370	604	604	541	425	289	297
11	300	358	360	1,090	823	1,020	597	604	531	417	297	289
12	301	353	2,600	1,050	946	896	611	604	497	409	295	291
13	301	353	1,670	1,440	1,290	851	611	597	504	393	289	289
14	303	350	812	3,410	1,020	869	611	590	551	385	296	296
15	326	349	612	2,030	849	837	604	590	544	385	289	297
16	440	347	505	5,460	933	798	604	583	518	385	281	307
17	422	342	484	3,140	1,310	759	611	590	501	385	283	304
18	357	343	510	2,170	966	715	611	618	490	377	289	305
19	335	341	3,230	1,750	839	710	611	604	487	361	281	321
20	329	341	2,320	1,710	791	711	611	604	478	361	273	310
21	323	345	3,580	3,480	767	695	611	604	471	361	284	310
22	322	343	1,700	3,730	736	690	604	590	468	361	281	307
23	325	340	2,590	9,640	715	680	604	597	467	361	281	289
24	321	341	1,860	9,800	711	675	590	597	463	361	272	304
25	324	341	1,530	3,550	710	670	590	597	460	345	273	292
26	321	338	1,070	2,870	710	665	604	590	455	345	281	289
27	322	339	857	4,150	710	660	597	590	465	337	277	293
28	318	338	728	2,900	730	655	597	590	520	345	273	292
29	323	336	664	1,650	------	648	583	583	650	337	271	294
30	319	334	620	1,380	------	642	590	583	513	329	273	292
31	317	------	576	1,320	------	639	------	583	------	336	281	------
TOTAL	9,947	10,986	32,256	75,464	25,738	26,083	18,141	18,458	15,639	12,214	9,013	8,837
MEAN	321	366	1,041	2,434	919	841	605	595	521	394	291	295
MAX	440	636	3,580	9,800	1,310	1,510	632	618	650	481	337	321
MIN	296	310	330	446	710	639	581	576	455	329	271	273
AC-FT	19,730	21,790	63,980	149,700	51,050	51,740	35,980	36,610	31,020	24,230	17,880	17,530

CAL YR 1969 TOTAL 268,982 MEAN 737 MAX 6,310 MIN 286 AC-FT 533,500
WTR YR 1970 TOTAL 262,776 MEAN 720 MAX 9,800 MIN 271 AC-FT 521,200

11377100 SACRAMENTO RIVER ABOVE BEND BRIDGE, NEAR RED BLUFF, CALIF.
(Formerly published as 11-3780. Sacramento River near Red Bluff)

LOCATION.--Lat 40°17'19", long 122°11'08", in SW¼SE¼ sec.10, T.28 N., R.3 W., Tehama County, on left bank 2.7 miles upstream from Bend Bridge and 8.1 miles northeast of Red Bluff. December 1919 to September 1968 at site 10.1 miles downstream.

DRAINAGE AREA.--8,900 sq mi, excluding Goose Lake basin. Area at site used December 1919 to Sept. 30, 1968, 9,022 sq mi.

PERIOD OF RECORD.--Annual maximums observed only for 1879-88, published in WSP 1315-A. January 1892 to September 1970. Monthly discharges only for some periods and yearly estimates for some incomplete years, published in WSP 1315-A. Published as "at Red Bluff" 1894-96, as "at Jellys Ferry" 1895-1902, and as "near Red Bluff" 1903-65.

GAGE.--Water-stage recorder. Altitude of gage is 310 ft (from topographic map). Prior to January 1902, nonrecording gage at site 6.1 miles upstream at different datum. January 1902 to December 1919 nonrecording gage at several sites about 10 miles downstream at different datum. December 1919 to September 1968 water-stage recorder at site 10.1 miles downstream at different datum.

AVERAGE DISCHARGE.--79 years (1891-1970), 11,620 cfs (8,419,000 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 5, 1966	79,300	17.54	Mar. 4, 1966	6,850
1967	Jan. 31, 1967	93,600	19.55	Jan. 17-19, 1967	5,280
1968	Feb. 24, 1968	64,000	15.20	Jan. 7, 1968	7,380
1969	Jan. 22, 1969	91,700	25.35	Jan. 10, 1969	6,380
1970	Jan. 24, 1970	157,000	36.60	Nov. 12, 1969	5,560

Period of record: Maximum discharge, 291,000 cfs Feb. 28, 1940 (gage height, 38.9 ft, site and datum then in use), from rating curve extended above 170,000 cfs on basis of velocity-area studies; minimum since 1892, 2,000 cfs Mar. 29, 1944.

REMARKS.--Records excellent. Since Dec. 30, 1943, flow regulated by Shasta Lake (see station 11370000). Diversions, in addition to those on tributaries, for irrigation of 22,000 acres between stations at Keswick and above Bend Bridge. Transbasin diversions from Trinity River to Whiskeytown Lake via Judge Francis Carr powerplant (see station 11525430) started in April 1963. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

REVISIONS (WATER YEARS).--WSP 861: 1904, 1907, 1909, 1914-15, 1927-28. WSP 1315-A: 1914(M), 1916(M), 1918(M). WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8320	8540	7870	14500	15700	8370	8480	9780	9490	12600	12800	9150
2	8270	8350	11400	13800	14900	8080	8480	9780	9520	12700	13100	8730
3	8290	8320	13400	13700	13100	7430	8350	9720	9810	13100	13200	8700
4	8320	8350	13700	26400	25200	6850	8130	9780	10600	13100	13100	8700
5	8320	8320	13800	63800	19300	7510	7890	9840	10600	13100	13000	8760
6	8320	8350	13800	29700	23600	7860	7700	9890	10700	13100	13000	8670
7	8350	8370	13900	23100	15600	7810	7620	9860	10700	13200	13000	8370
8	8350	8620	14100	21200	13200	8400	7590	9840	10700	13200	13000	8390
9	8350	8650	14100	20900	12200	8700	7590	9840	10600	13200	13000	8240
10	8350	8590	14100	19900	11700	11800	9920	10200	10500	13300	13000	7890
11	8370	8510	14100	19100	10700	11200	9720	10800	10500	13500	13000	7860
12	8400	8700	14100	18600	9950	9690	10200	10700	10500	14100	13000	7920
13	8430	9210	14100	18100	9720	8950	8430	10700	10400	14100	12800	7970
14	8480	11700	14000	18000	9520	9040	8080	10600	10400	14200	13000	7940
15	8560	18800	14000	18000	9370	9630	8650	10600	10600	14200	13000	7940
16	8510	12300	13900	18000	8760	10400	9520	10500	11500	14200	13000	7940
17	8560	12400	13900	18000	8210	10900	10500	10500	11500	14300	13000	7970
18	8560	17700	14000	17900	8160	11600	11300	10300	11800	14400	13000	7940
19	8620	13000	13900	17600	8900	12600	11600	9460	12500	14500	13000	8020
20	8590	12900	13900	17600	10100	12300	11400	9460	12500	14500	13100	8000
21	8590	13000	13100	17500	8210	12500	11300	9430	12600	14500	13100	7940
22	8590	12200	12700	17500	7860	12200	11200	9400	12600	14600	12900	7890
23	8560	12600	12700	17500	8290	11600	11000	9350	12600	14000	12400	7890
24	8540	14400	13200	17500	10000	11900	11000	9320	12500	13700	12100	7860
25	8540	14800	13500	17400	10100	10200	10700	9350	12500	13700	12100	7860
26	8540	15300	13200	16300	12000	8980	10100	9320	12500	13700	12100	7810
27	8560	15700	13000	14800	9490	9750	9980	9350	12600	13800	12100	7750
28	8590	14400	14200	13900	8730	9430	9920	9400	12600	14000	12100	7750
29	8620	10500	18100	13200	---	8620	9840	9430	12500	14300	12000	7750
30	8620	8140	15500	16100	---	8400	9810	9460	12600	12900	11700	7780
31	8650	---	17700	13800	---	8430	---	9520	---	12900	10200	---
TOTAL	262720	340720	426970	603400	332570	301130	286000	305480	341020	424700	392900	243380
MEAN	8475	11360	13770	19460	11880	9714	9533	9854	11370	13700	12670	8113
MAX	8650	18800	18100	63800	25200	12600	11600	10800	12600	14600	13200	9150
MIN	8270	8140	7870	13200	7860	6850	7590	9320	9490	12600	10200	7750
AC-FT	521100	675800	846900	1197000	659700	597300	567300	605900	676400	842400	779300	482700

CAL YR 1965 TOTAL 4696540 MEAN 12870 MAX 96600 MIN 5210 AC-FT 9316000
WTR YR 1966 TOTAL 4260990 MEAN 11670 MAX 63800 MIN 6850 AC-FT 8452000

11377100 SACRAMENTO RIVER ABOVE BEND BRIDGE, NEAR RED BLUFF, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7780	8000	18500	9750	58600	9690	16300	19900	16900	14000	13000	12000
2	7750	8000	28200	9660	51800	9350	12000	18500	17200	13900	13000	12000
3	7750	8100	36500	9600	48600	9230	10700	18300	17300	14200	13000	12000
4	7670	8130	22300	8670	47200	8700	9950	18000	16700	13800	12900	12000
5	7700	8020	39500	7620	46200	8620	9580	17000	16700	13800	12900	12000
6	7730	8370	44700	6670	44800	8560	12000	16200	16700	13800	12900	11900
7	7730	8590	49000	6540	38600	7730	18000	16000	16400	13500	12900	11900
8	7750	8320	52500	6540	28300	7590	18200	15500	15400	13300	12800	11600
9	7750	8160	53000	6520	21800	7190	17500	15900	15700	13300	12800	11400
10	7730	8130	49100	6050	19400	6770	17200	19300	15500	13300	12800	11400
11	7750	8160	26300	5860	18400	9720	18200	19300	15300	13200	12800	11400
12	7780	8460	20700	5370	18200	9350	16400	19200	15300	13200	12800	11400
13	7780	8540	20200	5300	18100	9690	18800	20300	15300	13200	12800	11400
14	7810	8460	21900	5320	16900	10800	20100	19800	15000	13100	12700	11200
15	7750	9090	19300	5300	16300	9200	19600	19600	14900	13200	12700	11000
16	7780	11300	18300	5300	15400	16600	19100	19900	14900	13100	12700	11000
17	7780	9430	17800	5280	15000	15300	19500	20500	14800	13200	12600	11000
18	7730	8700	17600	5280	14100	13300	28100	20500	14900	13200	12600	11000
19	7750	9380	17300	5280	13900	11600	27200	20500	14800	13100	12500	10700
20	7780	19000	17200	9460	13500	10700	25600	22000	14700	13100	12600	10400
21	7810	13500	17000	53800	12300	11200	24000	22900	14700	13100	12600	10400
22	7780	15000	16900	29000	10800	10300	22900	23000	14600	13100	12600	10400
23	7810	12900	16700	12400	10300	10200	24600	23000	14400	13100	12500	10400
24	7780	14700	16000	17700	10300	10200	26500	23300	14400	13100	12500	10400
25	7750	14500	15400	16300	10700	9520	25800	22900	14300	13100	12500	10400
26	7780	14500	15300	25500	10400	9070	23800	21900	14300	13100	12500	10400
27	7780	14300	15200	23700	10200	8700	26700	20600	14200	13000	12500	10300
28	7780	15600	14300	31900	10000	8540	22800	19300	14100	13000	12500	9980
29	7810	20400	12500	55400	---	8560	21300	18700	14100	13100	12200	9980
30	7860	16400	11700	56000	---	8470	20500	18100	14100	13100	12100	9750
31	7920	---	10100	77400	---	11900	---	17700	---	13000	12000	---
TOTAL	240890	334140	751000	534470	650100	306350	592930	607600	457600	412300	392300	331110
MEAN	7771	11140	24230	17240	23220	9882	19760	19600	15250	13300	12650	11040
MAX	7920	20400	53000	77400	58600	16600	28100	23300	17300	14200	13000	12000
MIN	7670	8000	10100	5280	10000	6770	9580	15500	14100	13000	12000	9750
AC-FT	477800	662800	1490000	1060000	1289000	607600	1176000	1205000	907600	817800	778100	656800

CAL YR 1966 TOTAL 4556610 MEAN 12480 MAX 63800 MIN 6850 AC-FT 9038000
WTR YR 1967 TOTAL 5610790 MEAN 15370 MAX 77400 MIN 5280 AC-FT 11130000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9550	10000	8210	8810	11200	29900	8790	10500	9440	13300	14500	10500
2	9660	8870	8100	8480	17200	25200	8930	10500	9450	13500	14500	10600
3	10100	8560	10900	8460	18800	20000	8590	10500	9690	13700	14500	10500
4	9840	8590	11100	8370	13300	16800	8430	10500	10000	13600	14500	10500
5	9810	7920	13600	8180	11600	16500	8370	10600	10400	14000	14500	10500
6	9780	7560	9840	7640	10800	16300	8290	10500	10700	14200	14400	10500
7	9750	7640	12700	7380	10500	16000	8050	10500	10900	14000	14400	10600
8	9720	7670	11000	7430	10100	15900	8020	10500	11000	14000	14500	10600
9	9750	7670	9890	7740	9840	15600	8400	10400	10900	13900	14400	10600
10	9720	7700	9490	20500	9720	14800	8840	10400	10900	14000	14400	10600
11	9720	7700	9430	11900	9630	14200	8840	10400	10700	14000	14500	10600
12	9720	7730	9420	9090	9320	13600	8810	10400	10600	14200	14500	10600
13	9660	7750	9230	9010	9350	16300	8760	10500	10500	14500	14500	10600
14	9580	8080	9090	22200	9210	16300	8700	10500	10400	14500	14100	10600
15	9580	8130	9090	41000	9070	15200	8730	9810	10700	14500	13800	10700
16	9580	7830	9150	20100	9480	17300	9120	9320	10800	14500	13400	10600
17	9550	7810	9150	13900	24600	16300	9370	9180	10800	14400	12900	10600
18	9550	7780	9180	10800	18500	12300	9630	9150	10400	14400	12700	10500
19	9600	7810	9210	9690	17100	11000	10300	9180	11900	14400	12800	10600
20	9600	7940	9120	9150	42100	10200	11000	9350	11900	14400	12300	10600
21	9660	7780	9090	8840	32500	9630	11200	9490	12000	14400	11800	10600
22	9720	7780	9040	8760	32800	9400	11100	9430	11900	14400	11200	10600
23	9750	7780	9070	8620	41400	9120	11200	9430	11900	14400	11000	10400
24	9780	7780	9070	8460	54800	9010	11500	9290	11900	14400	10900	10200
25	9810	7780	9090	8320	61900	8930	11100	9210	12400	14400	10900	10200
26	9840	7810	9180	8290	58800	9210	10900	9180	13100	14400	10900	10200
27	9840	7860	9290	8180	56800	8900	10800	8980	13300	14400	10900	10200
28	9860	7860	9350	8080	46200	8760	10800	8870	13300	14400	10800	10200
29	9840	8080	9320	15300	36200	8650	10800	8810	13300	14400	10600	10300
30	9860	8270	9260	23900	---	8650	10800	8650	13400	14400	10600	10300
31	9980	---	9230	13500	---	8650	---	8620	---	14400	10600	---
TOTAL	301760	239520	297890	370080	702820	428610	288170	302650	338580	440400	400300	314700
MEAN	9734	7984	9609	11940	24240	13830	9606	9763	11290	14210	12910	10490
MAX	10100	10000	13600	41000	61900	29900	11500	10600	13400	14500	14500	10700
MIN	9550	7560	8100	7380	9070	8650	8020	8620	9440	13300	10600	10200
AC-FT	598500	475100	590900	734100	1394000	850100	571600	600300	671600	873500	794000	624200

CAL YR 1967 TOTAL 5123930 MEAN 14040 MAX 77400 MIN 5280 AC-FT 10160000
WTR YR 1968 TOTAL 4425480 MEAN 12090 MAX 61900 MIN 7380 AC-FT 8778000

11377100 SACRAMENTO RIVER ABOVE BEND BRIDGE, NEAR RED BLUFF, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9320	7670	7730	8620	29100	41400	12500	14200	15700	14200	12100	12000
2	8410	7710	7820	8670	24700	26900	11900	14100	15700	13300	12100	12000
3	8100	8290	7620	9170	20700	26100	11300	14000	15600	12700	12100	11700
4	7710	8090	7560	9510	19800	21300	10500	13800	15500	12700	12100	10900
5	7420	7820	7550	9320	26100	19600	13000	13700	15400	12700	12000	10000
6	7440	7710	7510	8580	36100	17100	15000	13700	15400	12700	12100	9430
7	7400	7740	7490	8000	25200	15400	12300	14100	15300	12600	12000	9430
8	7350	7690	7650	7350	22200	14300	11500	14300	15300	12600	12100	9430
9	7350	7730	7830	6750	37900	13900	11200	14500	15400	12600	12100	9430
10	7350	7760	20100	6380	33800	13600	10900	14700	15500	12500	12100	9390
11	7530	7780	16300	13000	49800	12500	10800	14800	15500	12500	12100	9380
12	8050	8410	9740	59800	71600	11800	11000	14900	15400	12500	12100	9380
13	8350	8250	8540	80000	55000	11200	11100	15800	15300	12500	12100	9390
14	8420	8160	19300	32400	55800	10900	10800	16600	15200	12500	12100	9390
15	8180	8160	19000	18300	73500	10400	10600	14300	15100	12500	12000	9390
16	8010	8290	14700	14300	59800	10100	9830	17900	15000	12400	12100	9390
17	8000	7980	9780	11800	53300	9810	10100	18900	14900	12300	12100	9390
18	7960	8240	8410	11400	52600	10900	10800	18700	14900	12300	12000	9450
19	7980	8480	7730	27300	51000	10700	10600	18700	15000	12300	12000	9480
20	7980	8010	7420	48900	49800	10600	10500	18400	15000	12300	12100	9470
21	7940	7820	7190	58900	41000	11200	10500	18300	14900	12300	12000	9480
22	7920	7640	7110	81100	30200	10900	11200	18100	14800	12300	12000	9470
23	7830	7640	7280	66900	31000	10800	12900	17300	14800	12400	12000	9410
24	7820	7650	23400	62800	38800	10800	14000	17300	14700	12300	12000	9410
25	7800	7830	34600	63900	35200	10800	13100	17200	14700	12300	12000	9410
26	7800	7710	19800	71500	27800	10800	13200	17200	14700	12300	12000	9390
27	7800	7620	12800	66000	24900	11000	13400	17100	14700	12300	12000	9410
28	7820	7550	25500	62800	42900	11500	13300	16900	14600	12200	12000	9430
29	8160	7550	17400	49700	---	11900	13400	16800	14600	12200	12000	9450
30	8560	7650	11600	36600	---	12200	14000	16700	14500	12200	12000	9430
31	8200	---	9740	35200	---	12400	---	15700	---	12200	12000	---
TOTAL	245960	236630	386200	1054950	1119600	442810	355230	498700	453100	387700	373500	292110
MEAN	7934	7888	12460	34030	39990	14280	11840	16090	15100	12510	12050	9737
MAX	9320	8480	34600	81100	73500	41400	15000	18900	15700	14200	12100	12000
MIN	7350	7550	7110	6380	19800	9810	9830	13700	14500	12200	12000	9380
AC-FT	487900	469400	766000	2092000	2221000	878300	704600	989200	898700	769000	740800	579400

CAL YR 1968 TOTAL 4455100 MEAN 12170 MAX 61900 MIN 7110 AC-FT 8837000
WTR YR 1969 TOTAL 5846490 MEAN 16020 MAX 81100 MIN 6380 AC-FT 11600000

NOTE.--NO GAGE-HEIGHT RECORD JAN. 12-23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9120	8390	8350	22800	86400	23200	9050	11900	9320	10400	9840	9360
2	8440	8400	8350	20400	79800	13200	8480	11900	9410	10300	9830	8980
3	8280	8390	8330	16700	71600	12200	8210	11900	9660	10300	9770	8820
4	8170	8370	8330	16200	69400	15700	8130	10800	9770	10300	9790	8800
5	8210	8850	8310	15900	63000	18200	8100	10100	9840	10300	9810	8580
6	8150	9300	8330	15800	60300	13500	8060	10200	10200	10200	9840	8530
7	8150	9110	8330	15600	59600	13200	8030	10200	10300	10200	9830	8460
8	7850	8760	8350	15700	58600	18300	7950	10300	10300	10300	9830	8440
9	8210	8660	8100	30800	52600	14900	7900	10300	10500	10300	9830	8440
10	8210	7680	7430	40400	46800	16100	7880	10300	10700	10600	9830	8420
11	8210	6260	7350	24500	42600	14000	8330	10300	10500	11000	9650	8170
12	8220	5560	17600	26000	38800	13500	8840	10300	10400	11200	9740	8060
13	8210	8040	27500	28200	38200	13300	9070	9610	10300	11300	9290	7970
14	8240	8510	16800	54000	33100	13200	9270	8820	10400	11200	9390	7920
15	8550	8490	15800	53600	26100	12700	9180	8570	10400	11200	9250	7990
16	9050	8480	14200	83100	24300	12000	9110	8530	10300	11300	9340	7990
17	9020	8460	13900	68000	29900	11800	9090	8550	10200	11200	9360	7970
18	8690	8460	14400	59000	24500	12300	9030	8570	10200	11200	9470	7990
19	8660	8420	43000	50700	22600	11900	9050	8580	10200	11200	9540	7990
20	8570	8440	48600	74800	20600	11300	9230	8570	10600	11300	9380	7940
21	8490	8440	46700	93900	19800	10600	9560	8530	10600	11300	9200	7920
22	8480	8460	36300	104000	18500	10500	9990	8510	10500	11300	9360	7880
23	8460	8440	44900	111000	17400	10300	10500	8460	10500	11300	9410	7900
24	8440	8420	46600	123000	17200	10200	11300	8690	10500	11400	9360	7900
25	8480	8400	47400	112000	17100	10200	11800	8870	10500	11100	9290	7940
26	8480	8400	43900	103000	17000	10100	11800	8910	10600	10800	9300	7950
27	8440	8390	41600	127000	16800	9990	11800	8940	10600	10800	9340	7860
28	8480	8390	40200	107000	15800	9930	11800	8980	10600	10900	9340	7680
29	8460	8390	39000	97100	---	9830	11700	8940	10700	10400	9410	7760
30	8440	8370	28900	92400	---	9750	11700	8930	10600	10300	9390	7720
31	8400	---	23300	90400	---	9570	---	9050	---	9990	9380	---
TOTAL	261260	249130	740160	1893000	1088400	395470	283940	295110	309200	334890	295390	245330
MEAN	8428	8304	23880	61060	38870	12760	9465	9520	10310	10800	9529	8178
MAX	9120	9300	48600	127000	86400	23200	11800	11900	10700	11400	9840	9360
MIN	7850	5560	7350	15600	15800	9570	7880	8460	9320	9990	9200	7680
AC-FT	518200	494100	1468000	3755000	2159000	784400	563200	585400	613300	664300	585900	486600

CAL YR 1969 TOTAL 6228250 MEAN 17060 MAX 81100 MIN 5560 AC-FT 12350000
WTR YR 1970 TOTAL 6391280 MEAN 17510 MAX 127000 MIN 5560 AC-FT 12680000

NOTE.--NO GAGE-HEIGHT RECORD JAN. 17-26.

11377500 PAYNES CREEK NEAR RED BLUFF, CALIF.

LOCATION.--Lat 40°15'50", long 122°11'10", in SE¼ sec.22, T.28 N., R.3 W., Tehama County, on right bank 0.4 mile upstream from mouth and 6.5 miles northeast of Red Bluff.

DRAINAGE AREA.--92.8 sq mi (revised).

PERIOD OF RECORD.--October 1949 to September 1966. Annual maximums, water years 1967, 1969-70.

GAGE.--Crest-stage gage. Altitude of gage is 360 ft (from topographic map). Prior to Oct. 1, 1966, water-stage recorder at present site and datum.

AVERAGE DISCHARGE.--17 years, 70.6 cfs (51,110 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (1,200 cfs), water years 1966-67, 1969-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Feb. 6, 1966	0445	*1,170	5.56	Jan. 21, 1969	-	*7,200	9.83	Jan. 23, 1970	-	*8,140	10.26
Jan. 21, 1967	-	*5,170	8.82								

No flow for many days in water year 1966.

Period of record: Maximum discharge, 10,600 cfs Dec. 1, 1961 (gage height, 11.33 ft), no flow at times in most years.

REMARKS.--Records good. Diversions up to 10 cfs at times above station for irrigation. Water-quality records for the water year 1966 are published in reports of the Geological Survey.

REVISIONS (WATER YEARS).--WSP 1285: 1950, 1951-52(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.90	1.2	20	66	270	90	29	2.4	.40	.20		
2	.90	1.2	17	55	172	76	27	2.6	.40	.30		
3	.70	1.8	15	46	173	64	26	3.1	.30	.20		
4	.70	2.1	14	209	666	56	28	4.0	.30	0		
5	.70	2.1	12	703	289	60	28	3.2	.20	0		
6	.80	2.1	12	268	564	62	26	2.4	.40	0		
7	.60	2.6	12	150	233	57	21	2.6	.50	0		
8	.60	3.0	12	115	149	51	13	2.2	.40	0		
9	.70	2.3	11	102	111	47	15	3.0	.20	0		
10	.90	2.1	9.8	79	89	55	17	4.8	.20	0		
11	.80	2.3	12	65	73	67	18	4.3	.20	.20		
12	.70	4.0	16	55	63	59	18	3.1	.20	.20		
13	.70	8.9	14	48	56	56	16	2.9	.10	.10		
14	.90	56	12	43	50	53	16	4.3	0	0		
15	1.2	260	11	38	42	50	14	.90	0	0		
16	.90	69	11	34	38	78	13	.80	0	0		
17	1.3	160	9.8	31	36	74	11	.90	0	0		
18	1.2	290	9.8	29	34	65	12	.90	0	0		
19	2.0	100	9.8	27	74	65	12	.90	0	0		
20	1.8	58	8.9	25	288	64	12	.70	0	0		
21	1.3	38	8.9	24	82	58	12	.60	0	0		
22	1.8	30	8.0	24	64	52	11	.60	0	0		
23	1.7	24	8.0	22	87	49	11	.50	0	0		
24	1.7	44	49	21	382	49	10	.30	.20	0		
25	1.7	62	59	20	267	45	6.2	.20	0	0		
26	1.7	56	36	20	251	42	2.4	.20	.10	0		
27	1.7	42	29	19	147	39	1.8	.20	0	0		
28	1.3	32	245	18	109	36	2.1	.30	.10	0		
29	1.3	29	321	96	---	35	2.5	.50	.10	0		
30	1.3	24	140	377	---	33	2.2	.60	.20	0		
31	1.2	---	89	157	---	29	---	.50	---	0		---
TOTAL	35.70	1409.7	1242.0	2986	4859	1716	433.2	54.50	4.50	1.20	0	0
MEAN	1.15	47.0	40.1	96.3	174	55.4	14.4	1.76	.15	.039	0	0
MAX	2.0	290	321	703	666	90	29	4.8	.50	.30	0	0
MIN	.60	1.2	8.0	18	34	29	1.8	.20	0	0	0	0
AC-FT	71	2800	2460	5920	9640	3400	859	108	8.9	2.4	0	0

CAL YR 1965 TOTAL 26094.40 MEAN 71.5 MAX 3690 MIN 0 AC-FT 51760
WTR YR 1966 TOTAL 12741.80 MEAN 34.9 MAX 703 MIN 0 AC-FT 25270

11378800 RED BANK CREEK NEAR RED BLUFF, CALIF.

LOCATION.--Lat 40°05'25", long 122°24'45", in NE¼SE¼ sec.22, T.26 N., R.5 W., Tehama County, on road bridge near left bank, 0.1 mile downstream from unnamed tributary, 1.8 miles southeast of town of Red Bank, and 11 miles (revised) southwest of Red Bluff.

DRAINAGE AREA.--93.5 sq mi.

PERIOD OF RECORD.--October 1959 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 470 ft (from topographic map).

AVERAGE DISCHARGE.--11 years, 46.6 cfs (33,760 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Nov. 15, 1965	5,980	8.72	Long periods	0
1967	Jan. 30, 1967	5,700	8.65	do.	0
1968	Jan. 29, 1968	3,320	7.81	do.	0
1969	Feb. 24, 1969	9,160	9.92	do.	0
1970	Jan. 23, 1970	8,740	10.01	do.	0

Period of record: Maximum discharge, 9,730 cfs Jan. 5, 1965 (gage height, 10.06 ft); no flow for several months in each year.

REMARKS.--Some small storage ponds and possibly some diversions for irrigation upstream. Water-quality records for the water year 1966 are published in reports of the Geological Survey.

COOPERATION.--Records furnished by California Department of Water Resources and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	12	27	202	50	19	3.4				
2		0	11	25	94	44	18	3.1				
3		0	10	29	489	39	16	3.1				
4		0	10	2,100	946	38	16	2.8				
5		0	10	1,420	303	73	16	2.0				
6		0	9.5	668	191	62	14	2.6				
7		0	9.0	313	148	52	13	2.7				
8		0	9.0	201	122	50	13	2.4				
9		0	9.0	151	104	51	14	2.4				
10		0	8.6	122	90	67	16	2.9				
11		0	8.9	107	79	55	13	3.0				
12		0	11	92	73	50	13	2.4				
13		0	10	86	67	47	12	2.0				
14		150	8.8	81	65	45	12	1.5				
15		1,860	8.1	73	60	42	11	1.4				
16		200	7.6	67	53	41	11	1.3				
17		413	7.5	64	51	35	9.5	1.0				
18		239	7.8	62	51	34	8.9	.80				
19		125	7.9	58	120	31	8.3	.50				
20		78	7.6	55	81	28	7.8	.30				
21		49	7.5	50	60	27	7.8	.30				
22		32	7.7	48	55	24	7.3	.10				
23		25	7.4	47	55	22	6.7	0				
24		23	9.4	45	53	21	6.2	0				
25		20	14	48	81	20	5.8	0				
26		18	12	47	120	20	5.3	0				
27		15	11	47	64	20	4.9	0				
28		14	173	45	55	20	4.9	0				
29		13	97	67	------	20	4.1	0				
30		12	54	100	------	20	3.7	0				
31		------	40	67	------	20	------	0	------			------
TOTAL	0	3,286	616.3	6,412	3,932	1,168	318.2	42.00	0	0	0	0
MEAN	0	110	19.9	207	140	37.7	10.6	1.35	0	0	0	0
MAX	0	1,860	173	2,100	946	73	19	3.4	0	0	0	0
MIN	0	0	7.4	25	51	20	3.7	0	0	0	0	0
AC-FT	0	6,520	1,220	12,720	7,800	2,320	631	83	0	0	0	0

CAL YR 1965 TOTAL 21,450.20 MEAN 58.8 MAX 3,270 MIN 0 AC-FT 42,550
WTR YR 1966 TOTAL 15,774.50 MEAN 43.2 MAX 2,100 MIN 0 AC-FT 31,290

11378800 RED BANK CREEK NEAR RED BLUFF, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	47	8.4	544	17	59	65	12	1.5		
2		0	702	7.8	363	17	63	60	142	1.1		
3		0	222	7.8	268	15	49	55	60	.80		
4		0	1,060	7.8	213	15	41	53	31	.50		
5		0	811	7.2	161	13	36	50	28	.40		
6		0	157	6.2	124	12	179	45	28	.10		
7		0	81	5.9	105	12	414	42	24	0		
8		0	55	5.9	79	12	161	41	20	0		
9		0	39	5.9	67	12	120	41	18	0		
10		0	57	5.9	57	13	161	39	16	0		
11		0	47	5.5	53	24	398	36	14	0		
12		0	39	5.5	48	25	170	34	14	0		
13		0	49	5.2	44	35	128	29	14	0		
14		0	55	4.9	38	23	107	26	12	0		
15		0	39	4.9	35	22	92	24	10	0		
16		0	32	4.6	33	321	84	22	8.3	0		
17		0	28	4.6	33	150	128	20	7.2	0		
18		0	22	4.6	32	94	97	20	6.7	0		
19		69	20	4.6	27	73	148	18	6.7	0		
20		387	18	136	25	59	128	16	6.2	0		
21		125	16	779	24	57	97	14	5.8	0		
22		43	14	123	24	51	151	14	4.5	0		
23		17	12	53	24	47	216	12	4.1	0		
24		11	12	1,110	23	43	148	10	3.7	0		
25		8.4	12	186	23	38	136	9.5	3.4	0		
26		7.1	12	1,670	20	36	122	9.5	3.1	0		
27		6.3	10	782	19	32	107	8.9	2.8	0		
28		27	9.8	959	17	30	102	8.9	2.5	0		
29		65	9.8	1,180	------	26	84	8.9	1.9	0		
30		26	9.1	1,350	------	101	73	7.8	1.9	0		
31		------	8.4	1,400	------	81	------	7.8	------	0		------
TOTAL	0	791.8	3,705.1	9,841.2	2,523	1,506	3,999	847.3	511.8	4.40	0	0
MEAN	0	26.4	120	317	90.1	48.6	133	27.3	17.1	.14	0	0
MAX	0	387	1,060	1,670	544	321	414	65	142	1.5	0	0
MIN	0	0	8.4	4.6	17	12	36	7.8	1.9	0	0	0
AC-FT	0	1,570	7,350	19,520	5,000	2,990	7,930	1,680	1,020	8.7	0	0

CAL YR 1966 TOTAL 16,369.10 MEAN 44.8 MAX 2,100 MIN 0 AC-FT 32,470
WTR YR 1967 TOTAL 23,729.60 MEAN 65.0 MAX 1,670 MIN 0 AC-FT 47,070

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	2.5	125	51	14	1.7				
2			0	1.9	332	45	18	1.5				
3			0	1.7	191	39	11	1.3				
4			4.2	1.7	131	34	8.9	1.3				
5			29	1.7	88	33	8.9	1.3				
6			9.5	1.5	62	28	7.8	1.1				
7			24	1.7	50	27	7.2	1.1				
8			14	1.7	41	28	6.7	.80				
9			7.8	2.2	35	24	6.7	.60				
10			5.8	101	38	21	6.2	.50				
11			4.5	29	30	20	6.7	.40				
12			3.4	15	26	24	6.2	.40				
13			3.1	22	34	33	5.3	.50				
14			1.9	891	30	24	5.3	1.1				
15			2.2	380	26	20	5.3	1.7				
16			2.8	100	246	33	4.5	1.3				
17			2.2	48	635	27	4.1	.90				
18			4.1	31	223	20	4.1	.60				
19			4.9	24	437	19	3.7	.90				
20			4.1	19	391	17	3.4	1.9				
21			3.1	17	281	16	3.4	1.9				
22			3.1	15	239	16	3.4	1.9				
23			2.8	14	247	15	3.4	1.5				
24			2.8	12	170	14	3.1	.90				
25			3.1	11	120	14	2.8	.80				
26			3.1	9.5	95	13	2.8	.50				
27			3.1	8.9	77	12	2.2	.40				
28			3.1	9.5	64	10	2.2	.40				
29			2.5	951	56	10	1.9	.20				
30			2.5	370	------	8.9	1.9	.10				
31		------	2.5	154	------	8.3	------	0	------			------
TOTAL	0	0	159.2	3,248.5	4,520	704.2	171.1	29.50	0	0	0	0
MEAN	0	0	5.14	105	156	22.7	5.70	.95	0	0	0	0
MAX	0	0	29	951	635	51	18	1.9	0	0	0	0
MIN	0	0	0	1.5	26	8.3	1.9	0	0	0	0	0
AC-FT	0	0	316	6,440	8,970	1,400	339	59	0	0	0	0

CAL YR 1967 TOTAL 19,391.90 MEAN 53.1 MAX 1,670 MIN 0 AC-FT 38,460
WTR YR 1968 TOTAL 8,832.50 MEAN 24.1 MAX 951 MIN 0 AC-FT 17,520

11378800 RED BANK CREEK NEAR RED BLUFF, CALIF.--CONTINUED

DISCHARGF, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	85	125	726	64	18	.80			
2			0	104	107	456	62	16	.70			
3			0	117	89	338	63	15	.50			
4			0	112	77	255	53	14	.50			
5			0	90	1,030	212	57	13	.60			
6			0	69	1,260	180	53	11	.70			
7			0	54	305	157	47	11	.70			
8			0	44	287	142	43	10	.90			
9			0	37	682	128	41	10	1.7			
10			63	33	335	116	38	9.6	2.7			
11			21	329	1,770	104	36	9.0	3.4			
12			7.4	3,200	581	104	37	8.4	2.7			
13			5.3	1,850	299	88	36	7.6	1.9			
14			41	405	550	80	34	8.1	1.3			
15			327	185	788	75	32	7.3	.90			
16			90	114	315	70	30	6.6	.40			
17			39	77	236	97	30	5.8	.20			
18			31	169	261	81	31	5.2	.10			
19			29	1,660	201	67	29	4.7	.10			
20			27	1,720	170	78	29	4.0	4.6			
21			28	1,190	140	271	28	3.6	3.1			
22			32	458	85	121	29	3.3	1.7			
23			39	281	173	92	31	3.0	.90			
24			1,000	196	1,630	80	28	2.9	.50			
25			684	189	410	74	24	2.9	.30			
26			288	958	310	70	22	2.9	.10			
27			247	280	678	69	21	2.7	0			
28			632	208	1,720	70	20	2.4	0			
29			226	169	------	71	19	1.7	0			
30			135	175	------	70	19	1.3	0			
31		------	97	141	------	68	------	1.0	------			------
TOTAL	0	0	4,088.7	14,699	14,614	4,610	1,086	222.0	32.00	0	0	0
MEAN	0	0	132	474	522	149	36.2	7.16	1.07	0	0	0
MAX	0	0	1,000	3,200	1,770	726	64	18	4.6	0	0	0
MIN	0	0	0	33	77	67	19	1.0	0	0	0	0
AC-FT	0	0	8,110	29,160	28,990	9,140	2,150	440	63	0	0	0

CAL YR 1968 TOTAL 12,762.00 MEAN 34.9 MAX 1,000 MIN 0 AC-FT 25,310
WTR YR 1969 TOTAL 39,351.70 MEAN 108 MAX 3,200 MIN 0 AC-FT 78,050

DISCHARGF, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	41	187	53	18	5.1	1.5			
2			0	39	168	47	18	4.8	1.4			
3			0	38	156	44	17	4.6	1.3			
4			0	37	146	495	16	3.7	1.0			
5			0	36	134	281	15	3.7	.80			
6			0	35	127	162	15	4.0	.60			
7			0	37	120	147	14	4.3	.40			
8			0	44	114	166	14	4.5	.50			
9			0	1,290	107	153	14	5.0	.80			
10			0	365	101	131	13	4.7	.70			
11			0	192	99	103	12	4.4	.30			
12			30	159	111	91	12	4.5	.10			
13			45	323	237	81	15	4.3	0			
14			14	828	143	73	16	3.6	.20			
15			11	308	114	65	14	3.3	.10			
16			9.1	1,720	236	55	13	3.1	0			
17			11	415	199	46	12	3.0	0			
18			18	264	145	42	11	2.9	0			
19			274	238	126	39	9.9	2.7	0			
20			282	310	116	37	9.2	2.8	0			
21			362	748	101	35	9.2	2.8	0			
22			132	514	80	33	8.5	2.6	0			
23			253	3,250	75	30	8.2	2.3	0			
24			160	1,630	70	28	7.7	2.1	0			
25			112	551	64	25	7.3	2.0	0			
26			86	922	59	24	7.3	1.9	0			
27			69	1,570	54	22	7.0	1.9	0			
28			59	420	54	22	6.6	2.0	0			
29			53	298	------	21	5.9	1.9	0			
30			49	244	------	20	5.6	1.7	0			
31		------	46	212	------	19	------	1.6	------			------
TOTAL	0	0	2,075.1	17,078	3,443	2,590	351.4	101.8	9.70	0	0	0
MEAN	0	0	66.9	551	123	83.5	11.7	3.28	.32	0	0	0
MAX	0	0	362	3,250	237	495	18	5.1	1.5	0	0	0
MIN	0	0	0	35	54	19	5.6	1.6	0	0	0	0
AC-FT	0	0	4,120	33,870	6,830	5,140	697	202	19	0	0	0

CAL YR 1969 TOTAL 37,338.10 MEAN 102 MAX 3,200 MIN 0 AC-FT 74,060
WTR YR 1970 TOTAL 25,649.00 MEAN 70.3 MAX 3,250 MIN 0 AC-FT 50,870

11378860 RED BANK CREEK AT RAWSON ROAD BRIDGE, NEAR RED BLUFF, CALIF.

LOCATION.--Lat 40°08'20", long 122°14'20", in La Barranca Colorada land grant, on right bank upstream side of Rawson Road bridge, 2.6 miles south of Red Bluff.

DRAINAGE AREA.--109 sq mi.

PERIOD OF RECORD.--October 1964 to September 1967 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 275.02 ft above mean sea level (levels by Bureau of Reclamation). Prior to Oct. 1, 1965, at datum 10.00 ft higher.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-67 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Nov. 15, 1965	3,780	17.14	Long periods	0
1967	Jan. 30, 1967	4,750	18.01	do.	0

Period of record: Maximum discharge, 12,900 cfs Jan. 5, 1965 (gage height, 16.17 ft), from rating curve extended above 5,100 cfs; no flow for many days in each year.

REMARKS.--No regulation or diversion above station. Water-quality records for the water years 1966-67 are published in reports of the Geological Survey.

COOPERATION.--Records furnished by Bureau of Reclamation and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	5.9	39	221	62	16	.30				
2		0	4.8	30	184	55	15	.10				
3		0	4.0	27	290	47	13	0				
4		0	3.6	1,320	1,220	43	12	0				
5		0	3.5	1,520	529	71	12	0				
6		0	3.2	790	248	77	11	0				
7		0	3.1	302	148	66	11	.10				
8		0	3.1	223	126	57	11	.10				
9		0	3.0	168	106	54	13	.20				
10		0	2.7	120	95	66	15	.30				
11		0	2.8	90	81	62	14	.40				
12		0	3.6	72	71	55	13	.40				
13		0	4.2	60	64	51	11	0				
14		522	3.5	52	59	48	9.6	0				
15		1,410	2.7	48	50	47	8.0	0				
16		250	2.2	42	46	45	6.9	0				
17		410	1.8	37	39	38	6.3	0				
18		434	1.5	32	36	36	5.5	0				
19		156	1.4	28	182	32	4.2	0				
20		85	1.3	25	121	29	3.7	0				
21		55	1.3	23	78	27	4.1	0				
22		37	1.2	22	75	25	3.7	0				
23		36	.90	21	72	24	2.8	0				
24		47	1.4	19	76	22	2.6	0				
25		22	2.6	18	82	21	2.9	0				
26		18	5.5	17	277	21	2.3	0				
27		15	4.8	15	85	20	1.2	0				
28		13	103	14	72	19	1.3	0				
29		9.8	184	18	------	19	1.0	0				
30		7.5	81	99	------	18	.70	0				
31		------	56	50	------	17	------	0	------			------
TOTAL	0	3,527.3	503.60	5,341	4,733	1,274	233.80	1.90	0	0	0	0
MEAN	0	118	16.2	172	169	41.1	7.79	.061	0	0	0	0
MAX	0	1,410	184	1,520	1,220	77	16	.40	0	0	0	0
MIN	0	0	.90	14	36	17	.70	0	0	0	0	0
AC-FT	0	7,000	999	10,590	9,390	2,530	464	3.8	0	0	0	0

CAL YR 1965 TOTAL 18,965.30 MEAN 52.0 MAX 4,050 MIN 0 AC-FT 37,620
WTR YR 1966 TOTAL 15,614.60 MEAN 42.8 MAX 1,520 MIN 0 AC-FT 30,970

11378860 RED BANK CREEK AT RAWSON ROAD BRIDGE, NEAR RED BLUFF, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	34	7.7	683	18	94	77	7.8			
2		0	737	6.6	355	17	82	69	132			
3		0	478	5.6	190	16	57	61	109			
4		0	482	6.0	143	16	48	57	48			
5		0	1,260	6.3	122	14	41	53	32			
6		0	261	5.1	108	13	293	50	28			
7		0	74	4.2	98	12	417	45	23			
8		0	47	4.2	89	12	178	43	20			
9		0	36	4.0	82	11	121	42	16			
10		0	41	4.2	75	12	115	43	13			
11		0	48	4.5	68	18	477	41	11			
12		0	35	4.2	64	27	192	38	9.4			
13		0	36	4.2	61	34	129	35	9.2			
14		0	62	3.7	55	31	108	32	8.6			
15		0	45	2.9	51	26	91	29	6.4			
16		0	37	2.5	48	230	79	27	4.9			
17		0	34	2.1	45	123	121	24	3.5			
18		0	28	1.6	42	83	109	21	2.2			
19		45	24	1.8	38	65	133	19	1.4			
20		535	20	65	33	53	183	17	.90			
21		190	18	1,150	29	54	111	15	.50			
22		125	16	387	27	49	162	12	.20			
23		34	13	122	26	44	377	9.4	0			
24		19	13	1,470	26	42	204	7.5	0			
25		12	12	779	28	36	142	7.0	0			
26		8.8	11	1,690	24	33	160	6.7	0			
27		8.4	10	1,210	22	31	119	6.6	0			
28		17	8.8	1,290	19	29	125	6.6	0			
29		89	8.7	1,710	------	27	100	6.4	0			
30		40	9.6	1,640	------	63	87	6.3	0			
31		------	8.8	1,660	------	151	------	5.5	------			------
TOTAL	0	1,123.2	3,947.9	13,254.4	2,651	1,390	4,655	912.0	487.00	0	0	0
MEAN	0	37.4	127	428	94.7	44.8	155	29.4	16.2	0	0	0
MAX	0	535	1,260	1,710	683	230	477	77	132	0	0	0
MIN	0	0	8.7	1.6	19	11	41	5.5	0	0	0	0
AC-FT	0	2,230	7,830	26,290	5,260	2,760	9,230	1,810	966	0	0	0

CAL YR 1966 TOTAL 16,654.80 MEAN 45.6 MAX 1,520 MIN 0 AC-FT 33,030
WTR YR 1967 TOTAL 28,420.50 MEAN 77.9 MAX 1,710 MIN 0 AC-FT 56,370

11379000 ANTELOPE CREEK NEAR RED BLUFF, CALIF.

LOCATION.--Lat 40°12'14", long 122°07'02", in Rio De Los Berrendos Grant, Tehama County, on right bank 1.8 miles upstream from diversion dam of Los Molinos Mutual Water Co., 6.5 miles east of Red Bluff, and 9.7 miles upstream from mouth.

DRAINAGE AREA.--123 sq mi.

PERIOD OF RECORD.--October 1940 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 360 ft (from topographic map). Prior to Sept. 18, 1954, at site 0.6 mile downstream at different datum. Sept. 18, 1954, to July 9, 1969, at present site at datum 2.00 ft higher.

AVERAGE DISCHARGE.--30 years, 149 cfs (108,000 acre-ft per year); median of yearly mean discharges, 130 cfs (94,200 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (2,200 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Jan. 4, 1966	2230	*2,540	8.48	Jan. 10, 1968	0515	4,450	10.40	Feb. 15, 1969	1145	2,400	8.20
				Jan. 14, 1968	1830	*4,830	10.69				
Nov. 20, 1966	0045	2,490	8.41					Dec. 12, 1969	1530	4,120	12.13
Dec. 2, 1966	2015	*5,990	11.48	Dec. 10, 1968	1215	4,710	10.56	Dec. 19, 1969	1330	3,800	11.85
Dec. 5, 1966	0115	2,380	8.27	Dec. 15, 1968	1415	3,490	9.52	Dec. 21, 1969	1500	4,080	12.10
Jan. 21, 1967	1015	5,090	10.88	Dec. 24, 1968	1115	3,390	9.42	Jan. 9, 1970	1800	2,670	10.59
Jan. 29, 1967	0615	2,720	8.70	Jan. 13, 1969	0715	6,750	11.94	Jan. 14, 1970	1130	4,370	12.34
Jan. 31, 1967	0415	3,040	9.08	Jan. 21, 1969	1115	*9,430	13.25	Jan. 16, 1970	1330	3,640	11.70
Mar. 16, 1967	0430	2,430	8.34	Jan. 26, 1969	0415	3,100	9.12	Jan. 21, 1970	1800	2,390	10.19
								Jan. 23, 1970	2330	*17,200	17.95

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Many days	29	1969	Oct. 1-6, 8-10, 1968	35
1967	Oct. 2, 5-11, 1966	32	1970	Aug. 25, Sept.25-30, 1970	41
1968	Aug. 9, 10, 1968	32			

Period of record: Maximum discharge, 17,200 cfs Jan. 23, 1970 (gage height, 17.95 ft), from rating curve extended above 6,000 cfs on basis of slope-area measurement at gage height 15.96 ft (present datum); minimum, 8.2 cfs Oct. 27, 1961.

Flood in December 1937 reached a stage of about 22 ft, from floodmarks, at former site and datum.

REMARKS.--Records good except those for period of no gage-height record May 25 to Aug. 14, 1968, which are fair. No diversion above station.

REVISIONS (WATER YEARS).--WSP 1315-A: 1949(M). WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	40	52	105	327	155	115	117	53	35	33	32
2	39	41	49	87	236	128	122	117	52	35	31	31
3	39	42	47	79	221	111	126	120	52	35	31	30
4	39	42	46	797	673	102	127	123	50	35	30	30
5	40	42	45	1,050	325	108	124	131	47	35	30	29
6	40	42	44	375	267	116	123	130	47	34	30	29
7	40	44	44	233	215	112	127	124	51	34	29	30
8	39	55	44	196	166	108	130	120	50	34	29	31
9	40	48	44	176	131	106	132	120	47	35	29	31
10	40	44	43	134	114	134	183	125	45	35	29	31
11	40	44	44	114	99	147	182	119	43	35	29	31
12	40	51	50	99	91	134	165	109	43	36	30	31
13	40	60	47	89	83	142	147	101	42	36	29	32
14	41	161	44	82	79	146	134	98	40	36	29	36
15	43	232	44	77	75	139	130	91	39	35	29	35
16	42	102	43	72	71	159	136	86	39	35	29	33
17	42	212	41	69	69	138	152	81	38	35	29	33
18	42	378	41	66	67	127	156	78	38	34	29	37
19	42	172	40	64	93	143	144	76	37	34	29	36
20	42	111	40	61	94	134	132	74	37	33	29	34
21	41	76	40	59	78	123	124	72	37	33	29	33
22	41	63	40	59	76	113	119	70	38	32	29	33
23	40	57	40	60	96	104	119	67	38	31	29	33
24	40	155	58	58	227	99	122	62	38	31	29	33
25	40	138	125	56	220	95	130	59	37	31	29	32
26	40	105	79	55	203	92	141	57	36	31	30	32
27	40	83	65	55	153	93	132	56	35	30	30	32
28	40	69	431	54	129	96	125	55	35	31	30	32
29	41	60	341	142	------	100	121	54	34	31	30	32
30	40	55	196	446	------	105	118	53	35	31	31	33
31	40	------	140	297	------	110	------	54	------	33	34	------
TOTAL	1,253	2,824	2,447	5,366	4,678	3,719	4,038	2,799	1,253	1,041	922	967
MEAN	40.4	94.1	78.9	173	167	120	135	90.3	41.8	33.6	29.7	32.2
MAX	43	378	431	1,050	673	159	183	131	53	36	34	37
MIN	39	40	40	54	67	92	115	53	34	30	29	29
AC-FT	2,490	5,600	4,850	10,640	9,280	7,380	8,010	5,550	2,490	2,060	1,830	1,920

CAL YR 1965 TOTAL 53,443 MEAN 146 MAX 3,990 MIN 38 AC-FT 106,000
WTR YR 1966 TOTAL 31,307 MEAN 85.8 MAX 1,050 MIN 29 AC-FT 62,100

11379000 ANTELOPE CREEK NEAR RED BLUFF, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	36	374	60	902	86	220	263	266	97	46	41
2	32	36	1,810	58	557	84	189	238	234	91	46	41
3	33	37	1,020	57	396	82	191	224	213	85	45	41
4	33	37	678	55	305	80	180	220	203	79	45	41
5	32	37	1,180	54	251	78	213	218	216	75	45	41
6	32	65	451	54	214	75	804	210	206	72	45	41
7	32	58	268	54	190	74	531	210	206	69	45	41
8	32	40	188	54	171	73	359	237	205	66	45	41
9	32	38	148	54	155	72	288	281	215	64	44	41
10	32	37	163	54	144	75	265	306	217	63	44	41
11	32	37	142	54	134	643	392	272	233	61	44	41
12	33	42	134	54	127	612	310	250	240	59	43	41
13	33	47	148	53	124	522	247	219	220	57	43	41
14	33	43	168	53	123	326	228	208	207	56	43	40
15	35	67	140	52	116	265	210	222	203	55	43	40
16	35	157	128	52	112	1,420	200	268	196	54	42	40
17	34	71	116	51	108	798	380	325	198	54	42	40
18	34	52	108	51	103	522	462	365	193	54	42	44
19	34	282	101	51	99	414	448	396	196	53	42	43
20	35	1,120	94	299	94	416	373	414	191	52	41	42
21	34	330	90	2,350	90	374	305	435	180	52	41	41
22	35	464	85	981	88	324	286	460	164	51	41	41
23	36	149	80	408	86	345	402	475	149	50	41	41
24	36	97	77	605	86	318	510	485	142	50	41	41
25	36	77	75	357	120	272	591	453	135	49	41	41
26	36	67	72	442	107	239	598	406	129	49	41	41
27	36	62	70	645	94	212	765	382	119	48	43	40
28	36	249	68	839	89	197	508	365	113	48	41	40
29	36	830	66	1,700	------	193	383	338	108	49	41	40
30	37	257	64	1,540	------	181	306	317	103	48	41	40
31	36	------	62	1,990	------	197	------	291	------	47	41	------
TOTAL	1,055	4,921	8,368	13,181	5,185	9,569	11,144	9,753	5,600	1,857	1,328	1,228
MEAN	34.0	164	270	425	185	309	371	315	187	59.9	42.8	40.9
MAX	37	1,120	1,810	2,350	902	1,420	804	485	266	97	46	44
MIN	32	36	62	51	86	72	180	208	103	47	41	40
AC-FT	2,090	9,760	16,600	26,140	10,280	18,980	22,100	19,350	11,110	3,680	2,630	2,440

CAL YR 1966 TOTAL 39,127 MEAN 107 MAX 1,810 MIN 29 AC-FT 77,610
WTR YR 1967 TOTAL 73,189 MEAN 201 MAX 2,350 MIN 32 AC-FT 145,200

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	44	114	51	220	191	121	98	56	39	35	35
2	44	44	66	50	658	175	124	98	55	39	35	35
3	76	44	389	49	492	159	118	98	54	39	34	35
4	50	44	203	48	308	148	110	99	54	39	33	35
5	47	44	287	48	239	144	107	98	56	39	33	35
6	48	44	109	48	218	140	105	97	58	38	33	35
7	46	44	230	48	200	138	99	91	56	38	33	35
8	45	44	124	48	174	147	98	87	53	38	33	35
9	44	46	84	68	168	133	98	86	52	37	32	35
10	44	46	70	1,810	170	120	99	84	51	37	32	35
11	44	46	63	294	158	112	107	83	49	37	33	35
12	44	46	59	150	144	179	115	83	48	37	33	35
13	44	46	55	139	141	397	115	86	48	37	34	35
14	44	64	50	1,660	128	259	110	87	47	37	34	37
15	44	55	51	1,590	116	194	110	79	46	37	35	37
16	44	49	52	515	121	616	110	76	45	37	35	36
17	44	47	51	297	439	479	105	72	44	37	36	35
18	44	47	53	194	354	295	99	71	43	37	35	35
19	44	73	54	148	422	227	98	72	43	36	37	35
20	44	57	53	120	967	187	96	79	42	36	72	35
21	44	50	52	104	864	163	94	77	42	35	274	35
22	44	48	51	94	676	150	92	81	41	35	81	35
23	45	48	51	88	669	138	90	80	41	35	48	35
24	45	48	51	83	565	128	88	75	40	35	43	35
25	45	47	53	79	417	132	88	72	40	35	40	35
26	45	47	54	75	327	142	89	70	40	35	40	35
27	45	46	54	73	279	128	90	67	40	35	39	35
28	44	49	54	70	241	120	92	64	39	34	38	35
29	44	58	54	698	212	115	93	61	39	34	37	34
30	44	94	53	752	------	116	96	60	39	34	36	34
31	44	------	52	304	------	116	------	58	------	34	35	------
TOTAL	1,414	1,509	2,796	9,795	10,087	5,888	3,056	2,489	1,401	1,132	1,428	1,053
MEAN	45.6	50.3	90.2	316	348	190	102	80.3	46.7	36.5	46.1	35.1
MAX	76	94	389	1,810	967	616	124	99	58	39	274	37
MIN	41	44	50	48	116	112	88	58	39	34	32	34
AC-FT	2,800	2,990	5,550	19,430	20,010	11,680	6,060	4,940	2,780	2,250	2,830	2,090

CAL YR 1967 TOTAL 64,564 MEAN 177 MAX 2,350 MIN 40 AC-FT 128,100
WTR YR 1968 TOTAL 42,048 MEAN 115 MAX 1,810 MIN 32 AC-FT 83,400

11379000 ANTELOPE CREEK NEAR RED BLUFF, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	46	85	140	345	695	249	261	193	68	43	40
2	35	48	78	128	308	473	242	258	183	67	45	40
3	35	119	70	121	269	420	236	258	175	66	45	40
4	35	103	66	117	248	326	208	243	170	65	43	40
5	35	62	63	117	539	278	551	234	164	64	43	40
6	35	53	60	115	751	250	496	263	155	63	45	40
7	36	49	58	110	426	226	375	312	145	62	45	40
8	35	47	64	105	353	208	308	342	136	61	45	41
9	35	46	68	98	1,000	195	274	375	141	60	45	40
10	35	45	2,190	92	659	184	249	419	141	58	45	40
11	37	46	547	260	1,220	171	233	455	142	56	43	39
12	52	254	226	1,910	1,330	161	235	458	131	56	44	40
13	61	87	166	4,150	741	153	235	444	121	54	43	40
14	71	72	895	1,220	671	145	228	419	115	54	43	40
15	50	161	1,190	566	1,330	140	217	351	109	54	43	40
16	44	145	500	364	760	137	205	330	102	52	42	40
17	43	91	257	272	539	154	204	327	98	51	43	40
18	41	219	176	269	471	155	246	340	96	48	42	40
19	41	155	144	2,010	408	155	235	332	102	48	43	42
20	41	99	117	2,990	416	157	233	299	94	46	42	42
21	41	79	98	4,240	411	192	246	285	92	46	41	43
22	40	70	89	1,760	360	174	272	286	88	45	41	42
23	40	67	379	995	641	166	344	288	83	46	41	41
24	40	80	2,040	710	480	163	317	285	80	49	40	41
25	39	101	1,290	1,260	424	162	268	262	77	47	41	41
26	39	84	502	1,950	335	162	244	260	76	45	41	40
27	39	74	291	1,050	298	167	227	241	74	45	41	40
28	39	67	336	761	888	177	220	219	72	45	41	40
29	52	63	276	562	------	186	233	205	70	45	41	40
30	74	84	195	461	------	196	256	202	69	45	41	40
31	51	------	160	372	------	225	------	201	------	43	40	------
TOTAL	1,326	2,716	12,676	29,275	16,621	6,753	8,086	9,454	3,494	1,654	1,321	1,212
MEAN	42.8	90.5	409	944	594	218	270	305	116	53.4	42.6	40.4
MAX	74	254	2,190	4,240	1,330	695	551	458	193	68	45	43
MIN	35	45	58	92	248	137	204	201	69	43	40	39
AC-FT	2,630	5,390	25,140	58,070	32,970	13,390	16,040	18,750	6,930	3,280	2,620	2,400

CAL YR 1968 TOTAL 53,047 MEAN 145 MAX 2,190 MIN 32 AC-FT 105,200
WTR YR 1969 TOTAL 94,588 MEAN 259 MAX 4,240 MIN 35 AC-FT 187,600

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	48	47	140	426	1,200	127	88	69	57	45	43
2	42	48	47	128	368	710	125	87	67	56	45	43
3	42	48	47	117	327	479	121	87	66	54	44	43
4	43	48	47	111	299	499	120	87	65	53	44	45
5	43	374	47	103	270	505	117	87	64	51	44	46
6	42	118	47	98	247	360	116	89	63	50	43	45
7	42	95	47	96	231	323	115	91	62	50	43	45
8	46	83	55	104	215	980	110	91	62	50	43	44
9	49	70	59	1,250	204	590	108	98	68	50	43	44
10	47	61	55	829	193	703	107	103	88	49	43	44
11	45	57	109	462	185	484	106	98	74	49	43	44
12	45	55	2,040	449	257	390	104	100	66	49	42	44
13	45	53	890	1,120	476	336	105	93	66	48	42	44
14	47	51	285	2,970	416	301	111	90	81	48	42	44
15	59	51	183	1,350	288	276	110	88	74	48	42	44
16	132	51	128	2,290	493	251	107	88	67	48	42	43
17	113	51	112	1,580	800	233	104	91	65	48	42	43
18	62	49	105	1,030	440	215	100	93	62	47	42	43
19	54	49	1,720	791	344	202	101	93	61	46	42	43
20	51	49	1,210	769	290	191	98	91	58	46	42	43
21	49	49	2,050	1,740	257	182	97	89	57	47	42	43
22	48	49	942	1,820	231	173	96	87	56	47	42	42
23	48	49	1,040	5,670	212	168	94	86	56	46	42	42
24	48	48	1,130	4,700	199	159	91	84	55	46	42	42
25	48	48	799	1,660	185	155	91	83	55	46	41	41
26	48	48	551	1,140	175	151	96	83	54	45	42	41
27	48	48	357	1,530	168	147	100	82	55	45	42	41
28	48	48	262	1,000	177	141	95	81	62	45	43	41
29	48	47	214	769	------	138	91	78	77	45	42	41
30	48	47	182	615	------	135	90	75	61	45	43	41
31	48	------	156	505	------	131	------	72	------	45	43	------
TOTAL	1,620	1,990	14,963	36,936	8,373	10,908	3,153	2,733	1,936	1,499	1,322	1,292
MEAN	52.3	66.3	483	1,191	299	352	105	88.2	64.5	48.4	42.6	43.1
MAX	132	374	2,050	5,670	800	1,200	127	103	88	57	45	46
MIN	42	47	47	96	168	131	90	72	54	45	41	41
AC-FT	3,210	3,950	29,680	73,260	16,610	21,640	6,250	5,420	3,840	2,970	2,620	2,560

CAL YR 1969 TOTAL 96,443 MEAN 264 MAX 4,240 MIN 39 AC-FT 191,300
WTR YR 1970 TOTAL 86,725 MEAN 238 MAX 5,670 MIN 41 AC-FT 172,000

11379500 ELDER CREEK NEAR PASKENTA, CALIF.

LOCATION.--Lat 40°01'29", long 122°30'31", in SE¼NW¼ sec.14, T.25 N., R.6 W., Tehama County, on left bank 2.5 miles downstream from South Fork Elder Creek, 8.2 miles northwest of Flournoy, and 10 miles north of Paskenta.

DRAINAGE AREA.--92.9 sq mi.

PERIOD OF RECORD.--October 1948 to September 1970. Monthly discharge only for some periods, published in WSP 1315-A.

GAGE.--Water-stage recorder. Datum of gage is 718.1 ft (revised) above mean sea level. Prior to Aug. 13, 1965, water-stage recorder at site 300 ft downstream at datum 5.13 ft lower.

AVERAGE DISCHARGE.--22 years, 100 cfs (72,450 acre-ft per year); median of yearly mean discharges, 80 cfs (58,000 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (1,200 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Nov. 14, 1965	2300	*4,960	9.53	June 2, 1967	0300	1,410	5.33	Feb. 5, 1969	2330	1,960	6.18
Nov. 17, 1965	-	1,530	5.70					Feb. 11, 1969	1645	2,030	6.28
Dec. 28, 1965	1200	1,290	5.30	Jan. 14, 1968	1645	1,890	6.09	Feb. 28, 1969	-	2,140	6.45
Jan. 4, 1966	1730	3,880	8.59	Jan. 29, 1968	1415	1,380	5.29				
				Feb. 19, 1968	1915	*1,970	6.20	Dec. 21, 1969	0730	1,730	5.86
Nov. 19, 1966	1930	2,610	7.04					Jan. 14, 1970	-	-	-
Dec. 2, 1966	1615	1,710	5.73	Dec. 10, 1968	1045	1,720	5.88	Jan. 16, 1970	-	3,170	7.69
Dec. 4, 1966	2245	*3,380	7.91	Dec. 15, 1968	1015	2,480	6.88	Jan. 21, 1970	2115	2,030	6.29
Jan. 21, 1967	0730	2,170	6.49	Jan. 13, 1969	-	*3,850	8.38	Jan. 23, 1970	2100	*7,200	11.05
Jan. 26, 1967	0900	2,550	6.96	Jan. 19, 1969	2015	3,840	8.37	Jan. 26, 1970	2300	5,080	9.57
Jan. 29, 1967	0530	3,150	7.67	Jan. 26, 1969	0015	2,830	7.31	Mar. 4, 1970	1545	2,080	6.36

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Aug. 20-23, Sept.5-6, 1966	1.4	1969	Oct. 1, 1968	1.4
1967	Oct. 10, 1966	1.8	1970	Sept.12, 1970	1.6
1968	Sept.28, 29, 1968	1.1			

Period of record: Maximum discharge, 11,700 cfs Feb. 24, 1958 (gage height, 13.90 ft, site and datum then in use), from rating curve extended above 3,500 cfs on basis of slope-area measurements at gage heights 10.97 and 13.90 ft; no flow at times in some years.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. No regulation or large diversion above station. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

REVISIONS (WATER YEARS).--WSP 1515: 1956. WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	5.1	43	67	199	98	237	53	21	7.0	2.9	2.3
2	4.2	5.3	42	63	142	91	220	52	20	6.6	2.6	1.9
3	4.2	5.7	40	194	339	82	194	52	20	6.6	2.4	1.7
4	4.2	6.0	38	2,220	638	85	182	54	19	6.6	2.2	1.6
5	4.5	6.4	37	1,660	315	125	178	53	18	6.2	1.8	1.4
6	4.8	6.3	36	1,020	230	110	178	50	19	5.8	1.8	1.4
7	4.5	12	35	532	190	108	175	46	23	5.8	1.7	1.5
8	4.2	29	33	377	164	122	166	43	20	6.6	1.6	1.6
9	4.5	13	31	284	146	232	166	43	18	6.6	1.5	1.7
10	4.8	9.7	30	224	131	258	161	43	17	6.6	1.5	1.7
11	5.1	9.0	30	189	119	203	150	40	16	6.2	1.5	1.7
12	5.1	22	33	166	110	186	138	37	14	6.2	1.6	1.9
13	4.8	703	31	149	102	193	121	35	13	6.6	1.6	2.0
14	4.9	1,550	28	141	97	196	111	33	12	6.2	1.6	2.4
15	5.3	1,460	25	138	91	188	108	32	11	5.8	1.6	2.5
16	5.2	209	24	135	86	170	119	31	11	5.4	1.6	2.3
17	5.2	525	24	126	84	150	128	29	11	5.0	1.5	2.2
18	5.3	640	23	117	83	139	120	27	10	4.8	1.5	2.2
19	5.6	240	23	107	149	130	103	26	9.0	4.3	1.5	3.9
20	5.5	110	23	97	111	120	92	25	8.6	3.9	1.4	3.8
21	5.3	85	23	91	98	115	84	25	9.6	3.6	1.4	3.3
22	5.0	78	22	87	98	109	78	25	10	3.6	1.4	2.9
23	4.9	72	21	82	98	107	75	23	11	3.2	1.4	2.7
24	4.9	88	39	78	113	109	75	22	11	2.8	1.5	2.6
25	4.8	78	38	74	130	117	77	21	9.0	2.6	1.5	2.7
26	4.9	67	30	71	132	134	76	21	8.6	3.0	1.5	2.8
27	4.9	60	30	67	111	156	69	21	8.3	2.7	1.6	2.5
28	5.0	54	411	63	103	180	64	21	7.4	2.6	1.6	2.1
29	5.1	50	185	199	------	203	59	21	7.0	2.5	1.6	1.9
30	5.2	46	111	186	------	220	55	21	7.0	2.6	2.3	1.7
31	5.1	------	88	122	------	229	------	21	------	3.1	3.1	------
TOTAL	151.2	6,244.5	1,627	9,126	4,409	4,665	3,759	1,046	399.5	151.1	54.3	66.9
MEAN	4.88	208	52.5	294	157	150	125	33.7	13.3	4.87	1.75	2.23
MAX	5.6	1,550	411	2,220	638	258	237	54	23	7.0	3.1	3.9
MIN	4.2	5.1	21	63	83	82	55	21	7.0	2.5	1.4	1.4
AC-FT	300	12,390	3,230	18,100	8,750	9,250	7,460	2,070	792	300	108	133

CAL YR 1965 TOTAL 45,888.7 MEAN 126 MAX 3,100 MIN 3.6 AC-FT 91,020
WTR YR 1966 TOTAL 31,699.5 MEAN 86.8 MAX 2,220 MIN 1.4 AC-FT 62,880

NOTE.--NO GAGE-HEIGHT RECORD NOV. 16 TO DEC. 15.

11379500 ELDER CREEK NEAR PASKENTA, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	2.6	196	37	726	77	137	171	128	36	15	6.4
2	2.2	2.8	715	36	497	75	119	172	882	36	15	6.4
3	2.4	2.8	352	35	398	77	127	188	297	35	14	6.3
4	2.3	2.7	1,420	34	358	71	117	212	212	34	14	6.2
5	2.1	2.9	1,350	33	336	67	126	229	206	32	13	6.2
6	2.3	6.1	365	31	306	65	299	220	186	32	13	6.2
7	2.4	9.5	216	30	287	62	317	263	164	31	13	6.2
8	2.3	6.9	156	29	267	59	212	363	148	30	12	6.3
9	1.9	5.7	128	29	246	59	179	362	134	29	11	6.5
10	1.8	5.4	202	28	243	75	338	286	122	28	11	6.6
11	1.9	5.9	142	28	224	98	459	233	116	27	11	6.6
12	2.2	14	135	28	229	103	249	198	117	27	11	6.3
13	2.3	14	174	27	228	89	211	179	107	26	9.9	5.6
14	2.4	20	176	27	200	78	186	176	94	24	9.4	5.2
15	2.5	90	141	28	177	96	166	206	86	24	8.9	5.1
16	2.6	141	123	27	160	580	150	253	80	23	8.5	5.1
17	2.6	33	110	27	144	277	190	280	75	23	8.4	5.8
18	2.6	21	99	26	134	205	157	268	71	22	8.1	7.4
19	2.6	607	92	26	124	171	365	242	67	22	7.8	6.5
20	2.7	802	87	566	114	180	251	234	64	21	7.7	5.4
21	2.4	247	79	1,660	108	182	228	225	62	20	7.7	5.1
22	2.6	140	72	503	103	170	298	212	57	20	7.4	5.2
23	2.8	73	67	277	98	174	391	194	54	19	7.4	5.4
24	2.8	49	61	803	97	157	339	165	51	19	7.5	5.1
25	2.8	38	56	398	94	145	315	140	49	19	7.7	5.1
26	2.8	33	51	1,370	86	134	274	127	46	18	9.9	4.7
27	3.0	31	47	693	82	124	257	118	44	17	8.8	4.5
28	3.2	119	45	1,190	79	120	225	110	42	17	7.9	4.5
29	2.8	160	43	2,600	------	111	201	101	40	17	7.4	4.7
30	2.8	101	41	1,760	------	166	184	93	38	17	6.7	5.2
31	2.6	------	39	1,370	------	141	------	87	------	16	6.4	------
TOTAL	76.6	2,786.3	6,980	13,756	6,145	4,188	7,067	6,307	3,839	761	306.5	171.8
MEAN	2.47	92.9	225	444	219	135	236	203	128	24.5	9.89	5.73
MAX	3.2	802	1,420	2,600	726	580	459	363	882	36	15	7.4
MIN	1.8	2.6	39	26	79	59	117	87	38	16	6.4	4.5
AC-FT	152	5,530	13,840	27,290	12,190	8,310	14,020	12,510	7,610	1,510	608	341

CAL YR 1966 TOTAL 33,519.7 MEAN 91.8 MAX 2,220 MIN 1.4 AC-FT 66,490
WTR YR 1967 TOTAL 52,384.2 MEAN 144 MAX 2,600 MIN 1.8 AC-FT 103,900

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	6.0	13	20	168	178	92	40	17	5.4	2.6	2.6
2	9.2	5.7	13	18	388	158	81	39	17	5.1	2.2	2.5
3	17	5.7	72	17	270	143	74	38	17	5.4	1.9	2.2
4	10	6.5	78	16	187	138	69	39	17	5.1	1.7	2.0
5	11	6.9	108	16	168	136	68	37	18	4.8	1.6	2.1
6	10	6.9	34	15	182	123	64	36	20	4.8	1.6	2.1
7	9.2	7.4	69	14	175	114	61	33	22	3.9	1.3	2.0
8	8.3	7.4	33	15	161	114	60	32	17	3.6	1.7	1.9
9	8.3	7.8	24	17	163	100	58	31	16	3.3	1.6	1.8
10	7.8	8.3	23	220	199	90	61	30	15	3.3	1.3	1.9
11	7.4	8.3	22	57	163	85	66	30	14	3.0	1.3	1.9
12	7.4	7.8	22	36	141	100	68	30	14	2.9	1.2	1.9
13	6.9	9.6	18	102	152	100	61	32	13	2.9	1.3	1.8
14	6.0	43	16	1,130	121	87	58	37	13	3.0	1.8	1.9
15	6.0	17	17	760	108	83	57	31	12	3.3	2.5	2.1
16	6.0	12	16	290	290	123	55	28	11	3.0	2.3	1.8
17	6.0	11	15	168	634	104	54	27	10	2.9	2.1	1.5
18	6.0	11	20	119	326	92	51	27	9.6	2.8	2.1	1.4
19	6.0	12	17	90	905	83	50	28	9.2	2.5	2.9	1.3
20	6.5	13	15	78	980	81	47	33	8.7	2.2	11	1.4
21	6.5	11	15	83	840	78	45	28	8.7	2.2	13	1.6
22	7.8	10	15	79	574	76	43	28	7.8	2.1	8.3	1.6
23	7.8	10	15	71	570	74	42	28	7.4	2.0	6.0	1.5
24	7.4	10	18	64	439	72	40	27	6.5	2.0	4.8	1.5
25	6.9	10	22	60	343	79	39	26	6.0	2.0	4.5	1.4
26	6.9	9.2	28	55	287	76	39	25	5.7	1.9	6.5	1.3
27	6.9	9.6	34	50	248	71	39	23	5.7	1.8	6.0	1.3
28	6.5	10	33	74	217	72	39	22	5.4	1.7	5.1	1.1
29	6.5	17	28	478	192	78	39	20	5.1	1.7	3.3	1.1
30	6.0	17	23	238	------	83	40	19	5.4	1.8	2.9	1.2
31	6.0	------	20	175	------	83	------	18	------	1.9	2.7	------
TOTAL	235.9	327.1	896	4,625	9,591	3,074	1,660	922	354.2	94.3	109.1	51.7
MEAN	7.61	10.9	28.9	149	331	99.2	55.3	29.7	11.8	3.04	3.52	1.72
MAX	17	43	108	1,130	980	178	92	40	22	5.4	13	2.6
MIN	5.7	5.7	13	14	108	71	39	18	5.1	1.7	1.2	1.1
AC-FT	468	649	1,780	9,170	19,020	6,100	3,290	1,830	703	187	216	103

CAL YR 1967 TOTAL 44,000.3 MEAN 121 MAX 2,600 MIN 4.5 AC-FT 87,270
WTR YR 1968 TOTAL 21,940.3 MEAN 59.9 MAX 1,130 MIN 1.1 AC-FT 43,520

11379500 ELDER CREEK NEAR PASKENTA, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	5.7	10	98	243	800	464	234	62	20	6.6	3.3
2	1.6	25	9.4	90	216	480	405	216	59	19	5.7	3.3
3	1.5	17	9.0	105	197	365	345	204	55	18	5.5	3.3
4	1.7	11	8.8	116	187	320	302	185	53	17	5.3	3.2
5	1.9	8.9	8.8	126	497	285	308	186	50	16	5.2	3.2
6	2.1	8.2	8.8	115	597	255	282	224	48	16	5.3	3.3
7	1.8	7.7	9.3	107	314	238	243	273	46	15	5.2	3.3
8	1.6	7.2	17	98	328	222	229	292	45	15	5.1	3.5
9	1.7	7.0	15	87	729	214	231	314	49	14	5.0	3.4
10	1.8	6.8	542	170	502	196	229	318	51	14	4.7	3.4
11	2.1	6.9	115	430	1,500	182	259	302	52	13	4.6	3.2
12	3.9	8.0	51	1,700	865	180	322	285	46	13	4.3	3.2
13	5.3	7.9	48	2,000	560	163	292	259	41	13	4.2	3.2
14	5.7	9.9	134	656	680	157	261	216	38	12	4.2	3.3
15	5.6	21	822	377	1,140	163	234	178	35	12	4.2	3.5
16	4.9	20	138	272	560	182	231	173	31	11	4.0	3.6
17	4.2	15	67	210	380	289	267	178	30	11	3.8	3.7
18	3.7	25	46	273	330	298	299	172	31	10	3.9	3.9
19	3.3	24	37	1,370	290	261	278	151	41	10	4.1	4.4
20	3.3	16	30	2,340	270	295	291	133	47	9.6	4.3	4.7
21	3.3	14	25	1,830	255	495	334	124	39	9.2	4.1	5.0
22	3.2	12	26	884	250	353	393	120	33	9.0	3.8	4.6
23	3.0	11	84	540	380	349	370	119	29	9.0	3.7	4.3
24	2.9	10	195	411	1,160	329	281	113	27	9.0	3.9	4.2
25	2.9	11	471	499	470	320	227	103	26	8.7	3.9	3.8
26	2.8	9.9	306	1,100	310	341	203	96	25	8.6	3.8	3.7
27	2.8	9.4	155	542	450	413	202	90	24	8.3	3.8	3.5
28	2.9	9.1	355	413	1,350	489	233	80	23	8.0	3.6	3.7
29	4.9	9.2	170	339	------	543	264	74	22	7.6	3.7	3.7
30	6.5	10	132	306	------	554	245	71	21	7.5	3.5	3.7
31	6.3	------	106	265	------	538	------	67	------	7.1	3.4	------
TOTAL	100.6	363.8	4,151.1	17,869	15,010	10,269	8,524	5,550	1,179	370.6	136.4	110.1
MEAN	3.25	12.1	134	576	536	331	284	179	39.3	12.0	4.40	3.67
MAX	6.5	25	822	2,340	1,500	800	464	318	62	20	6.6	5.0
MIN	1.4	5.7	8.8	87	187	157	202	67	21	7.1	3.4	3.2
AC-FT	200	722	8,230	35,440	29,770	20,370	16,910	11,010	2,340	735	271	218

CAL YR 1968 TOTAL 25,096.8 MEAN 68.6 MAX 1,130 MIN 1.1 AC-FT 49,780
WTR YR 1969 TOTAL 63,633.6 MEAN 174 MAX 2,340 MIN 1.4 AC-FT 126,200

NOTE.--NO GAGE-HEIGHT RECORD DEC. 28 TO JAN. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	4.0	7.1	62	395	135	64	40	19	12	3.6	2.2
2	3.2	4.0	7.1	57	338	121	61	39	19	11	3.4	2.2
3	3.3	4.0	7.1	51	295	114	58	40	19	9.7	3.1	2.1
4	3.4	4.0	7.2	46	254	676	53	40	19	9.1	3.0	2.0
5	3.5	24	7.1	41	230	358	50	40	19	8.4	3.1	2.0
6	3.4	17	7.2	38	195	242	49	41	19	8.0	3.2	2.2
7	3.3	12	7.2	38	176	327	49	41	19	7.5	3.0	2.2
8	3.4	11	9.8	100	162	409	49	42	19	7.0	2.9	2.2
9	3.8	11	10	168	152	344	49	42	21	6.7	2.7	2.0
10	3.5	10	9.1	160	145	299	49	40	23	6.5	2.5	1.8
11	3.5	9.8	18	133	140	258	49	39	18	6.4	2.3	1.7
12	3.5	9.6	579	200	164	230	49	39	17	6.2	2.2	1.6
13	3.6	9.2	254	550	306	217	51	38	17	5.8	2.1	1.7
14	4.2	8.8	124	1,550	216	222	56	35	22	5.2	2.1	1.9
15	9.5	8.6	92	605	174	207	54	32	20	4.8	2.0	2.1
16	20	8.3	61	2,690	340	192	53	31	18	5.0	2.0	2.1
17	17	8.2	49	910	351	179	52	30	17	5.1	2.0	2.0
18	10	8.1	66	870	253	165	52	30	16	4.7	2.0	2.0
19	6.0	8.0	548	810	207	146	52	29	16	4.4	2.1	2.2
20	4.7	8.0	572	750	182	143	51	30	16	4.2	2.1	2.5
21	4.4	8.0	909	1,700	165	135	51	28	16	4.1	2.1	2.6
22	4.3	7.9	317	1,460	153	127	50	26	16	4.0	2.0	2.2
23	4.2	7.6	553	3,810	144	120	49	25	15	3.9	2.0	2.1
24	4.2	7.6	380	2,780	137	115	48	23	15	3.8	2.1	1.9
25	4.1	7.6	249	1,220	129	108	47	22	15	3.8	2.1	1.7
26	4.1	7.6	176	1,640	123	104	47	22	14	3.6	2.1	1.8
27	4.1	7.4	134	2,220	120	97	46	23	14	3.8	2.1	1.8
28	4.0	7.3	110	1,100	128	91	46	23	16	3.9	2.0	1.9
29	4.0	7.1	93	720	------	81	44	22	20	3.9	1.9	2.0
30	4.0	7.1	80	560	------	77	42	20	13	3.8	2.0	1.9
31	4.0	------	70	470	------	69	------	20	------	3.7	2.3	------
TOTAL	161.6	262.8	5,512.9	27,509	5,774	6,108	1,520	992	527	180.0	74.1	60.6
MEAN	5.21	8.76	178	887	206	197	50.7	32.0	17.6	5.81	2.39	2.02
MAX	20	24	909	3,810	395	676	64	42	23	12	3.6	2.6
MIN	3.2	4.0	7.1	38	120	69	42	20	13	3.6	1.9	1.6
AC-FT	321	521	10,930	54,560	11,450	12,120	3,010	1,970	1,050	357	147	120

CAL YR 1969 TOTAL 64,955.4 MEAN 178 MAX 2,340 MIN 3.2 AC-FT 128,800
WTR YR 1970 TOTAL 48,682.0 MEAN 133 MAX 3,810 MIN 1.6 AC-FT 96,560

NOTE.--NO GAGE-HEIGHT RECORD OCT. 4 TO NOV. 19.

11380500 ELDER CREEK AT GERBER, CALIF.

LOCATION.--Lat 40°03'05", long 122°09'53", in Saucos Grant, Tehama County, on right bank 1.0 mile west of Gerber and 3.5 miles upstream from mouth.

DRAINAGE AREA.--136 sq mi.

PERIOD OF RECORD.--October 1949 to September 1969. Annual maximum, water year 1970.

GAGE.--Crest-stage gage. Datum of gage is 232.14 ft above mean sea level (from Bureau of Reclamation bench mark). Prior to Oct. 1, 1961, water-stage recorder at site about 150 ft upstream at datum 4.32 ft higher and Oct. 1, 1961, to Sept. 30, 1969, at present site and datum.

AVERAGE DISCHARGE.--20 years, 105 cfs (76,070 acre-ft per year); median of yearly mean discharges, 84 cfs (60,900 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (1,200 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Nov. 15, 1965	0330	3,760	9.28	Jan. 30, 1967	1630	*6,150	11.07	Jan. 19, 1969	2400	*6,380	11.32
Jan. 4, 1966	2030	*5,960	10.95					Jan. 26, 1969	0500	2,900	8.96
Feb. 4, 1966	0200	1,700	7.39	Jan. 14, 1968	2130	2,170	7.84	Feb. 6, 1969	0300	4,680	10.27
				Jan. 29, 1968	2230	*2,430	8.16	Feb. 9, 1969	0900	2,200	8.42
Dec. 2, 1966	1500	2,650	8.27	Feb. 17, 1968	0700	1,990	7.79	Feb. 11, 1969	2000	5,210	10.62
Dec. 4, 1966	2300	3,870	9.38	Feb. 19, 1968	2400	2,370	8.11	Feb. 15, 1969	0300	2,680	8.84
Jan. 21, 1967	1100	3,020	8.61					Feb. 24, 1969	0900	5,680	10.91
Jan. 24, 1967	0730	2,090	7.81	Dec. 15, 1968	1500	2,170	8.08	Feb. 28, 1969	0230	2,870	8.99
Jan. 26, 1967	1230	4,050	9.54	Dec. 24, 1968	1200	2,430	8.32				
Jan. 29, 1967	0900	3,890	9.43	Jan. 13, 1969	0100	5,180	10.60	Jan. 23, 1970	-	12,900	14.4

No flow for long periods in each year.

Period of record: Maximum discharge, 14,100 cfs Jan. 5, 1965 (gage height, 14.90 ft); no flow at times in each year.

REMARKS.--Records good except those for period of no gage-height record June 29 to Sept. 30, 1967, and those below 5 cfs, which are poor.

REVISIONS (WATER YEARS).--WSP 1515: 1956(M). WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.30	0	35	68	249	111	252	53	15	1.6	.90	
2	.20	0	33	59	171	104	244	49	15	1.5	.30	
3	.10	0	32	61	227	96	213	49	16	1.2	.10	
4	.10	0	32	2,400	1,000	92	192	49	14	1.1	.20	
5	0	0	30	2,440	405	136	178	49	13	1.2	.50	
6	0	0	30	1,410	276	116	178	48	13	1.2	.20	
7	0	0	30	646	220	114	178	46	13	1.5	0	
8	0	0	29	430	188	111	164	44	15	.90	0	
9	0	0	28	327	164	164	164	43	13	.90	.20	
10	0	0	27	268	147	314	164	43	9.2	.90	.80	
11	0	0	27	224	133	248	150	41	6.8	.90	0	
12	0	0	30	185	127	220	138	37	5.0	.90	0	
13	0	95	29	164	116	216	116	34	4.2	.90	0	
14	0	1,010	25	157	114	228	108	31	3.0	1.1	0	
15	0	1,780	23	147	106	220	98	30	2.8	.90	0	
16	0	288	21	141	98	202	101	26	2.8	.80	0	
17	0	438	21	127	96	171	108	25	2.2	.60	0	
18	0	625	20	116	94	154	108	24	2.4	.60	0	
19	0	252	20	108	171	141	96	22	2.4	.60	0	
20	0	141	15	98	147	130	88	21	1.3	.70	0	
21	0	101	17	94	108	124	78	19	1.1	.60	0	
22	0	80	20	90	104	116	69	19	1.1	.60	0	
23	0	68	17	86	106	108	68	18	1.1	.90	0	
24	0	76	22	84	108	108	66	16	1.1	.60	0	
25	0	64	43	80	138	111	66	17	.90	.40	0	
26	0	53	33	78	240	124	66	17	.90	.40	0	
27	0	51	30	76	138	147	62	17	.90	.30	0	
28	0	45	317	73	121	171	59	15	1.3	.40	0	
29	0	43	288	107	------	202	59	15	6.0	.50	0	
30	0	39	127	260	------	224	59	16	3.0	.60	0	
31	0	------	90	138	------	240	------	17	------	.20	0	------
TOTAL	.70	5,249	1,541	10,742	5,312	4,963	3,690	950	186.50	25.50	3.20	0
MEAN	.023	175	49.7	347	190	160	123	30.6	6.22	.82	.10	0
MAX	.30	1,780	317	2,440	1,000	314	252	53	16	1.6	.90	0
MIN	0	0	15	59	94	92	59	15	.90	.20	0	0
AC-FT	1.4	10,410	3,060	21,310	10,540	9,840	7,320	1,880	370	51	6.3	0

CAL YR 1965 TOTAL 48,505.40 MEAN 133 MAX 3,860 MIN 0 AC-FT 96,210
WTR YR 1966 TOTAL 32,662.90 MEAN 89.5 MAX 2,440 MIN 0 AC-FT 64,790

11380500 ELDER CREEK AT GERBER, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	111	41	888	86	199	202	82	20	4.1	.50
2		0	1,040	41	598	84	182	196	678	19	3.9	.40
3		0	390	39	435	84	182	199	420	17	3.7	.40
4		0	787	39	376	82	178	213	264	16	3.6	.40
5		0	1,750	35	350	78	171	236	216	15	3.4	.30
6		0	430	34	327	76	341	228	206	14	3.3	.30
7		0	256	32	300	74	480	248	185	14	3.1	.30
8		0	182	31	272	73	296	354	164	13	2.8	.30
9		0	144	30	256	73	240	410	141	12	2.6	.30
10		0	188	28	252	76	275	345	127	11	2.4	.20
11		0	150	27	244	104	568	276	118	11	2.3	.20
12		0	130	27	232	96	340	232	108	10	2.1	.20
13		0	138	26	236	106	272	202	108	9.8	2.0	.20
14		0	174	25	213	88	232	188	88	9.2	1.8	.20
15		0	136	24	182	84	210	199	76	8.7	1.7	.20
16		53	114	24	160	509	192	240	69	8.4	1.6	.20
17		.50	98	23	147	381	216	280	66	8.0	1.5	.20
18		.50	90	23	138	292	202	292	61	7.5	1.4	.20
19		294	82	22	127	256	314	264	56	7.2	1.3	.20
20		523	78	199	114	240	336	244	53	6.8	1.2	.20
21		232	69	2,050	108	260	252	236	58	6.5	1.1	.10
22		138	66	691	106	244	298	220	52	6.2	1.0	.10
23		66	62	340	101	240	568	210	43	5.9	.90	.10
24		45	56	1,250	101	228	455	192	35	5.7	.90	.10
25		38	51	562	98	213	410	164	33	5.4	.80	.10
26		39	48	1,580	92	206	381	144	31	5.2	.70	.10
27		48	45	726	88	196	318	130	29	5.0	.70	.10
28		74	44	1,070	86	188	292	114	26	4.8	.60	.10
29		147	44	2,310	------	185	244	101	23	4.6	.60	0
30		69	44	2,100	------	210	216	92	22	4.4	.60	0
31		------	43	1,870	------	264	------	76	------	4.2	.50	------
TOTAL	0	1,767.00	7,040	15,319	6,627	5,376	8,860	6,727	3,638	295.5	58.20	6.20
MEAN	0	58.9	227	494	237	173	295	217	121	9.53	1.88	.21
MAX	0	523	1,750	2,310	888	509	568	410	678	20	4.1	.50
MIN	0	0	43	22	86	73	171	76	22	4.2	.50	0
AC-FT	0	3,500	13,960	30,390	13,140	10,660	17,570	13,340	7,220	586	115	12

CAL YR 1966 TOTAL 34,679.20 MEAN 95.0 MAX 2,440 MIN 0 AC-FT 68,790
WTR YR 1967 TOTAL 55,713.90 MEAN 153 MAX 2,310 MIN 0 AC-FT 110,500

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	5.0	18	141	186	85	25	7.6	.99	0	
2	.05	0	2.8	18	456	169	88	23	7.6	.87	.13	
3	.11	0	13	16	326	152	73	21	7.6	.99	.99	
4	.14	0	40	14	178	141	69	23	7.5	.81	.14	
5	.07	0	140	12	141	134	67	20	7.4	.87	.02	
6	0	0	61	9.8	137	127	62	28	7.5	.81	.01	
7	0	0	60	8.6	137	117	60	49	8.0	.93	0	
8	0	0	46	8.0	127	117	58	58	8.0	.61	0	
9	0	0	25	10	117	104	57	73	5.6	1.3	0	
10	0	0	19	156	141	93	55	80	4.9	.61	.22	
11	0	0	18	76	124	88	57	78	5.2	1.0	0	
12	0	0	16	22	102	88	58	71	4.6	.31	0	
13	0	0	14	21	104	110	57	50	3.6	.03	0	
14	0	0	8.0	878	90	104	54	46	2.9	.03	0	
15	0	9.6	7.4	1,090	73	96	54	40	2.0	.12	0	
16	0	3.8	12	428	263	113	50	35	1.6	.35	0	
17	0	1.1	9.2	206	1,040	120	49	27	1.4	.06	0	
18	0	1.1	10	127	440	104	47	25	1.1	.02	0	
19	0	.94	16	90	761	93	46	22	1.3	.39	0	
20	0	.20	21	73	1,400	88	44	22	1.2	.61	0	
21	0	.71	19	67	926	85	42	20	1.3	.56	.08	
22	0	1.1	18	69	660	82	41	15	1.3	.01	0	
23	0	.67	18	64	660	82	38	14	.93	.05	0	
24	0	.07	17	58	543	78	36	12	.87	0	0	
25	0	0	18	55	404	78	32	12	.93	0	0	
26	0	0	20	52	320	80	27	12	.76	0	0	
27	0	0	25	47	274	75	27	11	1.0	.07	0	
28	0	0	30	46	235	73	27	9.0	.81	0	0	
29	0	.09	29	598	210	75	28	8.4	.87	0	0	
30	0	3.4	25	540	------	80	27	7.4	1.0	0	0	
31	0	------	21	191	------	82	------	7.4	------	0	0	------
TOTAL	.37	22.78	783.4	5,068.4	10,530	3,214	1,515	944.2	106.37	12.40	1.59	0
MEAN	.012	.76	25.3	163	363	104	50.5	30.5	3.55	.40	.051	0
MAX	.14	9.6	140	1,090	1,400	186	88	80	8.0	1.3	.99	0
MIN	0	0	2.8	8.0	73	73	27	7.4	.76	0	0	0
AC-FT	.7	45	1,550	10,050	20,890	6,370	3,010	1,870	211	25	3.2	0

CAL YR 1967 TOTAL 47,713.45 MEAN 131 MAX 2,310 MIN 0 AC-FT 94,640
WTR YR 1968 TOTAL 22,198.51 MEAN 60.7 MAX 1,400 MIN 0 AC-FT 44,030

11380500 ELDER CREEK AT GERBER, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	0	97	263	1,220	485	231	65	8.6	.71	0
2		0	0	97	229	588	438	213	62	8.6	2.1	0
3		0	0	102	209	485	384	204	55	8.0	.18	0
4		0	0	125	198	390	315	186	55	7.5	0	0
5		0	0	158	536	350	310	172	52	8.0	0	0
6		0	0	155	1,600	326	285	195	45	7.5	0	0
7		0	0	137	390	299	258	249	45	8.0	.34	.16
8		0	.50	110	272	276	231	280	41	7.0	.71	0
9		0	3.0	92	1,090	258	222	315	43	7.5	.20	0
10		0	239	77	658	241	222	340	62	7.0	.38	0
11		0	177	299	2,330	237	226	340	79	7.0	.12	0
12		0	75	2,660	1,520	213	295	325	41	6.5	.17	0
13		0	53	3,310	652	198	295	305	30	6.5	.48	0
14		0	128	888	841	188	267	267	28	5.6	.11	0
15		0	581	440	1,600	184	237	213	24	5.6	.15	0
16		0	221	308	652	194	222	186	23	4.6	.19	0
17		0	107	241	480	258	236	186	22	4.1	.33	0
18		0	87	241	490	304	276	186	20	3.5	.05	0
19		7.1	80	1,440	405	276	267	168	28	3.8	0	0
20		6.1	62	3,600	345	268	276	142	38	3.8	.04	0
21		2.0	38	2,770	299	686	305	129	36	3.0	.68	0
22		.95	31	1,150	268	344	384	121	30	2.1	.40	0
23		.55	51	613	425	305	414	116	24	1.6	0	0
24		.48	1,030	455	1,620	280	315	112	23	1.0	0	0
25		.24	745	435	529	267	249	104	19	1.0	0	0
26		.04	308	1,310	380	276	208	97	17	1.3	0	0
27		0	161	626	485	330	190	94	13	.71	0	0
28		0	619	460	1,740	438	204	83	11	.80	0	0
29		0	250	365	------	568	249	76	11	.62	0	0
30		0	146	350	------	457	236	72	9.9	1.1	0	0
31		------	110	294	------	438	------	65	------	.80	0	------
TOTAL	0	17.46	5,302.50	23,405	20,506	11,142	8,501	5,772	1,051.9	142.73	7.34	.16
MEAN	0	.58	171	755	732	359	283	186	35.1	4.60	.24	.005
MAX	0	7.1	1,030	3,600	2,330	1,220	485	340	79	8.6	2.1	.16
MIN	0	0	0	77	198	184	190	65	9.9	.62	0	0
AC-FT	0	35	10,520	46,420	40,670	22,100	16,860	11,450	2,090	283	15	.3

CAL YR 1968 TOTAL 26,711.92 MEAN 73.0 MAX 1,400 MIN 0 AC-FT 52,980
WTR YR 1969 TOTAL 75,848.09 MEAN 208 MAX 3,600 MIN 0 AC-FT 150,400

11381500 MILL CREEK NEAR LOS MOLINOS, CALIF.

LOCATION.--Lat 40°03'17", long 122°01'23", in NE¼NW¼ sec.6, T.25 N., R.1 W., Tehama County, on right bank 4.5 miles northeast of Los Molinos and 5.5 miles upstream from mouth.

DRAINAGE AREA.--131 sq mi.

PERIOD OF RECORD.--September 1909 to August 1913 (fragmentary), October 1928 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 385 ft, revised (from topographic map). Prior to September 1913, nonrecording gage at site 0.3 mile downstream at different datum.

AVERAGE DISCHARGE.--42 years (1928-70), 299 cfs (216,600 acre-ft per year); median of yearly mean discharges, 265 cfs (192,000 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (2,400 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Jan. 4, 1966	2015	*2,760	6.62	Jan. 14, 1968	1830	*4,000	7.94	Dec. 12, 1969	1700	6,080	9.55
				Feb. 20, 1968	0130	2,470	6.42	Dec. 19, 1969	1230	4,830	8.64
Nov. 20, 1966	0115	3,240	7.07					Dec. 21, 1969	1330	8,230	10.90
Dec. 2, 1966	2000	*6,780	9.49	Dec. 10, 1968	0945	4,980	8.36	Jan. 14, 1970	1000	7,920	10.72
Dec. 5, 1966	0100	2,740	6.60	Dec. 15, 1968	1300	2,840	6.73	Jan. 16, 1970	1200	4,580	8.43
Jan. 21, 1967	2215	3,030	6.89	Dec. 24, 1968	1445	2,640	6.54	Jan. 21, 1970	1830	4,350	8.24
Jan. 29, 1967	0515	4,550	8.05	Jan. 13, 1969	0615	6,520	9.85	Jan. 23, 1970	2330	*17,100	15.63
Jan. 31, 1967	0645	5,230	8.52	Jan. 21, 1969	1000	*12,400	13.14	Jan. 27, 1970	0630	3,390	7.46
				Jan. 26, 1969	0315	4,160	8.08	Mar. 1, 1970	0630	5,000	8.79
Jan. 10, 1968	0400	3,650	7.62	Feb. 15, 1969	1045	2,960	6.96				

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Sept.30, 1966	86	1969	Oct. 1-5, 8-10, 1968	95
1967	(a)	86	1970	Sept.25-30, 1970	107
1968	Sept.18, 24, 25, 29, 30, 1968	95			

a Oct. 1, 10, 11, 29-31, Nov. 1-5, 1966.

Period of record: Maximum discharge, 36,400 cfs (revised) Dec. 11, 1937 (gage height, 23.4 ft, from floodmarks), from rating curve extended above 14,000 cfs on basis of step-backwater computation and slope-area measurement of peak flow; minimum, 49 cfs Dec. 13, 1932.

REVISIONS.--The maximum cischarge for the water year 1938 has been revised to 36,400 cfs Dec. 11, 1937 (gage height, 23.4 ft, from floodmarks), superseding figure published in WSP 861, 1315-A, 1735, and 1931.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. No storage or large diversion above station. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

REVISIONS (WATER YEARS).--WSP 1315-A: 1929(M). WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	104	152	192	370	210	551	355	235	136	110	97
2	110	104	149	178	282	200	579	372	220	138	109	96
3	109	104	147	169	296	190	547	393	207	136	106	96
4	107	104	146	1,140	718	180	501	417	200	133	105	91
5	108	104	144	990	409	185	484	434	198	130	104	91
6	112	104	144	512	333	190	501	427	196	128	102	91
7	109	107	141	382	285	200	519	409	216	127	101	89
8	109	153	141	364	241	215	508	416	201	126	101	89
9	109	128	138	327	218	249	494	458	195	128	101	91
10	109	115	138	276	200	325	707	447	201	129	100	91
11	109	114	138	231	190	310	627	449	198	127	99	90
12	109	137	146	218	180	302	543	391	192	126	99	91
13	107	161	140	203	170	428	462	381	189	125	99	91
14	108	295	135	196	166	406	424	388	192	125	99	103
15	113	339	129	192	163	403	420	361	192	123	94	101
16	112	192	128	188	162	350	452	349	189	120	94	99
17	109	405	124	184	161	302	508	342	186	120	94	96
18	109	875	124	180	160	282	501	336	180	120	94	100
19	110	448	124	177	225	327	417	338	178	118	94	108
20	109	285	122	172	225	276	368	345	172	116	94	99
21	107	207	123	169	200	258	339	340	166	115	94	96
22	107	177	123	167	200	243	334	325	161	115	93	94
23	107	168	120	166	280	231	341	311	158	114	91	94
24	105	411	156	164	290	237	361	304	155	114	91	91
25	104	285	198	163	275	249	400	307	150	113	91	91
26	104	212	153	161	260	270	439	310	147	112	93	91
27	104	188	144	159	230	308	374	302	144	109	96	91
28	104	171	651	157	220	358	354	290	141	107	93	90
29	104	162	462	279	------	406	347	278	141	107	94	87
30	104	157	321	583	------	459	348	271	141	107	95	86
31	104	------	240	371	------	498	------	254	------	116	103	------
TOTAL	3,343	6,516	5,441	9,010	7,109	9,047	13,750	11,100	5,441	3,760	3,033	2,811
MEAN	108	217	176	291	254	292	458	358	181	121	97.8	93.7
MAX	113	875	651	1,140	718	498	707	458	235	138	110	108
MIN	104	104	120	157	160	180	334	254	141	107	91	86
AC-FT	6,630	12,920	10,790	17,870	14,100	17,940	27,270	22,020	10,790	7,460	6,020	5,580

CAL YR 1965 TOTAL 120,331 MEAN 330 MAX 4,870 MIN 104 AC-FT 238,700
WTR YR 1966 TOTAL 80,361 MEAN 220 MAX 1,140 MIN 86 AC-FT 159,400

11381500 MILL CREEK NEAR LOS MOLINOS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	86	736	145	1,250	219	369	450	850	526	167	128
2	87	86	2,400	142	839	216	336	440	825	512	167	127
3	88	86	1,390	140	621	213	354	440	805	493	168	127
4	88	86	1,100	141	519	208	330	450	790	448	167	127
5	88	86	1,610	141	446	201	375	460	770	411	161	127
6	88	114	792	136	400	198	1,030	480	750	383	159	126
7	88	127	513	136	373	200	698	570	740	378	158	125
8	88	101	392	138	349	202	497	770	720	360	158	123
9	88	96	318	139	330	208	440	930	720	335	153	122
10	86	94	301	141	323	221	450	1,100	710	319	151	122
11	86	97	288	141	316	923	538	840	705	312	150	122
12	88	149	260	141	314	769	443	630	705	312	145	122
13	88	163	283	141	330	626	401	565	700	302	142	122
14	88	137	332	141	328	435	405	580	700	293	141	121
15	88	191	277	141	306	398	382	680	690	283	141	118
16	90	636	247	141	291	1,810	356	850	670	278	139	117
17	91	212	227	141	277	1,250	664	940	650	273	136	117
18	91	151	211	138	268	847	628	990	640	261	136	125
19	91	475	198	138	259	673	599	1,020	630	249	136	123
20	92	1,740	188	277	246	655	547	1,040	615	236	136	120
21	94	639	185	2,210	237	584	459	1,060	595	229	136	118
22	94	524	175	1,240	231	551	429	1,090	580	222	136	117
23	91	278	169	587	228	641	535	1,090	570	212	133	117
24	89	208	166	745	226	574	592	1,060	560	205	133	117
25	88	177	163	512	274	491	584	1,020	550	198	133	120
26	88	161	160	513	244	433	549	1,000	535	190	138	122
27	88	152	155	679	227	395	800	970	520	183	136	119
28	88	429	153	1,130	222	385	590	940	505	182	133	117
29	86	1,150	152	3,090	------	371	500	905	495	180	130	116
30	86	526	149	2,450	------	351	465	895	535	176	128	116
31	86	------	145	2,830	------	363	------	865	------	173	127	------
TOTAL	2,746	9,157	13,835	18,925	10,274	15,611	15,345	25,120	19,830	9,114	4,474	3,640
MEAN	88.6	305	446	610	367	504	512	810	661	294	144	121
MAX	94	1,740	2,400	3,090	1,250	1,810	1,030	1,100	850	526	168	128
MIN	86	86	145	136	222	198	330	440	495	173	127	116
AC-FT	5,450	18,160	27,440	37,540	20,380	30,960	30,440	49,830	39,330	18,080	8,870	7,220

CAL YR 1966 TOTAL 90,799 MEAN 249 MAX 2,400 MIN 86 AC-FT 180,100
WTR YR 1967 TOTAL 148,071 MEAN 406 MAX 3,090 MIN 86 AC-FT 293,700

NOTE.--NO GAGE-HEIGHT RECORD APR. 27 TO JUNE 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	117	193	142	331	457	400	346	237	163	110	100
2	166	115	147	139	861	413	363	343	238	161	111	100
3	256	114	480	135	664	391	332	354	240	159	109	101
4	153	114	283	130	489	380	320	370	243	158	107	100
5	143	114	395	130	434	380	314	362	253	157	105	100
6	142	114	207	130	436	363	300	327	282	154	103	100
7	136	114	379	128	389	350	293	310	272	150	101	97
8	134	115	208	128	349	347	290	304	260	148	100	96
9	130	124	165	189	342	322	296	290	245	145	100	97
10	130	122	152	1,580	348	300	320	283	239	141	100	97
11	127	120	146	342	323	284	352	279	237	139	100	97
12	125	120	141	227	308	388	373	289	226	137	99	97
13	123	120	133	238	305	510	342	302	223	134	98	97
14	122	152	121	1,540	280	423	324	318	221	132	101	103
15	120	142	123	2,440	259	358	329	280	220	131	108	103
16	120	128	133	928	257	829	315	260	213	130	105	99
17	120	125	131	530	524	635	305	247	210	126	114	97
18	118	130	135	386	513	434	282	242	207	121	107	95
19	117	442	138	317	736	362	273	247	203	117	182	96
20	117	154	133	276	1,820	326	267	279	200	115	259	97
21	117	136	131	254	1,760	308	261	269	196	113	446	97
22	128	129	130	238	1,370	298	251	301	191	112	167	97
23	123	128	130	230	1,570	293	247	338	187	110	144	97
24	120	126	132	226	1,280	290	245	330	180	109	131	95
25	120	124	137	224	899	313	251	303	174	109	120	95
26	120	123	145	218	713	340	262	289	172	108	117	96
27	117	122	171	213	615	313	281	277	169	107	115	97
28	118	126	174	203	547	312	293	263	168	108	112	97
29	119	142	163	843	493	338	307	254	168	109	109	95
30	117	203	154	743	------	372	333	246	167	110	107	95
31	117	------	147	396	------	388	------	239	------	110	103	------
TOTAL	4,034	4,155	5,557	13,843	19,215	11,817	9,121	9,141	6,441	4,023	3,990	2,930
MEAN	130	139	179	447	663	381	304	295	215	130	129	97.7
MAX	256	442	480	2,440	1,820	829	400	370	282	163	446	103
MIN	117	114	121	128	257	284	245	239	167	107	98	95
AC-FT	8,000	8,240	11,020	27,460	38,110	23,440	18,090	18,130	12,780	7,980	7,910	5,810

CAL YR 1967 TOTAL 136,079 MEAN 373 MAX 3,090 MIN 114 AC-FT 269,900
WTR YR 1968 TOTAL 94,267 MEAN 258 MAX 2,440 MIN 95 AC-FT 187,000

NOTE.--NO GAGE-HEIGHT RECORD MAY 9 TO AUG. 6.

11381500 MILL CREEK NEAR LOS MOLINOS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95	120	175	224	487	708	696	675	692	296	164	124
2	95	152	164	221	441	532	633	667	664	296	161	123
3	95	275	154	224	399	485	543	663	675	291	159	123
4	95	216	152	242	374	419	472	599	700	286	155	123
5	95	162	150	260	627	380	938	627	702	283	152	123
6	97	145	147	264	847	356	686	731	661	273	152	123
7	97	136	144	257	523	331	550	897	594	271	150	121
8	95	130	150	245	467	309	496	950	548	265	148	122
9	95	150	162	227	919	294	484	1,070	509	265	147	121
10	95	156	2,270	212	683	279	456	1,130	481	263	146	121
11	99	142	856	302	1,230	263	471	1,150	514	259	144	120
12	222	494	428	2,010	1,340	254	524	1,170	512	252	142	121
13	277	227	348	4,400	777	245	514	1,070	523	246	140	120
14	243	194	928	1,310	714	234	498	966	504	242	139	120
15	159	257	1,140	639	1,530	231	470	799	488	240	138	119
16	137	215	600	438	810	234	467	784	491	234	137	119
17	130	180	340	346	603	252	493	818	470	228	137	119
18	124	424	298	357	543	267	615	878	453	221	136	119
19	120	326	264	2,240	493	277	595	827	450	217	135	122
20	117	233	233	4,570	504	284	615	746	425	213	135	121
21	115	200	212	6,880	481	324	675	724	457	208	133	122
22	112	180	203	2,360	432	298	753	752	410	203	133	121
23	112	180	460	1,300	668	311	789	799	392	202	130	121
24	110	215	1,730	914	540	320	651	817	376	200	130	120
25	107	215	1,220	1,620	490	324	551	763	359	194	130	121
26	107	186	548	2,910	416	338	510	767	334	189	130	119
27	107	172	354	1,530	396	372	498	683	327	185	129	119
28	107	162	354	1,030	1,050	432	507	647	311	179	128	119
29	118	154	312	745	------	493	615	633	301	174	128	119
30	166	183	260	615	------	525	687	689	294	171	127	117
31	128	------	236	511	------	644	------	717	------	167	125	------
TOTAL	3,871	6,181	14,992	39,403	18,784	11,015	17,452	25,208	14,617	7,213	4,340	3,622
MEAN	125	206	484	1,271	671	355	582	813	487	233	140	121
MAX	277	494	2,270	6,880	1,530	708	938	1,170	702	296	164	124
MIN	95	120	144	212	374	231	456	599	294	167	125	117
AC-FT	7,680	12,260	29,740	78,160	37,260	21,850	34,620	50,000	28,990	14,310	8,610	7,180

CAL YR 1968 TOTAL 105,565 MEAN 288 MAX 2,440 MIN 95 AC-FT 209,400
WTR YR 1969 TOTAL 166,698 MEAN 457 MAX 6,880 MIN 95 AC-FT 330,600

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	117	117	121	259	605	2,410	280	234	402	259	131	113
2	117	117	121	237	520	940	280	248	420	256	130	113
3	117	117	121	222	468	671	276	280	444	248	128	113
4	117	118	121	212	442	655	273	325	463	242	128	114
5	117	745	119	199	422	579	276	350	455	238	126	118
6	117	234	119	190	390	483	287	357	434	231	125	117
7	117	202	119	186	367	535	290	350	427	220	124	116
8	123	209	127	192	348	1,240	284	354	399	214	123	115
9	128	177	130	1,060	332	784	284	392	371	204	123	113
10	120	156	135	973	320	794	290	388	385	195	122	113
11	117	147	253	615	307	595	294	332	329	189	120	111
12	117	146	3,020	667	445	551	284	314	296	183	119	111
13	117	141	1,440	2,100	719	507	287	294	298	177	119	112
14	118	136	538	5,200	550	499	287	287	343	174	119	113
15	141	133	402	1,940	418	491	273	309	308	171	119	112
16	423	133	307	3,090	657	452	262	364	294	165	117	113
17	288	124	262	2,430	980	434	259	441	294	162	117	111
18	157	122	240	1,580	563	399	248	479	301	156	117	109
19	137	125	2,310	1,230	455	378	259	452	326	153	117	110
20	130	126	2,180	1,270	416	360	245	424	350	150	117	111
21	130	125	4,140	3,340	385	346	238	399	368	153	117	111
22	128	125	1,650	3,730	357	340	234	416	374	150	116	111
23	125	125	1,640	8,840	336	332	228	444	360	145	115	111
24	124	125	1,510	6,520	315	332	228	438	350	142	115	109
25	123	123	1,010	2,530	304	332	224	444	329	140	113	107
26	121	123	699	1,700	301	329	242	479	312	138	113	107
27	121	123	512	2,420	294	318	242	511	326	138	113	107
28	121	121	420	1,440	357	312	231	463	364	136	113	107
29	119	121	355	1,050	------	304	224	430	368	134	113	107
30	119	121	313	840	------	298	234	413	287	133	113	107
31	119	------	280	699	------	290	------	399	------	132	113	------
TOTAL	4,285	4,757	24,714	56,961	12,373	17,290	7,843	11,810	10,777	5,528	3,695	3,342
MEAN	138	159	797	1,837	442	558	261	381	359	178	119	111
MAX	423	745	4,140	8,840	980	2,410	294	511	463	259	131	118
MIN	117	117	119	186	294	290	224	234	287	132	113	107
AC-FT	8,500	9,440	49,020	113,000	24,540	34,290	15,560	23,430	21,380	10,960	7,330	6,630

CAL YR 1969 TOTAL 175,410 MEAN 481 MAX 6,880 MIN 117 AC-FT 347,900
WTR YR 1970 TOTAL 163,375 MEAN 448 MAX 8,840 MIN 107 AC-FT 324,100

11381990 THOMES CREEK TRIBUTARY AT PASKENTA, CALIF.

LOCATION.--Lat 39°52'15", long 122°33'22", in NW¼NE¼ sec.8, T.23 N., R.6 W., Tehama County, on left bank at culvert on county road, 1.0 mile southwest of Paskenta.

DRAINAGE AREA.--0.65 sq mi (revised).

PERIOD OF RECORD.--Annual maximums, water years 1961-67. October 1967 to September 1970.

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 825 ft (from topographic map). Sept. 28, 1960, to Aug. 7, 1967, crest-stage gage at present site and datum.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 4, 1966	41	4.94	-	-
1967	Jan. 29, 1967	66	6.08	-	-
1968	Jan. 29, 1968	52	5.44	Long periods	0
1969	Feb. 11, 1969	104	7.78	do.	0
1970	Jan. 23, 1970	83	6.80	do.	0

Period of record: Maximum discharge, 107 cfs Jan. 5, 1965 (gage height, 7.99 ft), from rating curve extended above 43 cfs on basis of computation of flow through culvert; no flow for several months in each year.

REMARKS.--Records fair. No storage or diversion above station. Rainfall data are available in files of the district office.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	OEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	0	0	1.8	.05	.02					
2		0	0	0	2.8	.02	0					
3		0	.05	0	.50	.01	0					
4		0	.30	0	.28	.02	0					
5		0	.05	0	.16	.01	0					
6		0	0	0	.10	.01	0					
7		0	0	0	.05	.02	0					
8		0	0	0	.02	.05	0					
9		0	0	0	.02	0	0					
10		0	0	.20	.01	0	0					
11		0	0	0	0	0	0					
12		0	0	0	0	.10	0					
13		0	0	5.0	.13	.02	0					
14		.01	0	8.0	.01	0	0					
15		0	0	2.0	.02	0	0					
16		0	0	.06	6.0	.50	0					
17		0	0	.02	8.1	.10	0					
18		0	.05	.01	.55	0	0					
19		0	0	.01	13	0	0					
20		0	0	.01	1.7	0	0					
21		0	0	0	3.0	0	0					
22		0	0	0	1.6	0	0					
23		0	0	0	.82	0	0					
24		0	0	0	.40	0	0					
25		0	0	0	.24	0	0					
26		0	0	0	.13	0	0					
27		0	0	0	.07	0	0					
28		0	0	0	.05	0	0					
29		0	0	15	.05	0	0					
30		0	0	1.4	------	0	0					
31		------	0	.45	------	0	------		------			------
TOTAL	0	.01	.45	32.16	41.61	.91	.02	0	0	0	0	0
MEAN	0	.0003	.015	1.04	1.43	.029	.0007	0	0	0	0	0
MAX	0	.01	.30	15	13	.50	.02	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	.02	.9	64	83	1.8	.04	0	0	0	0	0

WTR YR 1968 TOTAL 75.16 MEAN .21 MAX 15 MIN 0 AC-FT 149

11381990 THOMES CREEK TRIBUTARY AT PASKENTA, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	.10	.95	1.9	.16					
2			0	.06	.76	3.2	.29					
3			0	.04	.70	1.5	.20					
4			0	.03	.82	.95	.28					
5			0	.02	12	.88	.40					
6			0	.02	5.7	.76	.40					
7			0	.02	1.1	.76	.16					
8			0	.01	1.4	.70	.07					
9			0	.01	6.7	.76	.07					
10			.61	.01	1.8	.65	.04					
11			0	9.4	21	.60	.04					
12			0	18	3.6	.60	.03					
13			.39	11	1.9	.45	.02					
14			.24	.75	12	.40	.03					
15			3.9	.45	6.9	.40	.02					
16			.07	.36	1.9	.40	0					
17			0	.28	1.7	1.0	0					
18			0	.20	2.0	.55	0					
19			0	1.0	1.4	.50	0					
20			0	7.4	.88	1.2	0					
21			0	10	.76	5.7	0					
22			0	1.0	1.4	.65	0					
23			1.3	.70	3.4	.40	.01					
24			18	.65	12	.28	0					
25			12	7.1	.76	.28	0					
26			.70	3.7	.60	.24	0					
27			.76	.95	8.7	.24	0					
28			4.8	.95	8.9	.24	0					
29			.40	1.2	------	.20	0					
30			.20	1.8	------	.16	0					
31		------	.11	1.0	------	.16	------		------			------
TOTAL	0	0	43.48	78.21	121.73	26.71	2.22	0	0	0	0	0
MEAN	0	0	1.40	2.52	4.35	.86	.074	0	0	0	0	0
MAX	0	0	18	18	21	5.7	.40	0	0	0	0	0
MIN	0	0	0	.01	.60	.16	0	0	0	0	0	0
AC-FT	0	0	86	155	241	53	4.4	0	0	0	0	0

CAL YR 1968 TOTAL 118.18 MEAN .32 MAX 18 MIN 0 AC-FT 234
WTR YR 1969 TOTAL 272.35 MEAN .75 MAX 21 MIN 0 AC-FT 540

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	0	.55	.01						
2			0	0	.40	0						
3			0	0	.36	0						
4			0	0	.32	12						
5			0	0	.24	1.2						
6			0	0	.24	.65						
7			0	0	.20	1.9						
8			0	2.9	.10	.60						
9			0	19	.07	3.7						
10			0	.82	.06	3.2						
11			0	.55	.13	2.1						
12			.26	.88	.45	1.6						
13			.04	6.6	6.7	1.5						
14			.01	11	.28	1.2						
15			.01	9.4	.07	1.2						
16			0	12	3.8	1.1						
17			0	2.2	.40	.70						
18			.01	.95	.07	.32						
19			1.9	4.0	.04	.05						
20			3.7	7.0	.04	.05						
21			3.0	9.9	.03	.04						
22			.28	2.5	.02	.03						
23			6.6	24	.02	.01						
24			1.2	4.8	.02	0						
25			.50	1.6	.01	0						
26			.20	12	.01	0						
27			.05	4.8	.01	0						
28			.02	1.3	.02	0						
29			.01	.95	------	0						
30			0	.76	------	0						
31		------	0	.65	------	0	------		------			------
TOTAL	0	0	17.79	140.56	14.66	33.16	0	0	0	0	0	0
MEAN	0	0	.57	4.53	.52	1.07	0	0	0	0	0	0
MAX	0	0	6.6	24	6.7	12	0	0	0	0	0	0
MIN	0	0	0	0	.01	0	0	0	0	0	0	0
AC-FT	0	0	35	279	29	66	0	0	0	0	0	0

CAL YR 1969 TOTAL 246.66 MEAN .68 MAX 21 MIN 0 AC-FT 489
WTR YR 1970 TOTAL 206.17 MEAN .56 MAX 24 MIN 0 AC-FT 409

11382000 THOMES CREEK AT PASKENTA, CALIF.

LOCATION.--Lat 39°52'57", long 122°33'03", in SW¼NW¼ sec.4, T.23 N., R.6 W., Tehama County, on left bank 0.2 mile upstream from Digger Creek and 0.3 mile upstream from highway bridge at Paskenta.

DRAINAGE AREA.--194 sq mi.

PERIOD OF RECORD.--October 1920 to September 1970. Monthly discharge only for some periods, published in WSP 1315-A. Prior to 1943, published as Thomas Creek at Paskenta.

GAGE.--Water-stage recorder. Datum of gage is 731.1 ft above mean sea level. See WSP 1931 for history of changes prior to Oct. 1, 1959.

AVERAGE DISCHARGE.--50 years, 282 cfs (204,300 acre-ft per year); median of yearly mean discharges, 240 cfs (174,000 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (1,800 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Nov. 15, 1965	0200	2,820	7.17	Feb. 19, 1968	2200	*8,740	9.64	May 10, 1969	0030	3,640	7.62
Jan. 4, 1966	1900	*4,180	7.89	Feb. 23, 1968	0900	3,880	7.60				
								Dec. 12, 1969	2100	4,540	8.07
Nov. 20, 1966	0500	1,980	6.62	Dec. 10, 1968	1400	3,960	7.78	Dec. 19, 1969	1800	3,820	7.71
Dec. 2, 1966	1600	2,390	6.92	Jan. 13, 1969	1100	5,300	8.40	Dec. 21, 1969	1030	7,790	9.19
Dec. 4, 1966	2400	5,580	8.51	Jan. 20, 1969	0230	*9,300	9.80	Dec. 23, 1969	1030	2,500	6.66
Jan. 21, 1967	0900	5,900	8.64	Jan. 26, 1969	0800	4,120	7.53	Jan. 14, 1970	1000	7,820	9.06
Jan. 26, 1967	0900	2,010	6.64	Feb. 11, 1969	1600	2,500	7.00	Jan. 16, 1970	0730	12,600	10.60
Jan. 29, 1967	0700	*8,480	9.56	Feb. 24, 1969	0530	2,300	6.70	Jan. 19, 1970	1600	3,660	7.10
May 9, 1967	0100	2,000	6.63	Mar. 29, 1969	0030	3,800	7.70	Jan. 21, 1970	2400	8,180	9.20
				Apr. 12, 1969	0300	2,680	7.15	Jan. 23, 1970	2100	*18,000	12.00
Jan. 14, 1968	2100	7,700	9.30	Apr. 22, 1969	2300	4,200	7.90	Jan. 27, 1970	0130	11,500	10.30
Feb. 2, 1968	2400	1,810	5.83	Apr. 29, 1969	0330	3,060	7.34				

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Aug. 27, 1966	2.0	1969	Oct. 1, 2, 1968	3.8
1967	Oct. 10-14, 1966	3.3	1970	Sept.30, 1970	2.2
1968	Sept.30, 1968	3.5			

Period of record: Maximum discharge, 37,800 cfs Dec. 22, 1964 (gage height, 15.32 ft, in gage well; 16.4 ft, from floodmarks), from rating curve extended above 14,000 cfs on basis of slope-area measurement of peak flow; no flow at times in many years.

REMARKS.--Records fair. No storage or large diversion above station. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

REVISIONS (WATER YEARS).--WSP 1345: 1923, 1924-28(M), 1938, 1940(M). WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	7.0	86	86	345	260	1,410	360	86	30	9.0	3.3
2	7.5	8.2	83	77	300	250	1,320	372	83	28	9.0	3.7
3	7.5	9.0	89	97	500	218	1,180	394	86	25	8.2	3.7
4	7.0	9.8	110	2,000	800	227	1,140	484	77	24	7.5	3.3
5	7.0	11	130	2,480	604	280	1,120	491	76	22	7.5	3.3
6	7.5	12	214	2,840	491	285	1,130	394	75	20	7.0	2.8
7	7.5	23	192	1,400	382	388	1,140	345	79	20	6.6	3.7
8	7.5	97	171	870	335	434	1,070	340	86	20	7.0	4.2
9	7.5	39	137	670	290	710	1,000	345	82	19	6.6	4.2
10	7.5	25	117	548	260	1,090	1,180	355	75	20	6.6	4.2
11	8.2	15	110	458	218	790	1,090	355	70	22	6.1	4.2
12	7.5	37	114	416	201	680	920	310	66	20	6.1	4.7
13	7.0	578	104	394	175	860	720	295	62	23	6.1	4.7
14	7.5	1,230	89	399	160	980	650	280	60	23	6.1	5.2
15	7.5	1,050	77	422	152	890	660	246	57	20	5.6	6.1
16	8.2	237	69	452	138	730	860	237	54	20	5.6	6.6
17	8.2	382	64	422	138	604	1,050	209	52	18	4.7	6.1
18	8.2	512	64	399	163	564	820	201	49	16	4.7	7.0
19	9.0	325	60	372	265	548	612	205	47	16	4.2	7.5
20	9.0	223	55	340	250	505	526	223	44	15	4.2	7.5
21	8.2	184	55	305	237	505	484	227	42	14	3.3	7.5
22	8.2	148	53	285	241	512	470	209	41	14	2.8	5.6
23	7.5	134	44	265	270	548	477	160	41	12	2.8	4.7
24	7.5	180	72	237	295	640	512	148	41	11	2.5	4.7
25	7.5	160	107	218	285	760	564	152	37	10	2.5	4.7
26	7.5	130	72	196	285	910	556	160	33	9.8	2.2	4.2
27	7.5	117	62	184	255	1,070	470	160	32	10	2.0	4.2
28	8.2	107	340	163	260	1,190	410	160	28	9.8	2.2	4.2
29	8.2	100	232	223	------	1,280	382	137	30	9.0	2.2	3.7
30	7.0	91	148	290	------	1,310	360	117	30	9.8	3.7	4.2
31	6.6	------	120	209	------	1,350	------	97	------	9.8	4.2	------
TOTAL	238.2	6,181.0	3,440	17,717	8,295	21,368	24,283	8,168	1,721	540.2	158.8	143.7
MEAN	7.68	206	111	572	296	689	809	263	57.4	17.4	5.12	4.79
MAX	9.0	1,230	340	2,840	800	1,350	1,410	491	86	30	9.0	7.5
MIN	6.6	7.0	44	77	138	218	360	97	28	9.0	2.0	2.8
AC-FT	472	12,260	6,820	35,140	16,450	42,380	48,170	16,200	3,410	1,070	315	285

CAL YR 1965 TOTAL 121,181.2 MEAN 332 MAX 3,560 MIN 6.6 AC-FT 240,400
WTR YR 1966 TOTAL 92,253.9 MEAN 253 MAX 2,840 MIN 2.0 AC-FT 183,000

11382000 THOMES CREEK AT PASKENTA, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	4.2	1,200	178	1,400	232	322	340	428	116	20	11
2	4.7	4.7	1,400	170	1,060	230	307	364	1,160	106	20	10
3	4.7	4.2	900	158	928	230	322	422	556	100	20	10
4	4.2	4.2	1,820	150	904	222	316	540	452	93	20	10
5	4.2	4.7	2,820	145	928	212	316	610	564	86	20	10
6	4.7	12	706	130	880	208	352	630	650	82	19	10
7	4.2	24	512	122	880	202	410	1,040	540	78	20	9.4
8	3.7	14	465	108	840	202	360	1,620	488	73	20	9.4
9	3.7	11	465	106	780	210	368	1,490	482	70	20	9.4
10	3.3	9.8	676	102	820	240	410	1,130	434	66	19	8.8
11	3.3	10	640	101	730	252	392	850	434	62	19	8.3
12	3.3	44	832	107	790	250	360	770	428	59	18	7.8
13	3.3	152	984	114	780	235	364	770	364	56	18	7.2
14	3.3	308	952	140	640	220	364	850	334	52	17	6.6
15	3.7	410	724	162	532	232	352	1,160	331	50	17	6.6
16	3.7	853	694	170	470	991	331	1,400	328	48	16	6.1
17	4.2	320	652	170	422	730	348	1,480	328	47	16	6.6
18	3.7	209	634	165	386	556	334	1,320	319	44	15	8.3
19	4.2	455	616	160	356	508	422	1,170	319	43	14	8.3
20	3.7	1,520	592	726	325	548	344	1,220	295	42	14	8.8
21	4.2	612	544	4,080	298	670	410	1,250	275	38	14	9.4
22	4.2	382	490	1,090	275	690	410	1,220	235	36	14	9.4
23	3.7	295	440	458	262	790	434	1,140	192	35	12	9.4
24	3.7	246	386	730	255	640	416	1,000	185	32	11	9.4
25	4.2	223	342	446	252	540	404	790	174	30	12	9.4
26	4.2	205	306	1,210	250	476	386	740	172	28	15	9.4
27	4.2	201	272	1,340	245	434	380	710	164	26	16	8.3
28	4.2	481	247	2,930	238	416	368	670	140	25	15	7.8
29	4.7	970	237	5,700	------	386	352	572	136	24	14	7.8
30	4.7	620	228	2,640	------	380	344	488	130	22	14	7.2
31	4.2	------	198	2,160	------	352	------	434	------	22	12	------
TOTAL	124.7	8,608.8	21,974	26,168	16,926	12,484	10,998	28,190	11,037	1,691	511	260.1
MEAN	4.02	287	709	844	605	403	367	909	368	54.5	16.5	8.67
MAX	4.7	1,520	2,820	5,700	1,400	991	434	1,620	1,160	116	20	11
MIN	3.3	4.2	198	101	238	202	307	340	130	22	11	6.1
AC-FT	247	17,080	43,590	51,900	33,570	24,760	21,810	55,910	21,890	3,350	1,010	516

CAL YR 1966 TOTAL 113,102.2 MEAN 310 MAX 2,840 MIN 2.0 AC-FT 224,300
WTR YR 1967 TOTAL 138,972.6 MEAN 381 MAX 5,700 MIN 3.3 AC-FT 275,700

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	17	44	220	535	726	495	212	80	19	7.2	11
2	11	16	41	205	1,000	618	441	210	79	19	6.7	9.6
3	79	16	142	188	790	580	414	208	77	20	6.2	9.0
4	46	16	202	182	535	562	381	214	74	25	6.2	8.3
5	34	17	302	174	545	568	358	216	76	23	5.6	8.3
6	31	17	140	164	580	495	351	190	74	23	5.6	8.3
7	27	17	176	144	586	441	334	168	69	22	5.6	8.3
8	24	17	116	137	535	414	324	158	58	21	5.6	8.3
9	23	18	81	154	520	381	327	158	52	20	5.0	7.7
10	21	19	96	444	540	344	348	154	51	19	4.3	7.7
11	21	19	110	280	495	324	369	152	49	18	4.3	7.7
12	20	19	110	245	475	354	358	144	46	18	4.4	7.7
13	20	22	90	562	475	362	309	158	42	18	4.4	7.7
14	20	115	75	4,510	455	351	294	156	39	18	4.6	7.1
15	19	80	51	4,080	418	348	306	132	37	17	4.6	7.1
16	18	53	59	1,530	545	423	297	120	35	17	4.6	5.9
17	18	44	51	890	1,070	410	268	120	34	16	4.6	5.2
18	18	42	81	790	946	369	248	122	32	13	4.6	5.2
19	18	42	51	790	3,580	354	240	134	31	12	5.2	5.2
20	17	42	40	820	4,360	340	225	224	30	12	8.3	4.6
21	18	40	42	1,040	3,680	348	216	166	28	12	21	4.6
22	19	38	40	1,110	2,790	344	196	142	25	10	24	4.0
23	20	37	42	1,090	3,190	337	192	124	23	8.9	21	4.0
24	20	35	87	1,040	1,950	351	190	112	28	8.9	18	4.0
25	20	34	160	946	1,170	441	190	110	25	8.4	16	4.0
26	20	34	240	790	979	455	196	106	24	7.2	18	4.0
27	19	33	331	626	935	405	204	102	23	6.7	18	4.0
28	19	34	325	510	880	432	194	100	21	6.7	16	4.0
29	18	42	304	830	790	510	194	98	20	7.2	14	4.0
30	18	55	255	717	------	535	214	91	20	6.7	12	3.5
31	18	------	238	550	------	495	------	86	------	7.2	11	------
TOTAL	701.0	1,030	4,122	25,758	35,349	13,417	8,673	4,587	1,302	459.9	296.6	190.0
MEAN	22.6	34.3	133	831	1,219	433	289	148	43.4	14.8	9.57	6.33
MAX	79	115	331	4,510	4,360	726	495	224	80	25	24	11
MIN	7.0	16	40	137	418	324	190	86	20	6.7	4.3	3.5
AC-FT	1,390	2,040	8,180	51,090	70,110	26,610	17,200	9,100	2,580	912	588	377

CAL YR 1967 TOTAL 114,118.1 MEAN 313 MAX 5,700 MIN 6.1 AC-FT 226,400
WTR YR 1968 TOTAL 95,885.5 MEAN 262 MAX 4,510 MIN 3.5 AC-FT 190,200

11382000 THOMES CREEK AT PASKENTA, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	16	60	130	690	540	2,070	1,880	484	80	21	9.6
2	3.8	68	52	134	630	512	1,820	1,160	458	78	20	9.6
3	4.0	90	48	192	519	434	1,360	930	428	71	19	9.0
4	3.8	57	47	498	477	404	1,180	620	410	69	18	8.3
5	4.0	50	47	690	630	416	1,420	640	399	65	16	8.3
6	4.0	48	51	760	750	440	1,060	1,090	372	63	16	8.3
7	4.0	45	51	730	596	410	760	2,150	335	62	15	8.3
8	4.6	43	85	670	491	404	750	2,370	290	58	15	8.3
9	3.8	42	94	533	980	404	830	2,840	260	54	14	8.3
10	4.0	45	1,530	452	940	366	840	3,100	246	52	14	8.3
11	4.6	44	548	732	1,690	350	1,640	2,280	232	49	13	7.7
12	6.5	66	214	3,260	1,320	345	2,440	2,470	232	46	13	7.7
13	21	59	167	4,130	1,000	325	1,910	1,670	229	42	13	7.7
14	24	55	205	1,900	1,060	325	1,320	1,300	220	44	13	7.7
15	19	62	653	1,170	1,170	360	1,040	1,030	208	43	13	7.7
16	16	58	275	990	1,030	477	1,180	1,000	220	42	13	7.1
17	14	60	180	960	940	760	2,090	1,080	208	40	13	7.1
18	13	222	145	1,110	900	910	2,520	1,050	205	38	13	7.7
19	11	205	145	3,180	780	810	2,420	870	235	36	13	7.7
20	10	134	137	7,320	690	930	2,700	740	217	35	13	8.3
21	9.6	92	127	6,160	564	1,160	3,340	730	180	33	12	8.3
22	9.0	74	127	2,900	519	1,050	3,840	760	157	31	12	8.3
23	8.3	64	130	1,740	540	1,420	3,640	790	145	30	12	8.3
24	7.1	56	406	1,460	931	1,550	2,590	760	132	28	11	8.3
25	7.1	60	513	1,820	556	1,670	1,700	650	112	28	11	8.3
26	6.5	57	394	3,050	477	2,000	1,300	580	111	26	11	8.3
27	6.5	52	255	1,470	580	2,540	1,410	540	104	26	11	7.7
28	5.9	50	458	1,110	780	3,060	2,140	491	96	24	11	7.7
29	7.1	49	275	950	------	3,140	2,680	491	91	24	10	8.3
30	11	58	188	950	------	2,900	2,370	540	85	23	10	7.7
31	20	------	148	780	------	2,680	------	512	------	22	9.6	------
TOTAL	277.0	2,081	7,755	51,931	22,230	33,092	56,360	37,114	7,101	1,362	418.6	243.9
MEAN	8.94	69.4	250	1,675	794	1,067	1,879	1,197	237	43.9	13.5	8.13
MAX	24	222	1,530	7,320	1,690	3,140	3,840	3,100	484	80	21	9.6
MIN	3.8	16	47	130	477	325	750	491	85	22	9.6	7.1
AC-FT	549	4,130	15,380	103,000	44,090	65,640	111,800	73,620	14,080	2,700	830	484

CAL YR 1968 TOTAL 100,145.5 MEAN 274 MAX 4,510 MIN 3.5 AC-FT 198,600
WTR YR 1969 TOTAL 219,965.5 MEAN 603 MAX 7,320 MIN 3.8 AC-FT 436,300

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	4.2	16	335	822	617	215	141	91	26	7.0	6.2
2	7.1	4.2	16	285	718	447	208	148	90	24	6.6	5.7
3	6.5	52	15	246	637	404	203	160	87	22	6.6	5.7
4	6.5	35	16	201	600	661	201	173	80	21	6.6	6.2
5	6.5	150	16	152	540	416	198	178	74	19	6.6	6.2
6	7.1	91	16	134	493	422	198	173	71	18	6.2	6.6
7	7.1	33	16	130	447	822	198	168	66	16	6.2	7.0
8	2.6	28	19	174	416	1,070	195	165	71	14	5.7	5.7
9	3.0	33	22	951	404	830	188	186	80	14	5.3	5.0
10	5.9	25	22	980	398	752	190	174	66	14	5.3	4.7
11	5.9	23	37	645	386	698	196	165	58	13	5.3	4.4
12	6.5	25	2,690	737	461	626	186	157	52	13	5.0	4.4
13	7.7	28	1,790	1,800	635	590	184	154	51	12	4.7	4.7
14	11	27	1,150	5,380	475	680	182	148	63	12	4.4	4.4
15	21	25	930	2,330	468	635	174	148	62	12	4.4	4.7
16	123	25	640	8,830	768	582	173	171	54	12	4.4	4.7
17	76	24	564	5,680	840	526	166	188	51	11	4.7	4.4
18	12	23	650	2,760	542	454	162	186	46	10	4.7	4.7
19	8.2	22	2,250	2,710	503	410	156	178	42	10	4.4	4.7
20	7.0	20	2,090	2,560	489	360	146	158	40	9.6	4.7	4.4
21	6.1	20	4,130	7,180	475	345	142	140	38	9.2	4.4	4.1
22	6.1	20	1,340	5,960	447	330	137	135	35	8.3	4.4	3.8
23	5.6	19	1,940	11,500	428	317	132	135	33	7.9	4.7	3.4
24	5.6	19	1,640	7,610	416	313	132	132	33	7.9	4.7	3.1
25	5.2	19	1,190	3,780	410	313	133	130	31	7.4	4.7	2.5
26	5.2	18	1,070	3,840	422	305	138	133	29	7.4	4.7	2.5
27	5.2	16	900	6,200	434	284	142	135	30	7.4	4.7	2.8
28	4.7	16	660	2,870	468	261	142	120	33	7.9	5.0	2.8
29	4.2	16	548	1,730	------	254	141	111	34	7.9	5.3	3.1
30	4.2	16	470	1,240	------	244	140	103	30	7.4	5.3	2.2
31	4.2	------	399	974	------	229	------	96	------	7.4	6.2	------
TOTAL	394.0	876.4	27,252	89,904	14,542	15,197	5,098	4,689	1,621	388.7	162.9	134.8
MEAN	12.7	29.2	879	2,900	519	490	170	151	54.0	12.5	5.25	4.49
MAX	123	150	4,130	11,500	840	1,070	215	188	91	26	7.0	7.0
MIN	2.6	4.2	15	130	386	229	132	96	29	7.4	4.4	2.2
AC-FT	781	1,740	54,050	178,300	28,840	30,140	10,110	9,300	3,220	771	323	267

CAL YR 1969 TOTAL 238,374.9 MEAN 653 MAX 7,320 MIN 2.6 AC-FT 472,800
WTR YR 1970 TOTAL 160,259.8 MEAN 439 MAX 11,500 MIN 2.2 AC-FT 317,900

11382550 DEER CREEK BELOW SLATE CREEK, NEAR DEER CREEK MEADOWS, CALIF.

LOCATION.--Lat 40°14'02", long 121°27'50", in NE¼NE¼ sec.1, T.27 N., R.4 E., Tehama County, Lassen National Forest, on right bank 0.4 mile downstream from Slate Creek, 3.2 miles southwest of Deer Creek Meadows, and 15 miles southwest of Chester.

DRAINAGE AREA.--69.4 sq mi.

PERIOD OF RECORD.--August 1961 to September 1970 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 4,300 ft (from topographic map).

AVERAGE DISCHARGE.--9 years, 138 cfs (99,980 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (300 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Nov. 17, 1965	2400	343	3.72	Jan. 15, 1968	0600	555	4.27	Dec. 12, 1969	1830	700	4.50
Apr. 1, 1966	2000	366	3.84	Feb. 21, 1968	0745	*890	4.90	Dec. 21, 1969	1200	2,020	6.38
Apr. 10, 1966	0100	*525	4.21					Dec. 25, 1969	1000	575	4.25
				Nov. 12, 1968	0045	313	3.69	Jan. 9, 1970	2100	354	3.75
Nov. 16, 1966	0400	366	3.84	Dec. 10, 1968	1430	490	4.14	Jan. 14, 1970	1000	1,950	6.34
Nov. 20, 1966	0315	610	4.38	Jan. 21, 1969	0200	*2,670	7.13	Jan. 16, 1970	0930	2,150	6.59
Dec. 1, 1966	1545	390	3.90	Jan. 26, 1969	0515	1,400	5.67	Jan. 21, 1970	2330	2,510	6.97
Dec. 5, 1966	0545	378	3.87	Mar. 31, 1969	1915	475	4.11	Jan. 23, 1970	2245	*5,860	9.69
Jan. 21, 1967	1800	410	-	Apr. 5, 1969	0630	422	3.98	Jan. 27, 1970	0300	1,640	6.01
Jan. 29, 1967	0900	*1,240	5.44	Apr. 21, 1969	2030	645	4.45	Feb. 12, 1970	1700	370	3.87
Mar. 16, 1967	1400	475	4.11	Apr. 29, 1969	2100	640	4.34	Mar. 1, 1970	0200	382	3.89
Mar. 23, 1967	0615	374	3.86	May 11, 1969	2215	710	4.58	Mar. 7, 1970	2230	410	3.96
May 23, 1967	1900	878	4.88								

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Aug. 25, 1966	42	1969	Oct. 1, 3, 4, 8-10, 1968	47
1967	Nov. 1, 2, 4, 5, 1966	43	1970	Oct. 31 to Nov. 3, 1969	55
1968	Sept.29, 30, 1968	47			

Period of record: Maximum dishcarge, 7,900 cfs Dec. 22, 1964 (gage height, 11.06 ft in gage well, 11.95 ft, from floodmarks), from rating curve extended above 1,500 cfs on basis of slope-area measurement at gage height 9.06 ft; minimum, 37 cfs Nov. 17, 1961, Sept. 17, 1962.

REMARKS.--Records good. No storage or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	56	77	62	62	64	316	142	67	52	46	44
2	61	56	76	64	61	62	330	140	67	52	46	44
3	61	56	76	65	60	56	313	138	67	52	45	44
4	61	58	74	69	65	58	296	142	65	51	44	44
5	61	58	74	90	72	61	279	140	64	52	44	44
6	61	58	72	113	67	67	279	132	67	51	43	45
7	61	60	70	108	66	72	282	126	69	51	43	45
8	60	100	70	101	64	79	270	124	66	51	43	45
9	60	62	70	98	64	88	292	134	64	51	44	46
10	60	60	70	90	61	121	462	136	61	51	44	46
11	60	61	70	83	59	124	394	121	60	52	44	46
12	59	94	72	80	60	121	347	113	59	52	44	46
13	59	87	69	79	59	201	289	108	58	51	43	49
14	61	154	66	77	59	193	267	103	58	50	44	48
15	61	134	61	77	59	165	267	101	59	49	44	47
16	60	86	62	76	58	140	270	96	59	49	44	46
17	60	184	61	74	58	122	285	94	56	49	44	46
18	60	283	61	74	59	117	267	91	54	49	44	48
19	61	154	60	72	61	115	227	88	54	48	44	48
20	60	119	59	70	62	104	208	86	54	48	44	46
21	59	98	58	69	62	104	193	85	55	48	44	46
22	59	85	61	67	65	103	184	82	55	48	44	45
23	58	91	58	66	69	104	184	80	54	48	44	45
24	58	106	61	66	70	119	179	79	53	48	43	45
25	58	91	61	65	66	136	186	76	52	48	42	45
26	58	88	61	65	64	156	179	74	51	48	44	45
27	58	83	62	64	62	176	163	73	51	47	43	45
28	58	80	66	64	65	203	159	72	50	47	43	45
29	58	80	65	65	------	230	152	70	50	46	43	45
30	56	79	66	66	------	255	146	69	50	49	45	45
31	56	------	64	62	------	289	------	69	------	50	45	------
TOTAL	1,844	2,861	2,053	2,341	1,759	4,005	7,665	3,184	1,749	1,538	1,361	1,368
MEAN	59.5	95.4	66.2	75.5	62.8	129	256	103	58.3	49.6	43.9	45.6
MAX	61	283	77	113	72	289	462	142	69	52	46	49
MIN	56	56	58	62	58	56	146	69	50	46	42	44
AC-FT	3,660	5,670	4,070	4,640	3,490	7,940	15,200	6,320	3,470	3,050	2,700	2,710

CAL YR 1965 TOTAL 52,983 MEAN 145 MAX 590 MIN 56 AC-FT 105,100
WTR YR 1966 TOTAL 31,728 MEAN 86.9 MAX 462 MIN 42 AC-FT 62,930

11382550 DEER CREEK BELOW SLATE CREEK, NEAR DEER CREEK MEADOWS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	43	245	62	327	102	156	119	365	136	79	63
2	46	43	193	61	267	100	151	140	316	131	79	63
3	46	44	166	60	232	98	154	156	292	126	78	63
4	46	43	164	60	206	96	148	167	297	123	77	63
5	46	43	288	60	190	94	142	183	294	120	76	63
6	46	60	184	57	178	92	142	216	277	117	76	63
7	46	52	144	57	167	90	141	294	269	115	75	63
8	46	48	123	57	158	90	146	402	263	112	74	62
9	46	46	112	57	153	92	153	454	274	110	74	62
10	46	46	107	57	156	110	149	434	259	106	74	62
11	46	51	103	57	153	170	140	331	259	105	73	62
12	46	85	101	57	161	165	139	295	264	102	72	61
13	46	55	124	57	169	155	149	302	250	100	72	61
14	46	53	133	57	160	150	148	345	232	98	71	61
15	46	106	115	58	147	170	139	427	224	97	70	61
16	46	191	106	57	141	400	133	527	219	101	70	60
17	46	65	98	56	137	350	131	600	216	100	69	62
18	46	56	92	55	136	310	130	652	218	95	68	63
19	46	210	88	55	130	260	128	668	226	93	68	61
20	46	366	86	56	122	250	121	688	213	92	67	60
21	45	144	82	240	118	250	118	722	202	91	68	60
22	45	99	78	185	117	249	116	753	191	90	67	60
23	45	85	76	135	117	335	114	766	182	88	66	60
24	45	73	74	120	116	265	119	742	174	87	67	59
25	45	67	71	110	115	233	125	654	167	86	67	59
26	44	66	69	105	109	211	117	590	161	85	68	58
27	45	64	65	120	106	204	122	548	155	84	66	58
28	45	101	64	303	104	201	115	505	150	84	65	58
29	44	212	64	927	------	185	111	467	145	83	65	58
30	44	135	64	568	------	172	111	419	141	82	64	59
31	45	------	63	407	------	166	------	376	------	81	64	------
TOTAL	1,412	2,752	3,542	4,373	4,392	5,815	4,008	13,942	6,895	3,120	2,189	1,828
MEAN	45.5	91.7	114	141	157	188	134	450	230	101	70.6	60.9
MAX	46	366	288	927	327	400	156	766	365	136	79	63
MIN	44	43	63	55	104	90	111	119	141	81	64	58
AC-FT	2,800	5,460	7,030	8,670	8,710	11,530	7,950	27,650	13,680	6,190	4,340	3,630

CAL YR 1966 TOTAL 32,676 MEAN 89.5 MAX 462 MIN 42 AC-FT 64,810
WTR YR 1967 TOTAL 54,268 MEAN 149 MAX 927 MIN 43 AC-FT 107,600

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	57	59	62	76	264	243	137	85	57	52	50
2	118	56	59	59	82	242	224	134	84	57	51	50
3	89	56	64	57	101	235	209	133	83	57	51	50
4	66	57	81	57	93	231	208	132	82	56	51	50
5	67	57	103	56	88	233	206	129	84	59	50	50
6	64	56	80	55	85	216	197	123	85	59	50	50
7	62	56	75	55	84	205	194	118	81	56	50	50
8	61	57	67	56	86	200	193	116	78	55	50	49
9	61	57	66	59	92	184	199	113	76	55	50	49
10	61	57	64	59	96	171	209	111	74	54	50	49
11	60	56	63	60	101	163	221	111	72	54	50	49
12	60	56	61	59	104	154	221	111	71	54	50	49
13	59	57	54	67	106	150	202	126	70	54	50	50
14	58	76	63	158	99	156	195	115	69	54	51	53
15	59	62	61	461	92	156	194	106	68	54	51	50
16	59	59	61	256	92	150	186	101	66	53	52	49
17	59	58	60	162	142	148	169	99	66	53	52	49
18	59	64	62	130	157	140	161	97	65	52	53	49
19	59	139	61	114	247	134	158	105	64	53	96	49
20	58	80	60	104	586	136	151	119	63	52	76	49
21	61	67	59	97	756	138	145	105	63	52	78	49
22	61	61	59	93	640	144	139	133	62	51	64	49
23	60	60	59	93	795	151	138	131	62	51	57	48
24	59	59	60	91	627	156	136	131	61	51	54	48
25	58	58	62	89	460	202	136	119	60	51	53	48
26	58	56	65	84	385	191	137	105	59	51	53	48
27	58	57	75	80	348	180	137	99	58	51	52	48
28	59	59	75	77	318	192	135	95	58	50	52	48
29	57	59	72	62	291	215	136	93	58	51	51	47
30	57	58	67	77	------	235	138	90	58	50	51	47
31	57	------	64	83	------	246	------	87	------	52	51	------
TOTAL	1,945	1,867	2,041	3,072	7,229	5,718	5,317	3,524	2,085	1,659	1,702	1,473
MEAN	62.7	62.2	65.8	99.1	249	184	177	114	69.5	53.5	54.9	49.1
MAX	118	139	103	461	795	264	243	137	85	59	96	53
MIN	57	56	54	55	76	134	135	87	58	50	50	47
AC-FT	3,860	3,700	4,050	6,090	14,340	11,340	10,550	6,990	4,140	3,290	3,380	2,920

CAL YR 1967 TOTAL 52,415 MEAN 144 MAX 927 MIN 54 AC-FT 104,000
WTR YR 1968 TOTAL 37,632 MEAN 103 MAX 795 MIN 47 AC-FT 74,640

11382550 DEER CREEK BELOW SLATE CREEK, NEAR DEER CREEK MEADOWS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	52	60	63	244	116	406	515	269	132	95	73
2	48	89	56	63	216	114	363	497	260	132	94	71
3	47	94	55	63	198	112	317	475	253	128	93	71
4	47	75	54	64	186	110	305	435	248	126	92	71
5	48	60	56	64	184	109	385	467	242	125	91	71
6	48	55	56	65	174	108	318	538	233	124	91	70
7	48	54	55	66	159	106	286	585	223	121	90	70
8	47	52	60	66	152	103	287	611	222	120	90	71
9	47	55	65	64	172	103	286	640	233	120	89	70
10	47	52	324	64	185	100	292	654	216	117	88	69
11	62	81	203	69	221	99	335	660	221	115	87	69
12	119	166	121	91	214	97	362	654	203	113	86	69
13	116	74	103	205	189	96	348	628	195	112	85	67
14	88	64	94	200	180	95	336	575	215	111	86	67
15	66	63	107	146	174	98	330	513	203	110	85	66
16	58	68	102	119	162	102	355	483	187	109	85	67
17	55	68	88	108	154	109	393	474	180	109	84	67
18	52	135	82	103	150	114	490	469	191	108	83	67
19	51	94	78	466	146	113	466	446	206	107	83	68
20	51	73	69	1,550	142	116	491	414	186	106	82	68
21	50	66	67	1,920	136	116	543	397	180	105	81	68
22	50	66	68	866	131	126	575	388	167	104	80	66
23	50	64	65	550	133	145	567	384	162	104	80	66
24	49	68	71	418	128	153	458	375	157	103	79	64
25	49	67	72	475	128	162	403	360	152	101	79	64
26	49	64	69	1,060	123	180	383	349	149	100	79	64
27	48	62	68	635	118	210	380	331	145	99	78	63
28	48	59	66	466	121	247	411	305	142	98	77	63
29	65	58	65	366	------	274	491	289	139	97	77	63
30	72	60	64	309	------	310	525	285	136	96	75	62
31	55	------	63	264	------	394	------	277	------	95	74	------
TOTAL	1,777	2,158	2,626	11,028	4,620	4,437	11,887	14,473	5,915	3,447	2,618	2,025
MEAN	57.3	71.9	84.7	356	165	143	396	467	197	111	84.5	67.5
MAX	119	166	324	1,920	244	394	575	660	269	132	95	73
MIN	47	52	54	63	118	95	286	277	136	95	74	62
AC-FT	3,520	4,280	5,210	21,870	9,160	8,800	23,580	28,710	11,730	6,840	5,190	4,020

CAL YR 1968 TOTAL 38,340 MEAN 105 MAX 795 MIN 47 AC-FT 76,050
WTR YR 1969 TOTAL 67,011 MEAN 184 MAX 1,920 MIN 47 AC-FT 132,900

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	55	62	143	383	319	155	123	109	88	67	60
2	63	55	62	131	341	252	153	119	106	85	66	60
3	63	55	64	121	320	220	150	119	106	83	65	60
4	63	56	64	117	301	211	148	120	105	81	65	61
5	61	163	63	110	280	204	146	120	107	80	65	62
6	62	102	64	106	262	205	145	121	105	78	65	60
7	62	98	63	109	250	243	143	121	102	78	65	60
8	68	96	66	116	240	327	141	127	107	77	65	60
9	64	82	67	200	232	264	139	145	112	76	64	59
10	62	75	68	313	224	249	140	156	130	75	63	59
11	61	73	89	228	221	232	139	139	106	75	63	59
12	61	70	440	278	292	226	136	139	102	74	63	59
13	61	68	346	670	261	229	139	137	109	73	63	59
14	63	68	194	1,500	245	248	142	127	130	73	63	58
15	98	69	160	767	229	243	138	123	110	73	63	59
16	135	69	131	1,620	233	238	139	121	105	71	62	59
17	113	65	117	1,350	247	230	135	123	100	71	62	58
18	79	64	117	819	230	214	131	124	95	71	62	58
19	70	64	509	692	212	205	160	125	92	70	62	59
20	66	64	631	645	204	199	135	124	92	73	61	59
21	64	64	1,100	1,740	199	194	133	122	91	74	61	58
22	63	64	496	2,010	195	191	128	120	88	71	61	58
23	62	63	330	2,810	194	187	125	120	88	70	61	58
24	62	63	415	2,520	189	184	123	118	86	69	61	57
25	61	63	462	1,110	185	181	125	118	85	69	60	57
26	61	63	327	859	184	178	144	118	87	68	60	57
27	60	64	251	1,190	183	172	138	120	95	67	60	57
28	60	64	205	707	226	169	130	118	121	67	60	57
29	61	63	184	577	------	166	131	117	116	67	61	57
30	57	63	167	493	------	164	130	113	93	67	60	57
31	55	------	151	429	------	159	------	110	------	67	60	------
TOTAL	2,104	2,145	7,465	24,480	6,762	6,703	4,161	3,847	3,080	2,281	1,939	1,761
MEAN	67.9	71.5	241	790	242	216	139	124	103	73.6	62.5	58.7
MAX	135	163	1,100	2,810	383	327	160	156	130	88	67	62
MIN	55	55	62	106	183	159	123	110	85	67	60	57
AC-FT	4,170	4,250	14,810	48,560	13,410	13,300	8,250	7,630	6,110	4,520	3,850	3,490

CAL YR 1969 TOTAL 72,164 MEAN 198 MAX 1,920 MIN 55 AC-FT 143,100
WTR YR 1970 TOTAL 66,728 MEAN 183 MAX 2,810 MIN 55 AC-FT 132,400

11383500 DEER CREEK NEAR VINA, CALIF.

LOCATION.--Lat 40°00'51", long 121°56'50", in NW¼NE¼ sec.23, T.25 N., R.1 W., Tehama County, on left bank 0.5 mile upstream from concrete diversion dam and 7.9 miles northeast of Vina.

DRAINAGE AREA.--208 sq mi.

PERIOD OF RECORD.--October 1911 to December 1915, March 1920 to December 1937, January 1939 to September 1970. Monthly discharge only for some periods, published in WSP 1315-A.

GAGE.--Water-stage recorder. Datum of gage is 479.5 ft above mean sea level (river-profile survey). Prior to Oct. 9, 1928, nonrecording gage at site 0.8 mile downstream at different datum. Oct. 9, 1928, to Jan. 19, 1939, water-stage recorder at present site at datum 2.64 ft higher.

AVERAGE DISCHARGE.--52 years, 313 cfs (226,800 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (2,500 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Jan. 4, 1966	2000	*3,960	7.58	Feb. 20, 1968	0300	2,760	6.50	Dec. 12, 1969	1500	3,480	7.18
				Mar. 16, 1968	0930	2,520	6.24	Dec. 19, 1969	1400	3,930	7.56
Nov. 20, 1966	0345	3,240	6.96					Dec. 21, 1969	1430	5,970	9.03
Dec. 2, 1966	2000	*6,620	9.44	Dec. 10, 1968	1230	4,140	7.73	Jan. 9, 1970	1800	3,160	6.91
Jan. 21, 1967	0800	4,390	7.92	Dec. 15, 1968	1400	4,030	7.64	Jan. 14, 1970	0900	8,660	10.53
Jan. 29, 1967	0445	5,620	8.80	Dec. 24, 1968	1430	2,580	6.36	Jan. 16, 1970	1300	5,350	8.74
Jan. 31, 1967	0500	4,960	8.34	Jan. 13, 1969	0600	9,820	11.08	Jan. 23, 1970	2300	*20,100	15.14
Mar. 16, 1967	1600	3,290	7.01	Jan. 21, 1969	0800	*15,000	13.28	Jan. 27, 1970	0700	4,720	8.17
				Jan. 26, 1969	0400	6,180	9.16	Mar. 1, 1970	0700	4,370	7.91
Jan. 10, 1968	0530	*4,310	7.86	Feb. 15, 1969	1030	3,700	7.37	Mar. 8, 1970	0100	2,500	6.11
Jan. 15, 1968	0330	3,360	7.07								

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Sept. 5, 1966	82	1969	Oct. 1, 1968	85
1967	Oct. 1, Oct. 29 to Nov. 2, 1966	83	1970	Sept.26, 1970	94
1968	Sept.28-30, 1968	84			

Period of record: Maximum discharge, 23,800 cfs Dec. 10, 1937 (gage height, 19.2 ft, present datum, from floodmarks), from rating curve extended above 9,200 cfs on basis of velocity-area studies; minimum, 43 cfs Dec. 13, 1932.

REMARKS.--Records good except those for period of no gage-height record Nov. 20 to Dec. 7, 1966, which are fair. No storage or large diversion above station.

REVISIONS (WATER YEARS).--WSP 1315-A: 1940-42(M). WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	112	159	219	318	242	568	301	146	99	94	87
2	104	113	153	189	271	227	600	296	145	99	91	85
3	104	114	150	178	298	210	578	293	144	98	90	83
4	105	113	148	1,830	774	201	543	299	140	98	88	83
5	105	115	148	1,730	525	209	511	306	136	97	87	82
6	106	115	145	838	452	216	507	297	136	97	86	83
7	104	118	141	587	382	229	509	284	145	95	86	83
8	104	154	139	543	316	239	498	275	142	95	85	84
9	104	133	137	472	278	252	489	275	137	97	85	84
10	104	110	136	392	250	313	742	306	131	97	85	84
11	104	108	137	332	223	356	739	274	127	97	86	84
12	104	123	146	290	210	333	664	253	124	97	86	85
13	104	164	139	261	195	438	574	241	121	97	86	86
14	105	397	134	243	186	512	516	231	119	98	85	90
15	109	369	128	230	178	473	492	221	118	97	84	88
16	107	208	126	223	169	425	503	211	120	95	84	86
17	106	545	124	212	165	361	538	202	117	94	84	86
18	110	1,240	122	205	163	336	541	194	114	94	85	88
19	117	511	121	197	227	351	470	187	112	94	84	91
20	117	314	119	186	230	324	426	183	111	94	84	87
21	115	226	119	179	206	306	397	178	111	94	84	86
22	114	186	120	177	203	291	376	173	112	92	84	85
23	113	173	118	173	283	275	364	167	111	92	84	85
24	113	486	170	166	315	280	361	163	110	92	84	85
25	113	357	203	162	306	295	368	159	106	92	85	85
26	113	257	153	158	291	316	381	155	106	91	84	85
27	113	221	143	156	260	351	351	153	103	91	86	85
28	113	194	694	152	245	394	335	151	102	90	86	84
29	113	179	531	286	------	437	322	149	100	90	86	83
30	113	168	368	506	------	485	309	148	99	91	86	83
31	112	------	283	319	------	529	------	148	------	97	89	------
TOTAL	3,373	7,623	5,654	11,791	7,919	10,206	14,572	6,873	3,645	2,941	2,663	2,555
MEAN	109	254	182	380	283	329	486	222	122	94.9	85.9	85.2
MAX	117	1,240	694	1,830	774	529	742	306	146	99	94	91
MIN	104	108	118	152	163	201	309	148	99	90	84	82
AC-FT	6,690	15,120	11,210	23,390	15,710	20,240	28,900	13,630	7,230	5,830	5,280	5,070

CAL YR 1965 TOTAL 134,669 MEAN 369 MAX 7,270 MIN 104 AC-FT 267,100
WTR YR 1966 TOTAL 79,815 MEAN 219 MAX 1,830 MIN 82 AC-FT 158,300

11383500 DEER CREEK NEAR VINA, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	83	840	142	2,020	232	526	514	682	235	135	114
2	85	83	2,600	140	1,320	225	481	514	590	225	134	113
3	86	84	1,900	136	1,000	222	493	536	550	216	135	113
4	85	84	1,350	135	797	216	473	560	565	207	134	113
5	84	84	1,800	135	668	207	555	585	550	202	133	113
6	85	105	1,000	130	573	205	1,390	622	518	196	133	113
7	86	120	790	126	510	207	1,110	740	505	189	133	113
8	86	95	560	126	462	209	847	1,010	505	185	131	113
9	85	91	436	124	426	218	743	1,180	514	180	130	113
10	84	89	408	123	409	265	747	1,180	493	174	130	113
11	85	91	348	123	388	1,190	774	956	497	170	130	113
12	86	122	312	123	378	827	651	812	501	166	128	112
13	86	125	330	121	392	650	607	734	469	163	127	111
14	86	102	384	121	381	505	613	752	434	159	126	111
15	86	161	330	119	351	501	574	886	420	157	126	111
16	86	698	298	119	333	2,880	528	1,110	412	157	125	111
17	85	197	271	118	318	2,120	896	1,240	409	163	123	112
18	84	131	250	116	303	1,380	860	1,310	402	155	122	116
19	84	645	234	116	291	1,130	805	1,340	426	151	121	114
20	85	2,200	220	660	270	1,050	716	1,350	398	149	120	111
21	85	900	210	3,250	258	970	643	1,380	378	149	120	110
22	86	600	197	1,850	250	935	592	1,420	357	147	120	110
23	86	450	191	914	245	1,110	623	1,450	339	144	119	111
24	85	380	185	1,030	248	1,010	646	1,380	321	143	117	110
25	84	250	175	694	303	860	718	1,220	303	141	120	110
26	84	195	169	628	260	735	686	1,110	291	141	123	109
27	84	175	160	776	242	648	949	1,040	279	140	119	108
28	84	450	152	1,380	238	616	758	942	265	140	117	108
29	83	1,310	152	3,900	------	557	644	879	255	141	115	109
30	83	620	149	3,010	------	530	570	824	245	140	115	109
31	83	------	145	3,440	------	547	------	728	------	138	114	------
TOTAL	2,629	10,720	16,546	23,925	13,634	22,957	21,218	30,304	12,873	5,163	3,875	3,347
MEAN	84.8	357	534	772	487	741	707	978	429	167	125	112
MAX	86	2,200	2,600	3,900	2,020	2,880	1,390	1,450	682	235	135	116
MIN	83	83	145	116	238	205	473	514	245	138	114	108
AC-FT	5,210	21,260	32,820	47,460	27,040	45,540	42,090	60,110	25,530	10,240	7,690	6,640

CAL YR 1966 TOTAL 93,060 MEAN 255 MAX 2,600 MIN 82 AC-FT 184,600
WTR YR 1967 TOTAL 167,191 MEAN 458 MAX 3,900 MIN 83 AC-FT 331,600

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	111	111	143	128	318	590	507	249	152	102	96	89
2	122	111	125	126	648	514	467	244	148	102	93	89
3	219	111	291	122	672	481	429	242	146	102	90	89
4	127	112	209	119	560	451	411	242	146	101	88	88
5	121	112	336	119	536	448	403	236	150	99	87	88
6	121	112	185	117	590	423	381	229	160	101	87	88
7	116	112	371	116	546	406	368	220	156	99	87	87
8	115	113	187	117	485	406	358	212	143	98	86	87
9	113	113	149	156	505	364	355	208	137	98	86	87
10	113	114	138	1,820	532	333	364	201	134	97	86	87
11	113	114	133	367	458	315	385	199	132	96	86	87
12	113	113	130	225	426	420	396	203	129	96	86	87
13	112	114	122	235	426	575	371	210	127	96	86	88
14	111	131	112	1,210	374	555	351	224	126	97	87	92
15	109	130	119	2,410	330	477	345	197	124	97	89	90
16	111	119	128	1,130	336	1,310	338	186	122	96	88	87
17	111	116	125	600	824	934	313	178	120	94	93	86
18	111	119	130	416	699	675	298	176	119	94	89	86
19	111	203	128	330	951	553	289	176	117	93	96	86
20	111	166	125	276	2,360	483	278	201	115	93	184	86
21	111	130	122	242	2,300	448	267	192	113	92	141	86
22	115	120	121	218	1,980	429	256	210	112	92	127	86
23	114	117	123	209	2,090	418	252	234	110	92	106	85
24	113	115	128	200	1,770	411	246	232	109	90	98	85
25	112	114	135	191	1,260	440	244	212	108	90	96	85
26	111	113	141	185	1,010	479	244	190	106	90	94	85
27	111	113	161	176	865	433	246	178	105	89	93	85
28	111	117	163	174	752	422	244	170	105	89	93	84
29	113	140	154	850	655	448	244	164	102	90	90	84
30	112	152	141	797	------	479	249	160	102	92	90	84
31	111	------	133	395	------	499	------	156	------	92	89	------
TOTAL	3,625	3,677	4,908	13,776	25,258	15,619	9,899	6,331	3,775	2,949	2,987	2,603
MEAN	117	123	158	444	871	504	330	204	126	95.1	96.4	86.8
MAX	219	203	371	2,410	2,360	1,310	507	249	160	102	184	92
MIN	109	111	112	116	318	315	244	156	102	89	86	84
AC-FT	7,190	7,290	9,740	27,320	50,100	30,980	19,630	12,560	7,490	5,850	5,920	5,160

CAL YR 1967 TOTAL 149,506 MEAN 410 MAX 3,900 MIN 108 AC-FT 296,500
WTR YR 1968 TOTAL 95,407 MEAN 261 MAX 2,410 MIN 84 AC-FT 189,200

11383500 DEER CREEK NEAR VINA, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	102	142	232	790	946	958	904	463	200	137	117
2	86	116	137	230	675	773	880	874	445	196	137	117
3	86	185	129	239	604	670	773	862	428	191	135	117
4	86	183	126	265	554	576	696	773	414	187	134	117
5	86	130	123	286	778	529	1,300	784	404	185	134	117
6	87	117	123	280	994	494	1,040	886	388	185	134	117
7	87	110	123	268	670	463	880	1,010	370	181	134	117
8	86	106	124	253	683	435	795	1,040	358	179	134	117
9	86	106	132	230	1,370	407	768	1,100	379	179	134	117
10	86	108	2,200	214	1,070	382	707	1,160	367	175	132	116
11	89	110	909	312	1,800	358	729	1,190	365	173	132	116
12	149	364	394	2,400	1,980	340	806	1,170	343	169	132	116
13	218	189	319	6,420	1,240	319	773	1,120	313	167	130	114
14	177	156	1,050	2,040	1,110	304	751	1,040	304	165	129	114
15	135	173	1,770	1,010	2,340	301	685	904	343	165	129	112
16	112	158	760	690	1,350	307	690	850	298	163	128	112
17	104	147	421	537	1,010	331	724	834	278	160	128	114
18	99	290	316	540	874	352	856	839	275	158	126	114
19	98	289	265	2,280	762	358	844	806	361	156	124	117
20	97	185	225	6,920	740	376	862	740	280	153	124	116
21	96	154	196	9,970	665	428	934	702	280	153	124	117
22	96	142	185	4,100	590	404	1,020	680	258	147	123	112
23	96	139	310	2,330	790	428	1,130	675	246	153	123	111
24	94	163	1,600	1,610	729	449	940	660	239	151	122	111
25	94	171	1,350	2,120	665	452	800	630	232	147	122	110
26	93	153	656	4,590	568	474	740	608	227	146	122	110
27	93	140	421	2,540	541	525	707	586	223	144	122	110
28	93	134	388	1,810	1,300	604	712	533	216	142	122	110
29	102	130	331	1,290	------	690	828	502	211	139	122	110
30	129	149	280	1,040	------	740	922	491	205	137	120	110
31	112	------	250	868	------	880	------	477	------	137	120	------
TOTAL	3,237	4,799	15,755	57,914	27,242	15,095	25,250	25,430	9,513	5,083	3,969	3,425
MEAN	104	160	508	1,868	973	487	842	820	317	164	128	114
MAX	218	364	2,200	9,970	2,340	946	1,300	1,190	463	200	137	117
MIN	85	102	123	214	541	301	685	477	205	137	120	110
AC-FT	6,420	9,520	31,250	114,900	54,030	29,940	50,080	50,440	18,870	10,080	7,870	6,790

CAL YR 1968 TOTAL 106,988 MEAN 292 MAX 2,410 MIN 84 AC-FT 212,200
WTR YR 1969 TOTAL 196,712 MEAN 539 MAX 9,970 MIN 85 AC-FT 390,200

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	108	112	112	307	1,050	2,380	312	231	191	152	113	99
2	108	112	111	272	910	1,250	308	224	187	149	113	99
3	110	114	112	250	814	934	300	222	185	143	112	99
4	110	116	112	241	755	916	292	222	181	139	112	100
5	110	413	112	220	690	802	288	224	179	137	110	103
6	110	227	112	209	631	700	282	224	179	132	110	102
7	110	177	112	205	582	872	280	227	173	132	110	102
8	116	194	120	250	546	1,660	275	227	173	130	109	100
9	124	165	122	1,650	514	1,140	270	247	191	130	109	99
10	114	144	135	1,550	490	1,040	268	275	214	128	107	98
11	112	135	280	934	470	892	270	260	197	127	106	97
12	111	132	2,070	916	626	780	263	256	175	127	106	98
13	112	130	1,200	2,730	1,020	720	268	251	175	125	104	98
14	116	128	466	6,470	814	680	275	240	203	125	104	98
15	132	124	358	3,000	665	660	272	231	195	125	104	98
16	214	126	272	4,180	844	604	268	227	179	123	104	99
17	225	123	232	3,570	1,200	568	265	229	171	123	104	99
18	160	120	216	2,490	880	518	256	229	164	121	104	99
19	134	118	1,980	1,820	750	486	275	231	158	121	104	100
20	126	120	1,830	1,660	670	466	263	229	152	121	102	102
21	122	118	3,680	4,130	608	438	254	227	150	130	102	100
22	118	118	1,660	4,790	564	421	251	222	149	125	102	99
23	118	117	1,490	8,740	522	400	242	218	145	121	102	98
24	118	117	1,810	8,420	494	388	238	214	143	120	100	98
25	117	116	1,290	3,810	463	379	235	212	141	118	100	95
26	117	116	952	2,680	442	367	247	212	143	118	100	94
27	117	114	702	3,650	424	355	258	212	147	117	100	95
28	116	114	529	2,450	509	343	247	210	170	115	99	97
29	116	112	449	1,860	------	335	238	205	214	115	100	95
30	114	112	388	1,520	------	328	238	201	168	113	100	95
31	114	------	337	1,230	------	322	------	193	------	113	99	------
TOTAL	3,849	4,184	23,351	76,204	18,947	22,144	7,998	7,032	5,192	3,915	3,251	2,955
MEAN	124	139	753	2,458	677	714	267	227	173	126	105	98.5
MAX	225	413	3,680	8,740	1,200	2,380	312	275	214	152	113	103
MIN	108	112	111	205	424	322	235	193	141	113	99	94
AC-FT	7,630	8,300	46,320	151,200	37,580	43,920	15,860	13,950	10,300	7,770	6,450	5,860

CAL YR 1969 TOTAL 204,305 MEAN 560 MAX 9,970 MIN 108 AC-FT 405,200
WTR YR 1970 TOTAL 179,022 MEAN 490 MAX 8,740 MIN 94 AC-FT 355,100

11384000 BIG CHICO CREEK NEAR CHICO, CALIF.

LOCATION.--Lat 39°46'35", long 121°45'10", in Arroyo Chico Grant, Butte County, on right bank 1.8 miles upstream from golf clubhouse in Bidwell Park, 2.6 miles upstream from Lindo channel, and 7 miles northeast of Chico.

DRAINAGE AREA.--72.4 sq mi (revised).

PERIOD OF RECORD.--May 1930 to September 1970. Prior to October 1952, published as Chico Creek near Chico.

GAGE.--Water-stage recorder. Altitude of gage is 300 ft (from topographic map). Prior to Oct. 1, 1955, at site 0.6 mile downstream at different datum.

AVERAGE DISCHARGE.--40 years, 145 cfs (105,100 acre-ft per year); median of yearly mean discharges, 122 cfs (88,390 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (1,600 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Jan. 4, 1966	2100	*2,850	8.25	Feb. 20, 1968	0245	1,600	6.20	Dec. 12, 1969	1745	1,730	6.26
								Dec. 19, 1969	1615	2,040	6.73
Dec. 2, 1966	2030	3,040	8.57	Dec. 10, 1968	1630	1,700	6.34	Dec. 21, 1969	1330	3,440	8.51
Dec. 5, 1966	0230	4,250	10.03	Dec. 15, 1968	1530	2,100	6.91	Dec. 24, 1969	0245	1,840	6.34
Jan. 21, 1967	1615	*5,730	11.50	Dec. 24, 1968	2100	1,610	6.22	Jan. 9, 1970	2030	2,070	6.70
Jan. 29, 1967	0600	4,480	10.09	Jan. 13, 1969	0745	7,170	13.08	Jan. 14, 1970	0730	6,390	12.21
Mar. 16, 1967	1500	3,060	8.17	Jan. 21, 1969	0615	*7,740	13.69	Jan. 16, 1970	1000	2,770	7.84
				Jan. 26, 1969	0430	2,920	7.77	Jan. 21, 1970	1645	3,060	8.20
Jan. 10, 1968	0630	1,620	6.23	Feb. 12, 1969	0745	2,590	7.36	Jan. 24, 1970	-	*9,270	a15.10
Jan. 15, 1968	0330	*1,900	6.63	Feb. 15, 1969	1000	2,750	7.56	Jan. 27, 1970	1715	1,730	6.56
								Mar. 1, 1970	0845	2,030	6.99

a From floodmarks.

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Aug. 15-21, 1966	18	1969	Oct. 1-5, 7-10, 1968	21
1967	Oct. 1, 4-27, 30, 1966	21	1970	Sept.26, 1970	19
1968	Sept.29, 30, 1968	20			

Period of record: Maximum discharge, 9,580 cfs Jan. 5, 1965 (gage height, 15.36 ft); minimum, 10 cfs Dec. 11, 1932, Aug. 15, 1939, Sept. 18, 1947.

REMARKS.--Records good. No storage or large diversion above station. No gage-height record Jan. 23-27, 1970. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	27	60	144	181	156	122	50	32	25	22	21
2	25	27	55	114	168	146	121	48	31	25	21	21
3	25	28	52	99	159	132	115	46	32	25	20	20
4	25	28	50	1,060	401	121	108	45	32	25	20	20
5	25	27	49	1,970	397	119	101	44	31	25	19	19
6	26	28	47	960	449	118	96	44	32	24	19	19
7	25	28	45	498	370	122	92	43	34	23	19	20
8	25	54	44	394	243	125	87	43	32	23	19	21
9	25	37	43	334	197	130	86	43	31	23	19	21
10	25	30	42	261	167	163	132	48	30	24	19	21
11	25	29	44	205	144	181	129	45	29	23	19	21
12	25	35	51	168	129	172	157	41	31	24	20	21
13	25	53	46	145	117	212	144	40	28	24	19	21
14	25	168	44	131	108	222	126	39	27	24	19	22
15	26	143	43	121	101	209	111	38	26	23	18	22
16	26	81	42	114	94	198	103	37	27	23	18	22
17	26	180	41	108	89	174	98	37	27	23	18	21
18	26	618	39	101	86	158	95	35	26	22	18	26
19	26	252	41	95	120	171	85	34	26	22	18	25
20	26	154	40	87	148	163	79	34	26	22	18	23
21	25	101	39	81	139	152	75	33	26	22	18	21
22	25	77	40	78	136	143	70	33	27	22	19	21
23	25	67	40	74	173	134	66	33	27	21	19	21
24	25	232	67	71	205	129	62	32	27	21	19	21
25	25	225	111	67	206	125	59	32	27	21	19	22
26	25	149	76	65	205	122	58	31	26	21	19	22
27	26	116	64	62	180	121	56	31	25	21	20	21
28	25	96	198	60	165	122	55	31	25	20	20	21
29	25	79	325	92	------	123	53	30	25	21	20	20
30	26	68	245	200	------	122	52	30	25	21	20	21
31	26	------	192	162	------	123	------	32	------	22	22	------
TOTAL	785	3,237	2,315	8,121	5,277	4,608	2,793	1,182	850	705	597	638
MEAN	25.3	108	74.7	262	188	149	93.1	38.1	28.3	22.7	19.3	21.3
MAX	26	618	325	1,970	449	222	157	50	34	25	22	26
MIN	25	27	39	60	86	118	52	30	25	20	18	19
AC-FT	1,560	6,420	4,590	16,110	10,470	9,140	5,540	2,340	1,690	1,400	1,180	1,270

CAL YR 1965 TOTAL 56,053 MEAN 154 MAX 5,480 MIN 24 AC-FT 111,200
WTR YR 1966 TOTAL 31,108 MEAN 85.2 MAX 1,970 MIN 18 AC-FT 61,700

11384000 BIG CHICO CREEK NEAR CHICO, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	22	404	51	1,630	89	299	338	126	44	28	24
2	22	22	1,300	49	920	86	282	318	118	43	29	23
3	22	22	1,100	48	595	84	286	308	107	42	29	23
4	21	22	1,090	47	441	81	297	305	98	41	28	24
5	21	22	2,450	47	360	77	353	308	97	41	28	24
6	21	34	845	46	307	74	984	298	95	41	28	23
7	21	49	460	46	268	72	926	306	90	40	28	23
8	21	27	319	46	239	70	632	340	86	39	28	23
9	21	24	242	46	213	69	509	368	84	38	27	23
10	21	24	225	46	192	78	498	401	80	38	27	23
11	21	25	184	46	175	462	502	367	75	37	27	24
12	21	44	160	46	163	382	440	344	77	37	27	23
13	21	37	152	47	155	325	406	300	76	36	27	23
14	21	32	152	45	150	263	399	271	72	36	26	23
15	21	96	136	47	138	269	382	263	69	35	26	23
16	21	328	123	45	132	2,330	349	270	67	35	26	23
17	21	80	111	46	125	1,630	423	276	64	35	26	24
18	21	49	101	47	119	947	476	268	60	34	26	26
19	21	215	94	47	114	684	493	257	61	34	25	25
20	21	850	88	287	107	585	472	242	59	33	30	24
21	21	421	81	4,130	100	528	434	229	57	33	25	23
22	21	418	77	2,240	96	472	395	214	55	33	25	23
23	21	196	71	878	93	578	380	200	54	32	25	24
24	21	120	68	675	94	533	395	188	53	32	25	24
25	21	85	65	418	127	452	407	172	51	32	25	24
26	21	67	62	386	107	388	419	159	49	31	27	23
27	21	57	59	447	99	342	547	146	48	31	26	23
28	22	77	58	1,240	93	316	514	137	48	31	24	23
29	22	498	56	3,260	------	288	440	129	45	31	24	23
30	21	278	54	2,340	------	292	377	121	44	31	24	24
31	22	------	52	3,030	------	322	------	114	------	29	24	------
TOTAL	656	4,241	10,439	20,219	7,352	13,168	13,716	7,957	2,165	1,105	820	705
MEAN	21.2	141	337	652	263	425	457	257	72.2	35.6	26.5	23.5
MAX	22	850	2,450	4,130	1,630	2,330	984	401	126	44	30	26
MIN	21	22	52	45	93	69	282	114	44	29	24	23
AC-FT	1,300	8,410	20,710	40,100	14,580	26,120	27,210	15,780	4,290	2,190	1,630	1,400

CAL YR 1966 TOTAL 40,107 MEAN 110 MAX 2,450 MIN 18 AC-FT 79,550
WTR YR 1967 TOTAL 82,543 MEAN 226 MAX 4,130 MIN 21 AC-FT 163,700

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	27	66	55	141	189	130	44	32	24	24	22
2	30	26	46	50	217	169	128	43	29	24	23	22
3	65	26	97	45	282	151	118	42	27	24	23	22
4	30	26	137	40	274	137	108	42	30	24	22	22
5	30	27	252	40	277	129	102	38	31	24	22	22
6	29	28	93	40	296	121	96	38	39	24	22	22
7	28	28	142	40	332	120	91	39	38	24	22	22
8	27	28	103	45	333	130	87	40	34	24	22	22
9	27	29	72	70	339	114	83	39	32	24	22	22
10	26	28	60	877	402	104	80	39	31	24	22	22
11	28	29	54	267	365	97	78	38	30	23	22	22
12	27	30	50	145	318	116	76	38	30	23	22	22
13	27	30	47	114	296	281	74	48	29	23	22	22
14	26	44	40	367	261	365	69	55	29	23	23	23
15	26	40	42	1,270	225	320	68	45	29	23	23	23
16	26	33	50	536	227	658	67	42	29	23	24	22
17	26	33	60	325	968	664	64	41	29	23	23	22
18	26	34	55	217	835	459	62	39	28	22	28	22
19	26	77	58	159	675	350	61	39	27	22	25	21
20	26	44	54	127	1,400	285	59	41	27	22	43	22
21	26	36	48	107	1,320	241	58	39	27	22	40	22
22	28	33	40	96	956	215	56	44	27	22	32	22
23	28	34	45	89	707	196	55	46	26	22	27	22
24	27	35	50	82	558	181	54	44	25	21	26	22
25	27	35	55	77	435	175	52	40	24	22	25	21
26	27	31	65	72	351	168	51	38	24	22	25	21
27	27	33	80	69	294	155	50	37	24	22	25	21
28	27	34	85	67	248	144	48	36	24	22	24	21
29	27	66	75	364	214	137	47	34	24	22	24	20
30	27	74	65	376	------	134	45	33	23	22	22	20
31	27	------	60	186	------	130	------	32	------	23	22	------
TOTAL	878	1,078	2,246	6,414	13,546	6,835	2,217	1,253	858	709	771	653
MEAN	28.3	35.9	72.5	207	467	220	73.9	40.4	28.6	22.9	24.9	21.8
MAX	65	77	252	1,270	1,400	664	130	55	39	24	43	23
MIN	24	26	40	40	141	97	45	32	23	21	22	20
AC-FT	1,740	2,140	4,450	12,720	26,870	13,560	4,400	2,490	1,700	1,410	1,530	1,300

CAL YR 1967 TOTAL 71,409 MEAN 196 MAX 4,130 MIN 23 AC-FT 141,600
WTR YR 1968 TOTAL 37,458 MEAN 102 MAX 1,400 MIN 20 AC-FT 74,300

11384000 BIG CHICO CREEK NEAR CHICO, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	34	48	135	359	795	299	142	52	38	29	26
2	21	53	47	123	324	587	284	140	51	36	29	25
3	21	91	45	121	296	492	278	134	54	31	29	26
4	21	72	43	135	280	416	248	133	52	35	29	30
5	21	53	42	160	385	374	601	125	52	35	29	25
6	22	46	41	162	495	346	614	119	52	36	29	25
7	21	41	39	149	390	317	504	121	52	39	29	25
8	21	39	41	134	356	287	430	121	52	36	29	25
9	21	37	44	118	1,270	260	370	121	55	36	29	25
10	21	38	778	104	1,170	233	317	121	60	39	29	28
11	23	37	422	173	1,650	208	284	119	64	32	29	25
12	64	102	180	1,690	2,120	190	265	118	59	34	28	25
13	63	63	126	5,670	1,240	175	250	113	54	34	28	25
14	57	51	400	2,210	909	163	238	107	52	35	28	25
15	41	56	1,030	975	2,030	156	218	103	48	35	27	25
16	33	54	574	575	1,470	159	198	94	51	34	26	25
17	30	52	271	409	965	170	188	89	46	34	27	25
18	28	78	174	353	730	193	188	86	46	33	27	25
19	28	90	133	1,480	579	205	180	82	50	32	27	25
20	28	66	106	4,390	506	213	174	79	46	32	27	25
21	27	54	87	6,140	435	257	174	77	46	32	26	26
22	26	46	76	2,810	383	243	174	72	43	32	26	25
23	26	42	97	1,420	480	240	235	69	44	33	26	25
24	26	47	769	925	485	238	225	68	43	33	26	25
25	26	50	1,140	1,270	422	235	192	62	46	32	26	25
26	26	47	603	2,260	362	230	176	62	37	31	26	25
27	26	43	334	1,380	326	235	162	64	38	31	26	25
28	26	41	282	913	690	254	152	62	38	30	26	25
29	34	40	234	630	------	272	146	60	43	30	26	25
30	53	51	188	507	------	281	152	60	39	30	26	25
31	38	------	157	400	------	299	------	56	------	30	26	------
TOTAL	940	1,614	8,551	37,921	21,107	8,723	7,916	2,979	1,465	1,040	850	761
MEAN	30.3	53.8	276	1,223	754	281	264	96.1	48.8	33.5	27.4	25.4
MAX	64	102	1,140	6,140	2,120	795	614	142	64	39	29	30
MIN	21	34	39	104	280	156	146	56	37	30	26	25
AC-FT	1,860	3,200	16,960	75,220	41,870	17,300	15,700	5,910	2,910	2,060	1,690	1,510

CAL YR 1968 TOTAL 44,361 MEAN 121 MAX 1,400 MIN 20 AC-FT 87,990
WTR YR 1969 TOTAL 93,867 MEAN 257 MAX 6,140 MIN 21 AC-FT 186,200

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	29	31	115	444	1,500	90	57	39	32	28	25
2	25	28	30	102	376	941	88	56	38	32	28	24
3	25	29	31	92	330	611	85	55	37	31	27	24
4	25	29	31	85	300	547	83	54	35	31	27	24
5	26	116	31	79	270	465	80	53	33	31	27	26
6	26	64	30	74	241	380	79	52	33	30	27	26
7	26	53	31	71	218	341	78	52	32	30	27	26
8	28	68	35	83	200	567	76	52	32	30	27	26
9	31	52	38	794	184	485	74	54	36	28	27	25
10	28	43	46	1,220	170	451	73	57	38	29	27	25
11	28	39	154	665	159	389	74	55	37	29	27	25
12	28	37	1,160	681	213	341	70	55	35	30	26	25
13	29	35	623	2,300	392	304	70	54	35	30	27	28
14	30	34	191	4,980	387	276	71	52	37	30	26	25
15	42	33	119	2,060	320	249	75	50	36	29	26	25
16	76	34	87	2,240	394	227	75	48	34	30	27	25
17	44	34	69	1,890	749	207	73	46	33	29	25	24
18	34	33	62	1,270	543	192	72	45	32	29	27	24
19	31	33	943	948	423	180	69	45	32	29	27	23
20	30	33	905	859	357	168	67	45	31	29	26	23
21	29	33	2,030	2,650	315	157	66	45	32	29	26	22
22	29	33	892	2,280	275	149	65	44	34	29	25	22
23	29	34	867	4,500	244	140	64	43	33	29	26	21
24	29	35	1,360	6,000	223	131	61	43	32	29	25	21
25	30	35	752	2,800	202	122	61	42	32	28	25	20
26	30	34	469	1,800	184	113	62	41	32	29	25	20
27	30	31	326	2,600	172	107	64	40	32	28	25	19
28	30	30	239	1,310	216	103	62	41	37	28	25	21
29	29	30	187	939	------	99	60	41	42	28	25	21
30	29	30	153	703	------	97	58	40	34	27	25	21
31	29	------	129	545	------	94	------	39	------	28	24	------
TOTAL	960	1,181	12,051	46,735	8,501	10,133	2,145	1,496	1,035	910	812	706
MEAN	31.0	39.4	389	1,508	304	327	71.5	48.3	34.5	29.4	26.2	23.5
MAX	76	116	2,030	6,000	749	1,500	90	57	42	32	28	28
MIN	25	28	30	71	159	94	58	39	31	27	24	19
AC-FT	1,900	2,340	23,900	92,700	16,860	20,100	4,250	2,970	2,050	1,800	1,610	1,400

CAL YR 1969 TOTAL 96,954 MEAN 266 MAX 6,140 MIN 25 AC-FT 192,300
WTR YR 1970 TOTAL 86,665 MEAN 237 MAX 6,000 MIN 19 AC-FT 171,900

11384350 MUD CREEK NEAR CHICO, CALIF.

LOCATION.--Lat 39°47'02", long 121°53'06", in SW¼SE¼ sec.5, T.22 N., R.1 E., Butte County, on left bank 0.1 mile upstream from bridge on State Highway 99E and 5 miles northwest of Chico.

DRAINAGE AREA.--48.9 sq mi.

PERIOD OF RECORD.--October 1965 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 170 ft (from topographic map).

AVERAGE DISCHARGE.--5 years, 66.7 cfs (48,320 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 4, 1966	2,400	7.86	Long periods	0
1967	Jan. 21, 1967	3,800	9.65	do.	0
1968	Jan. 29, 1968	5,950	10.28	do.	0
1969	Jan. 13, 1969	10,400	a12.94	do.	0
1970	Jan. 23, 1970	10,300	12.46	Many days	0

a In gage well; 12.0 ft, from floodmarks.

Period of record: Maximum discharge, 10,400 cfs Jan. 13, 1969 (gage height, 12.94 ft in gage well, 12.0 ft, from floodmarks); no flow for several months in each year.

Flood of Dec. 22, 1964, reached a stage of 13.23 ft (discharge, 9,880 cfs); maximum stage recorded since reconstruction of the channel, 13.55 ft Jan. 15, 1965 (backwater from debris).

REMARKS.--No storage or diversion above station. During periods of floodflows on Big Chico Creek, floodwaters are diverted at Mud Creek diversion dam in sec.18, T.22 N., R.2 E., to Lindo channel and Mud Creek; however, most of the water is diverted to Mud Creek.

COOPERATION.--Records furnished by California Department of Water Resources and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	4.3	25	190	27	6.5	1.3		0		
2		0	4.1	19	66	24	5.7	1.1		0		
3		0	3.9	17	106	21	5.7	.90		0		
4		0	3.7	410	443	18	6.0	.90		0		
5		0	3.5	930	110	18	6.0	1.1		0		
6		0	3.5	157	69	18	5.4	.80		0		
7		0	3.3	71	48	17	5.2	.70		0		
8		0	3.3	76	36	15	4.9	.70		0		
9		0	3.3	50	28	14	5.4	.70		0		
10		0	3.1	36	23	15	7.1	1.2		0		
11		0	3.5	28	18	14	6.8	.70		0		
12		0	21	22	15	13	7.5	.70		0		
13		1.3	11	18	13	16	6.8	.30		0		
14		88	7.1	15	12	14	5.7	.10		0		
15		86	6.5	14	11	14	4.9	.10		0		
16		26	5.2	12	9.2	14	4.6	.10		.10		
17		108	4.6	11	8.8	12	4.3	.90		0		
18		158	4.3	9.5	8.5	12	4.6	1.2		0		
19		56	4.6	9.2	17	15	3.9	1.2		.50		
20		22	4.9	8.2	16	15	3.5	2.7		.10		
21		12	4.3	8.2	13	13	3.3	1.6		0		
22		7.8	4.3	8.2	12	13	3.1	.10		.70		
23		6.8	4.3	8.2	16	12	2.9	0		3.9		
24		11	7.8	7.5	75	11	2.7	.40		3.9		
25		13	23	6.8	69	10	2.3	.70		3.7		
26		9.5	14	7.1	89	9.5	2.0	.50		4.1		
27		8.2	12	6.5	38	9.2	1.8	0		.70		
28		6.8	157	6.5	30	8.8	1.8	0		0		
29		6.0	94	192	---	8.5	1.6	0		0		
30		5.4	53	96	---	7.8	1.4	0		0		
31		---	37	86	---	7.5	---	0	---	0		---
TOTAL	0	631.8	519.4	2370.9	1589.5	436.3	133.4	20.70	0	17.70	0	0
MEAN	0	21.1	16.8	76.5	56.8	14.1	4.45	.67	0	.57	0	0
MAX	0	158	157	930	443	27	7.5	2.7	0	4.1	0	0
MIN	0	0	3.1	6.5	8.5	7.5	1.4	0	0	0	0	0
AC-FT	0	1250	1030	4700	3150	865	265	41	0	35	0	0

WTR YR 1966 TOTAL 5719.70 MEAN 15.7 MAX 930 MIN 0 AC-FT 11350

11384350 MUD CREEK NEAR CHICO, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	182	3.7	555	14	101	69	13			
2		0	929	3.5	241	13	66	58	12			
3		0	326	3.3	165	13	60	51	10			
4		0	698	3.5	118	12	52	47	8.2			
5		0	1010	3.3	87	10	87	42	8.2			
6		0	296	2.9	70	9.3	768	38	8.2			
7		0	88	2.7	60	9.3	353	35	7.6			
8		0	50	2.7	48	8.8	168	33	6.6			
9		0	33	2.5	42	8.5	118	34	6.3			
10		0	51	2.5	37	8.8	120	37	6.0			
11		0	33	2.5	34	60	180	34	5.6			
12		0	24	2.3	30	164	111	37	6.0			
13		0	29	2.3	28	96	86	30	5.6			
14		0	31	2.1	26	61	73	27	4.8			
15		3.1	20	2.0	24	52	62	25	4.5			
16		33	16	2.0	22	437	51	24	3.9			
17		8.2	13	2.0	21	162	144	22	3.4			
18		3.9	11	2.0	20	110	152	20	3.4			
19		629	9.9	2.0	19	99	332	20	3.2			
20		633	8.8	525	18	93	213	18	5.0			
21		75	8.2	2330	16	81	192	17	2.8			
22		53	7.1	1140	15	60	160	16	2.4			
23		26	7.8	152	15	57	166	14	2.2			
24		17	8.2	462	16	48	202	13	2.4			
25		12	6.5	215	28	39	128	13	1.8			
26		10	6.0	183	19	36	114	12	1.4			
27		8.8	5.2	403	16	33	229	11	1.2			
28		184	4.6	774	14	34	136	11	1.4			
29		385	4.6	1380	---	33	108	11	.60			
30		63	4.3	1460	---	87	86	10	0			
31		---	3.9	1290	---	202	---	10	---			---
TOTAL	0	2144.0	3925.1	10363.8	1804	2150.7	4818	839	147.70	0	0	0
MEAN	0	71.5	127	334	64.4	69.4	161	27.1	4.92	0	0	0
MAX	0	633	1010	2330	555	437	768	69	13	0	0	0
MIN	0	0	3.9	2.0	14	8.5	51	10	0	0	0	0
AC-FT	0	4250	7790	20560	3580	4270	9560	1660	293	0	0	0

CAL YR 1966 TOTAL 10637.60 MEAN 29.1 MAX 1010 MIN 0 AC-FT 21100
WTR YR 1967 TOTAL 26192.30 MEAN 71.8 MAX 2330 MIN 0 AC-FT 51950

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	60	.80	96	24	18	2.9	0	0	0	0
2		0	6.9	.70	271	22	17	3.0	0	0	.30	0
3		0	225	.60	135	20	15	2.4	0	0	0	0
4		0	49	.60	89	19	14	2.5	0	0	0	.10
5		0	42	.60	65	18	13	2.1	0	0	0	.10
6		0	12	.70	50	17	12	2.0	0	0	.10	0
7		0	30	.80	41	18	11	1.9	.10	0	.30	0
8		0	18	1.0	35	25	10	1.6	.10	.10	.30	0
9		0	7.3	3.3	31	20	9.0	1.8	0	.10	.60	0
10		0	3.9	686	30	18	8.4	1.3	0	.20	.60	0
11		0	2.6	69	27	17	7.7	1.3	0	0	.10	0
12		0	1.6	35	23	26	7.4	1.4	0	0	.30	0
13		0	1.1	51	20	138	6.5	1.5	0	0	.60	0
14		0	1.2	756	18	122	6.0	3.2	0	0	.40	0
15		0	1.0	604	16	74	5.7	2.0	.10	0	.30	0
16		0	.60	136	35	485	5.5	1.3	0	0	.10	0
17		0	.70	67	507	173	5.2	1.0	0	0	.20	0
18		0	1.3	40	146	102	4.9	.80	0	0	0	0
19		3.6	1.4	26	436	73	4.8	1.0	0	0	.10	0
20		.20	1.2	18	513	57	4.6	1.3	0	0	.40	0
21		0	.80	13	426	47	4.3	1.1	0	0	.60	0
22		0	.60	9.6	198	40	4.0	1.4	0	0	.70	0
23		0	.60	7.0	123	35	4.2	1.6	0	0	.50	0
24		0	.60	5.4	82	31	4.4	1.0	0	0	.50	0
25		0	.70	4.4	60	29	4.3	.80	0	0	.90	0
26		0	.70	3.6	46	26	3.7	.60	0	.10	.20	0
27		0	.60	2.6	38	24	3.3	.30	0	.10	.40	0
28		0	.70	2.4	31	22	3.0	.10	0	.10	0	0
29		34	.60	2060	27	20	3.0	0	0	.20	0	0
30		36	.60	726	---	19	3.0	0	0	.10	0	0
31		---	.80	159	---	18	---	0	---	0	0	---
TOTAL	0	73.80	474.10	5490.10	3615	1779	222.9	43.20	.30	1.00	8.50	.20
MEAN	0	2.46	15.3	177	125	57.4	7.43	1.39	.010	.032	.27	.007
MAX	0	36	225	2060	513	485	18	3.2	.10	.20	.90	.10
MIN	0	0	.60	.60	16	17	3.0	0	0	0	0	0
AC-FT	0	146	940	10890	7170	3530	442	86	.6	2.0	17	.4

CAL YR 1967 TOTAL 20671.10 MEAN 56.6 MAX 2330 MIN 0 AC-FT 41000
WTR YR 1968 TOTAL 11708.10 MEAN 32.0 MAX 2060 MIN 0 AC-FT 23220

11384350 MUD CREEK NEAR CHICO, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	10	42	352	299	32	12	1.4	0		0
2		.10	7.2	36	344	220	32	11	1.5	0		0
3		8.6	5.8	32	330	182	38	11	1.4	0		0
4		4.3	5.1	27	318	141	35	11	1.2	0		0
5		1.6	4.8	24	599	114	108	9.4	1.2	0		0
6		.50	4.4	22	600	96	120	8.5	1.2	0		0
7		.10	4.5	20	393	82	95	8.1	1.4	2.8		0
8		0	8.9	18	417	69	81	7.6	1.8	9.6		0
9		0	17	16	856	59	72	7.6	3.4	.40		.10
10		0	484	15	502	50	64	7.0	3.8	0		0
11		0	75	147	814	45	56	6.6	6.1	0		.20
12		2.5	31	1900	877	42	51	6.0	4.6	0		.20
13		3.1	44	6270	487	40	46	6.0	2.8	0		0
14		4.6	886	1070	638	36	43	6.1	2.2	0		0
15		25	514	515	1210	34	39	6.0	1.7	0		0
16		6.8	139	421	502	33	35	5.5	1.0	0		0
17		4.1	64	363	376	34	32	5.2	.50	0		0
18		37	45	452	336	32	30	4.9	.70	0		0
19		17	37	902	292	31	26	4.8	.90	0		0
20		7.1	30	1500	286	35	24	4.5	1.1	0		0
21		4.6	23	5470	252	65	22	4.4	.90	0		0
22		3.4	20	1130	215	45	21	4.2	.40	0		0
23		2.9	157	596	327	39	35	4.1	.20	0		0
24		3.4	1070	495	355	37	26	3.9	0	0		0
25		5.5	544	667	234	35	20	3.6	0	0		0
26		4.0	180	723	196	34	18	3.4	0	0		0
27		3.4	95	485	183	34	16	3.4	0	0		0
28		2.8	237	429	446	34	14	3.1	0	0		0
29		3.5	132	391	---	34	13	2.4	0	0		0
30		28	75	421	---	34	12	2.0	0	0		0
31		---	55	363	---	34	---	1.7	---	0		---
TOTAL	0	183.90	5004.7	24962	12737	2099	1256	185.0	41.40	12.80	0	.50
MEAN	0	6.13	161	805	455	67.7	41.9	5.97	1.38	.41	0	.017
MAX	0	37	1070	6270	1210	299	120	12	6.1	9.6	0	.20
MIN	0	0	4.4	15	183	31	12	1.7	0	0	0	0
AC-FT	0	365	9930	49510	25260	4160	2490	367	82	25	0	1.0

CAL YR 1968 TOTAL 16348.80 MEAN 44.7 MAX 2060 MIN 0 AC-FT 32430
WTR YR 1969 TOTAL 46482.30 MEAN 127 MAX 6270 MIN 0 AC-FT 92200

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	.10	8.8	118	401	13	5.2	0	1.4	0	0
2	0	0	.10	7.0	97	185	12	4.7	0	.60	0	0
3	0	0	.20	6.0	81	136	12	4.4	0	.20	0	.40
4	0	0	.20	5.3	73	334	11	4.3	0	.30	0	.40
5	0	2.0	.20	4.3	62	203	11	4.5	0	.10	.10	.30
6	0	2.8	.20	3.7	54	130	10	8.8	0	.30	0	.20
7	0	1.0	.30	3.6	47	115	10	5.4	0	.40	.10	.10
8	0	.50	.80	38	42	265	9.7	5.1	0	.30	.20	.20
9	0	.80	1.2	1210	38	142	9.2	5.9	2.4	.50	.10	0
10	0	.40	1.2	362	33	157	8.7	5.6	1.8	.40	0	0
11	0	.10	8.4	176	30	115	9.2	6.7	.10	.20	0	.30
12	0	0	387	239	53	89	8.4	8.4	0	.10	.10	.30
13	0	0	186	813	332	71	8.7	6.9	0	5.5	0	0
14	0	0	23	3990	183	60	9.4	5.4	0	1.8	0	0
15	0	0	11	813	113	51	8.8	3.9	0	.40	0	.20
16	.80	0	6.9	918	211	44	8.5	8.7	0	.10	0	0
17	0	0	4.8	430	228	38	8.4	11	.10	.10	.10	0
18	0	0	9.6	275	136	33	7.8	8.8	.20	.10	.60	0
19	0	0	1220	294	102	29	7.7	2.7	.30	0	.90	0
20	0	0	488	326	80	26	7.6	1.9	.10	0	.80	0
21	0	0	589	1430	65	24	7.5	1.6	.10	0	.80	0
22	0	0	192	640	52	22	7.0	1.3	0	0	.50	0
23	0	0	871	1880	45	20	6.7	.90	0	0	.40	0
24	0	0	791	4520	40	19	6.5	.60	.10	0	0	0
25	0	0	221	582	34	18	6.4	.40	.20	0	.10	0
26	0	0	105	348	30	17	6.4	.30	.40	0	.30	0
27	0	.10	55	705	27	16	6.5	.30	.70	0	0	0
28	0	.10	29	280	39	15	6.2	.50	0	0	0	0
29	0	.10	19	209	---	15	5.8	.30	3.5	0	0	0
30	0	.10	14	169	---	14	5.4	.10	4.4	0	0	0
31	0	---	11	140	---	13	---	0	---	0	0	---
TOTAL	.80	8.00	5246.20	20825.7	2445	2817	255.5	124.60	14.40	12.80	5.10	2.40
MEAN	.026	.27	169	672	87.3	90.9	8.52	4.02	.48	.41	.16	.080
MAX	.80	2.8	1220	4520	332	401	13	11	4.4	5.5	.90	.40
MIN	0	0	.10	3.6	27	13	5.4	0	0	0	0	0
AC-FT	1.6	16	10410	41310	4850	5590	507	247	29	25	10	4.8

CAL YR 1969 TOTAL 46548.70 MEAN 128 MAX 6270 MIN 0 AC-FT 92330
WTR YR 1970 TOTAL 31757.50 MEAN 87.0 MAX 4520 MIN 0 AC-FT 62990

11384600 LITTLE STONY CREEK ABOVE EAST PARK RESERVOIR, NEAR LODOGA, CALIF.

LOCATION.--Lat 39°17'48", long 122°32'22", in SE¼NW¼ sec.28, T.17 N., R.6 W., Colusa County, on left bank 1.1 miles upstream from county bridge on Lodoga-Stonyford Road, 1.4 miles downstream from Frenzel Creek, and 2.8 miles southwest of Lodoga.

DRAINAGE AREA.--45.6 sq mi.

PERIOD OF RECORD.--September 1966 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 1,300 ft (from topographic map).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (1,000 cfs), September 1966 to September 1970

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
1966	-	-	-	Dec. 15, 1968	1045	1,260	7.35	Dec. 21, 1969	0630	1,060	6.81
				Jan. 13, 1969	0845	1,780	8.30	Jan. 9, 1970	1500	2,280	9.14
Dec. 2, 1966	1600	1,060	7.52	Jan. 21, 1969	0615	*1,790	8.30	Jan. 14, 1970	0900	2,220	9.04
Dec. 4, 1966	2245	1,300	7.88	Jan. 26, 1969	0230	1,370	7.46	Jan. 16, 1970	0530	2,310	9.19
Jan. 21, 1967	1015	*2,300	9.15	Feb. 11, 1969	0945	1,130	6.97	Jan. 21, 1970	0315	1,670	8.06
Jan. 29, 1967	0530	1,540	7.89					Jan. 23, 1970	2145	*4,000	11.39
				Dec. 19, 1969	1100	1,130	6.96	Jan. 27, 1970	0200	1,430	7.58
Jan. 14, 1968	2300	*998	6.79								

Annual minimum daily discharge, September 1966 to September 1970

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	-	-	1969	Sept.13, 1969	.84
1967	Oct. 1, 2, 1966	.70	1970	Aug. 19, 21, 22, 1970	.30
1968	Sept.27, 1968	.39			

Period of record: Maximum discharge, 4,000 cfs Jan. 23, 1970 (gage height, 11.39 ft), from rating curve extended above 1,400 cfs; minimum daily, 0.30 cfs Aug. 19, 21, 22, 1970.

REMARKS.--Records good. No gage-height record Jan. 5-15, 1968. No storage or diversion above station. Water-quality records for the water years 1967-70 are published in reports of the Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.70	1.1	53	27	526	36	74	103	47	15	4.8	1.6
2	.70	1.2	353	27	370	35	70	96	138	14	4.5	1.6
3	.80	1.2	219	26	267	34	67	96	87	13	4.2	1.4
4	.80	1.2	576	26	208	33	66	95	62	13	3.9	1.5
5	.80	1.2	647	25	172	32	66	96	67	13	3.8	1.6
6	.80	2.1	347	25	148	30	93	94	59	12	3.7	1.6
7	.80	2.5	202	24	130	29	91	100	54	12	3.7	1.5
8	.80	2.0	138	24	112	28	82	110	50	12	3.6	1.5
9	.80	1.7	110	24	101	27	79	115	47	12	3.4	1.6
10	.80	1.6	118	23	93	49	89	112	44	11	3.3	1.7
11	.80	1.6	95	23	84	76	86	101	41	10	3.2	1.6
12	.80	3.0	85	23	79	81	79	93	41	9.9	3.0	1.5
13	.80	2.7	83	23	74	73	76	86	38	9.9	2.8	1.4
14	.80	2.7	73	22	70	61	73	83	35	9.5	2.8	1.4
15	.90	9.7	64	22	66	118	72	84	33	9.2	2.6	1.3
16	.90	20	57	22	63	480	67	87	31	9.1	2.5	1.2
17	.90	4.2	53	21	60	234	96	90	29	8.9	2.4	1.3
18	.90	2.7	48	21	56	176	100	91	28	8.6	2.3	2.2
19	1.0	100	45	21	54	140	91	88	27	8.5	2.1	1.7
20	1.0	206	42	304	50	150	88	83	26	8.3	2.1	1.4
21	1.0	119	40	1,530	47	138	126	78	25	8.1	2.1	1.2
22	1.0	78	38	660	47	126	138	73	23	7.7	2.2	1.2
23	1.1	40	36	320	45	134	191	67	22	7.4	2.0	1.3
24	1.1	31	35	367	45	116	234	62	21	7.2	2.0	1.3
25	1.1	26	33	275	44	107	217	58	20	6.8	1.9	1.2
26	1.1	24	32	628	40	98	187	54	19	6.5	2.2	1.2
27	1.1	23	31	650	39	91	163	50	18	6.2	2.4	1.0
28	1.1	57	30	875	37	86	144	47	17	6.0	2.0	.97
29	1.1	84	30	1,120	------	79	126	45	16	5.7	1.8	1.1
30	1.1	48	29	922	------	88	112	42	15	5.4	1.8	1.2
31	1.1	------	28	850	------	82	------	40	------	5.0	1.6	------
TOTAL	28.50	898.4	3,770	8,950	3,127	3,067	3,243	2,519	1,180	290.9	86.7	42.27
MEAN	.92	29.9	122	289	112	98.9	108	81.3	39.3	9.38	2.80	1.41
MAX	1.1	206	647	1,530	526	480	234	115	138	15	4.8	2.2
MIN	.70	1.1	28	21	37	27	66	40	15	5.0	1.6	.97
AC-FT	57	1,780	7,480	17,750	6,200	6,080	6,430	5,000	2,340	577	172	84

WTR YR 1967 TOTAL 27,202.77 MEAN 74.5 MAX 1,530 MIN .70 AC-FT 53,960

11384600 LITTLE STONY CREEK ABOVE EAST PARK RESERVOIR, NEAR LODOGA, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FFET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.8	6.3	7.7	70	95	57	17	8.5	2.3	.79	1.1
2	3.3	1.8	5.0	7.5	210	86	53	17	8.2	2.3	.78	1.0
3	5.3	1.8	56	7.1	208	78	47	17	8.2	2.3	.70	1.1
4	2.8	1.9	45	7.0	142	71	45	16	8.2	2.2	.64	1.0
5	2.6	2.1	74	7.0	124	68	43	16	8.9	2.1	.62	.99
6	2.6	2.1	20	6.8	124	63	41	16	9.2	1.9	.62	1.0
7	2.3	2.1	69	6.7	118	63	39	15	8.5	1.6	.61	1.0
8	2.1	2.1	24	7.6	103	63	37	15	7.8	1.6	.59	.84
9	2.1	2.3	15	17	96	56	35	15	7.5	1.7	.67	.81
10	2.1	2.3	12	70	91	51	34	14	7.2	1.6	.62	.80
11	2.1	2.5	10	28	81	47	33	15	6.8	1.6	.58	.81
12	2.0	2.5	9.1	23	73	108	33	15	6.2	1.4	.58	.83
13	2.0	3.6	7.4	70	72	113	31	15	5.9	1.5	.64	.81
14	1.8	17	7.2	530	66	113	29	15	5.9	1.7	.78	.81
15	1.8	5.3	8.5	438	61	99	29	14	5.7	1.8	.95	.82
16	1.8	4.0	7.5	152	172	194	28	14	5.1	1.7	.96	.77
17	1.8	3.5	7.8	93	452	154	27	13	4.8	1.5	.90	.61
18	1.8	3.5	25	76	267	127	26	13	4.6	1.4	.86	.55
19	1.8	3.5	16	59	610	108	26	12	4.1	1.3	.91	.54
20	1.9	3.5	11	51	624	95	25	13	4.1	1.2	2.0	.56
21	1.9	3.4	8.7	46	480	86	25	12	3.9	1.1	5.6	.63
22	2.1	3.5	7.3	41	340	78	23	12	3.7	1.1	3.9	.67
23	2.2	3.5	7.3	38	272	74	23	12	3.3	.97	2.2	.64
24	2.1	3.5	8.5	36	225	69	22	12	3.1	1.0	1.7	.58
25	2.0	3.5	10	34	190	66	21	12	3.1	.94	1.5	.48
26	1.9	3.5	11	32	162	63	20	11	2.9	.92	1.7	.42
27	2.0	3.6	12	31	138	58	20	10	2.9	.83	1.6	.39
28	1.9	4.0	11	31	118	56	19	10	2.7	.74	1.5	.41
29	1.9	10	9.4	180	104	55	19	9.6	2.4	.63	1.4	.41
30	1.9	9.6	8.6	120	------	53	18	9.2	2.5	.61	1.2	.51
31	1.9	------	8.1	80	------	50	------	8.9	------	.73	1.1	------
TOTAL	67.1	117.3	537.7	2,333.4	5,793	2,560	928	415.7	165.9	44.27	39.20	21.89
MEAN	2.16	3.91	17.3	75.3	200	82.6	30.9	13.4	5.53	1.43	1.26	.73
MAX	5.3	17	74	530	624	194	57	17	9.2	2.3	5.6	1.1
MIN	1.3	1.8	5.0	6.7	61	47	18	8.9	2.4	.61	.58	.39
AC-FT	133	233	1,070	4,630	11,490	5,080	1,840	825	329	88	78	43

CAL YR 1967 TOTAL 23,227.97 MEAN 63.6 MAX 1,530 MIN .97 AC-FT 46,070
WTR YR 1968 TOTAL 13,023.46 MEAN 35.6 MAX 624 MIN .39 AC-FT 25,830

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.87	2.2	4.8	49	177	325	154	67	21	8.2	2.4	.98
2	.87	7.2	4.5	54	155	288	151	64	20	7.7	2.3	.94
3	.95	5.4	4.1	57	138	254	134	62	19	7.2	2.2	.90
4	1.0	3.9	4.0	77	130	225	122	60	19	7.0	2.2	.89
5	1.1	3.5	4.0	88	168	212	136	58	18	6.7	2.2	.89
6	1.2	3.0	4.0	82	264	199	120	58	18	6.6	2.2	.88
7	1.2	3.0	4.2	72	200	176	110	58	18	6.4	2.3	.91
8	1.0	2.8	7.4	64	206	154	104	59	18	5.9	2.3	.99
9	1.0	2.7	6.7	55	725	157	100	59	19	5.5	2.2	1.0
10	1.0	2.6	234	48	516	174	94	59	20	5.2	2.0	.99
11	1.1	2.6	55	365	872	161	91	60	20	4.9	1.8	.92
12	2.2	3.2	21	809	692	160	91	58	19	4.7	1.7	.88
13	2.5	3.0	25	1,270	449	149	89	55	17	4.4	1.6	.84
14	2.2	3.8	73	498	415	142	87	52	17	4.1	1.5	.86
15	2.1	6.9	428	247	667	141	83	49	15	4.0	1.5	.94
16	1.8	6.9	106	162	489	145	79	46	15	3.8	1.4	1.0
17	1.7	6.2	52	115	385	201	79	44	13	3.4	1.4	1.0
18	1.7	8.2	36	165	323	207	80	41	14	3.2	1.4	1.0
19	1.6	7.0	29	682	276	184	78	39	15	3.0	1.4	1.1
20	1.5	5.4	23	1,070	233	186	79	37	14	2.9	1.4	1.2
21	1.5	4.7	20	1,380	201	203	81	35	13	2.8	1.3	1.2
22	1.5	4.2	19	766	178	182	83	34	12	2.5	1.2	1.2
23	1.5	4.0	41	466	184	174	99	32	11	2.5	1.1	1.1
24	1.5	4.2	239	340	234	167	89	30	11	2.5	1.1	1.0
25	1.5	4.6	328	406	221	157	81	29	10	2.5	1.1	1.0
26	1.5	4.2	137	883	184	151	76	29	10	2.6	1.2	.97
27	1.6	4.0	81	516	198	153	72	28	10	2.5	1.2	.96
28	1.6	3.8	92	380	427	161	70	27	9.7	2.6	1.2	.94
29	1.8	3.9	80	289	------	166	70	25	9.3	2.6	1.2	.94
30	2.7	5.3	63	232	------	169	68	23	8.7	2.6	1.1	.99
31	2.4	------	52	191	------	167	------	22	------	2.5	1.0	------
TOTAL	47.69	132.4	2,277.7	11,878	9,307	5,690	2,850	1,399	453.7	133.0	50.1	29.41
MEAN	1.54	4.41	73.5	383	332	184	95.0	45.1	15.1	4.29	1.62	.98
MAX	2.7	8.2	428	1,380	872	325	154	67	21	8.2	2.4	1.2
MIN	.87	2.2	4.0	48	130	141	68	22	8.7	2.5	1.0	.84
AC-FT	95	263	4,520	23,560	18,460	11,290	5,650	2,770	900	264	99	58

CAL YR 1968 TOTAL 14,759.15 MEAN 40.3 MAX 624 MIN .39 AC-FT 29,270
WTR YR 1969 TOTAL 34,248.00 MEAN 93.8 MAX 1,380 MIN .84 AC-FT 67,930

11384600 LITTLE STONY CREEK ABOVE EAST PARK RESERVOIR, NEAR LODOGA, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.94	2.7	3.3	50	222	122	37	20	8.3	3.8	.92	.34
2	.93	2.7	3.2	44	192	87	35	19	7.9	3.4	.89	.35
3	.95	2.7	3.2	40	171	80	34	19	7.2	3.1	.81	.36
4	.98	2.7	3.3	36	156	125	33	18	6.8	2.9	.82	.38
5	1.1	7.6	3.3	33	141	107	33	18	6.6	2.6	.71	.40
6	1.2	5.6	3.3	30	129	97	32	18	6.4	2.4	.68	.44
7	1.2	4.5	3.3	29	118	98	32	18	6.4	2.4	.65	.39
8	1.2	5.3	4.6	75	110	107	31	18	7.1	2.2	.64	.39
9	1.2	4.8	4.5	1,050	104	104	30	17	8.3	2.2	.60	.47
10	1.3	4.1	5.6	605	98	100	29	17	7.9	2.1	.56	.43
11	1.3	3.8	21	327	94	93	29	17	7.5	2.1	.52	.39
12	1.3	3.5	170	324	128	87	28	17	7.0	1.9	.49	.37
13	1.3	3.5	69	539	287	82	28	17	6.7	1.8	.46	.36
14	1.6	3.4	26	1,570	168	79	29	16	8.0	1.7	.46	.36
15	7.2	3.5	19	883	130	75	28	15	9.1	1.6	.45	.36
16	6.2	3.5	14	1,650	210	71	28	14	7.4	1.5	.34	.41
17	4.9	3.3	11	1,130	238	67	27	14	6.6	1.6	.32	.37
18	3.1	3.3	17	751	190	65	26	13	6.0	1.5	.31	.40
19	2.6	3.3	433	585	168	62	25	13	5.4	1.3	.30	.40
20	2.4	3.3	250	601	155	60	25	13	5.0	1.2	.31	.45
21	2.3	3.3	544	1,350	138	58	25	13	4.6	1.1	.30	.49
22	2.4	3.3	181	1,130	119	55	25	12	4.5	1.2	.30	.44
23	2.5	3.3	419	1,980	107	53	24	12	4.1	1.1	.32	.37
24	2.6	3.3	547	1,820	96	50	24	11	3.9	1.1	.33	.46
25	2.6	3.3	261	934	87	48	22	10	3.9	1.0	.35	.46
26	2.7	3.3	161	627	81	46	23	10	3.8	1.0	.38	.46
27	2.7	3.3	124	943	76	44	23	10	3.9	1.0	.37	.44
28	2.6	3.3	101	575	89	43	22	10	4.9	.98	.36	.44
29	2.6	3.3	84	408	------	41	21	10	4.6	.88	.35	.45
30	2.7	3.3	69	323	------	40	21	9.3	4.1	.86	.36	.45
31	2.7	------	58	263	------	38	------	8.7	------	.90	.36	------
TOTAL	71.30	110.1	3,616.6	20,705	4,002	2,284	829	447.0	183.9	54.42	15.02	12.28
MEAN	2.30	3.67	117	668	143	73.7	27.6	14.4	6.13	1.76	.48	.41
MAX	7.2	7.6	547	1,980	287	125	37	20	9.1	3.8	.92	.49
MIN	.93	2.7	3.2	29	76	38	21	8.7	3.8	.86	.30	.34
AC-FT	141	218	7,170	41,070	7,940	4,530	1,640	887	365	108	30	24

CAL YR 1969 TOTAL 35,588.21 MEAN 97.5 MAX 1,380 MIN .84 AC-FT 70,590
WTR YR 1970 TOTAL 33,186.32 MEAN 90.9 MAX 1,980 MIN .30 AC-FT 64,130

11385100 EAST PARK RESERVOIR NEAR STONYFORD, CALIF.

LOCATION.--Lat 39°21'24", long 122°30'53", in SW¼NE¼ sec.3, T.17 N., R.6 W., Colusa County, near south side of spillway section on East Park Dam on Little Stony Creek, 1.9 miles southeast of Stonyford.

DRAINAGE AREA.--98.2 sq mi.

PERIOD OF RECORD.--October 1969 to September 1970.

GAGE.--Nonrecording gage. Datum of gage is at mean sea level (levels by Bureau of Reclamation).

EXTREMES.--Maximum contents during water year 1970, 51,350 acre-ft Mar. 4-7 (elevation, 1,199.94 ft); minimum, 2,420 acre-ft Sept. 26-30 (elevation, 1,147.85 ft).

REMARKS.--Reservoir is formed by a concrete arch-type dam; storage began in 1910. Capacity, 48,210 acre-ft between elevations 1,131.68 (invert of sluice pipe) and 1,198.18 ft (crest of spillway). Capacity increased to 50,890 acre-ft with the addition of flashboards to elevation of 1,199.68 ft. No dead storage.

COOPERATION.--Record of contents furnished by Bureau of Reclamation.

MONTHEND ELEVATION AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DATE	ELEVATION (FEET)	CONTENTS (ACRE-FEET)	CHANGE IN CONTENTS (ACRE-FEET)	DATE	ELEVATION (FEET)	CONTENTS (ACRE-FEET)	CHANGE IN CONTENTS (ACRE-FEET)
OCT. 31, 1969......	1,169.64	12,882	-5,570	APR. 30, 1970......	1,198.26	48,339	-2,359
NOV. 30............	1,169.48	12,762	-120	MAY 31............	1,191.04	36,598	-11,741
DEC. 31............	1,181.84	24,410	+11,648	JUNE 30............	1,185.13	28,409	-8,189
				JULY 31............	1,175.94	18,204	-10,205
CAL YR 1969......	-	-	-	AUG. 31............	1,157.89	5,914	-12,290
				SEPT.30............	1,147.92	2,419	-3,495
JAN. 31, 1970......	1,198.66	49,048	+24,638				
FEB. 28............	1,198.43	48,639	-409	WTR YR 1970......	-	-	-16,033
MAR. 31............	1,199.58	50,698	+2,059				

11386100 STONY GORGE RESERVOIR NEAR ELK CREEK, CALIF.

LOCATION.--Lat 39°35'09", long 122°31'54", in NE¼SE¼ sec.16, T.20 N., R.6 W., Glenn County, on south end of Stony Gorge Dam on Stony Creek, 1.3 miles southeast of Elk Creek.

DRAINAGE AREA.--301 sq mi.

PERIOD OF RECORD.--October 1969 to September 1970.

GAGE.--Nonrecording gage. Datum of gage is at mean sea level (levels by Bureau of Reclamation).

EXTREMES.--Maximum contents during water year 1970, 51,220 acre-ft Mar. 26, 27 (elevation, 841.64 ft); minimum, 6,440 acre-ft (elevation, 787.31 ft).

REMARKS.--Reservoir is formed by slab and buttress-type dam; storage began in 1928. Capacity, 50,380 acre-ft between elevations, 728.0 (top of low intake) and 841.0 ft (crest of spillway). No dead storage.

COOPERATION.--Record of contents furnished bv Bureau of Reclamation.

ELEVATION AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DATE	ELEVATION (FEET)	CONTENTS (ACRE-FEET)	CHANGE IN CONTENTS (ACRE-FEET)	DATE	ELEVATION (FEET)	CONTENTS (ACRE-FEET)	CHANGE IN CONTENTS (ACRE-FEET)
OCT. 31, 1969......	790.70	7,714	+469	APR. 30, 1970......	838.80	47,297	-3,532
NOV. 30............	793.75	9,062	+1,348	MAY 31............	839.40	48,042	+745
DEC. 31............	824.48	31,358	+22,296	JUNE 30............	834.70	42,380	-5,662
				JULY 31............	821.39	28,373	-14,007
CAL YR 1969......	-	-	-	AUG. 31............	806.95	16,667	-11,706
				SEPT.30............	787.45	6,435	-10,232
JAN. 31, 1970......	830.04	37,134	+5,776				
FEB. 28............	836.10	44,026	+6,892	WTR YR 1970	-	-	-810
MAR. 31............	841.60	50,829	+6,803				

11386500 GRINDSTONE CREEK NEAR ELK CREEK, CALIF.

LOCATION (REVISED).--Lat 39°40'38", long 122°31'51", on line between secs.15 and 16, T.21 N., R.6 W., Glenn County, on right bank 600 ft upstream from highway bridge and 4.5 miles north of Elk Creek.

DRAINAGE AREA.--156 sq mi (revised).

PERIOD OF RECORD.--October 1935 to November 1937, October 1939 to April 1940, October 1965 to September 1970. Monthly and yearly discharge only for some periods, published in WSP 1315-A.

GAGE.--Water-stage recorder. Altitude of gage is 640 ft (from topographic map). October 1935 to November 1937 at site 0.2 mile downstream at different datum and October 1939 to April 1940 at site 600 ft downstream at different datum.

AVERAGE DISCHARGE.--7 years (1935-37, 1965-70), 172 cfs (124,600 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 4, 1966	6,210	13.00	Nov. 1, 1965	.10
1967	Jan. 29, 1967	7,180	13.45	Oct. 20-28, Nov. 4, 5, 1966	.70
1968	Feb. 19, 1968	4,570	12.52	Sept.16-24, 1968	.20
1969	Jan. 21, 1969	7,360	13.07	Oct. 10, 12, 1968	.20
1970	Jan. 23, 1970	15,600	14.55	Aug. 11, 12, 1970	.20

Period of record: Maximum discharge, 15,600 cfs Jan. 23, 1970 (gage height, 14.55 ft), from rating curve extended above 10,000 cfs on basis of slope-area measurement of peak flow; no flow at times in many years.

Flood of Dec. 22, 1964, reached a stage of 9.38 ft, from floodmarks, at site 600 ft downstream at different datum (discharge, 22,200 cfs, by slope-area measurement).

REMARKS.--No diversion above station. No gage-height record July 6 to Aug. 16, 1967. Water-quality records for the water years 1968-70 are published in reports of the Geological Survey.

COOPERATION.--Records furnished by California Department of Water Resources and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	.10	41	110	261	139	432	146	46	1.3	3.4	2.6
2	2.5	.30	44	100	239	127	417	139	47	1.4	3.4	2.6
3	2.2	.80	47	200	332	111	414	140	42	1.3	3.4	2.0
4	2.6	1.0	54	3,000	590	111	383	158	37	1.0	2.6	1.5
5	2.9	1.9	57	2,450	446	131	352	178	29	.90	2.0	1.0
6	2.8	1.9	69	1,420	364	142	340	148	31	1.3	2.0	1.0
7	1.7	8.1	59	845	298	159	337	130	40	2.0	2.0	.70
8	1.7	37	54	633	258	188	332	115	36	2.6	1.5	1.0
9	1.7	22	62	476	243	284	344	132	29	2.6	1.0	.70
10	2.1	18	70	362	220	380	414	142	26	2.6	1.0	1.0
11	1.5	17	72	293	204	310	435	129	20	2.6	1.0	.70
12	3.7	33	70	248	199	304	406	107	17	3.4	.70	.70
13	3.2	169	78	230	190	357	312	104	16	3.4	.40	.40
14	2.6	347	90	220	180	375	283	92	14	3.4	.70	1.0
15	2.6	382	74	210	173	345	274	86	14	2.6	1.0	.70
16	2.6	98	66	200	163	318	279	83	14	2.6	.70	.70
17	2.8	157	58	190	162	261	295	69	10	2.0	1.0	.70
18	2.6	263	54	180	165	243	279	62	9.4	1.5	.70	.70
19	2.6	129	49	170	188	238	245	70	7.6	1.5	1.0	.70
20	2.0	73	46	160	174	238	223	72	7.0	3.4	.70	2.0
21	1.8	48	44	155	174	234	206	74	7.9	4.2	.70	2.0
22	2.3	38	42	159	172	218	188	73	8.2	4.2	.40	1.5
23	1.9	34	40	162	183	224	183	66	6.8	4.2	.40	1.5
24	1.3	81	56	165	174	231	185	68	5.7	3.4	.20	1.5
25	1.4	78	68	166	166	254	195	67	3.4	2.6	.40	1.5
26	.90	55	60	166	151	272	191	69	2.7	2.6	.40	2.0
27	.60	50	50	168	144	307	161	64	2.6	2.6	.40	1.5
28	1.0	51	200	163	143	359	161	61	1.6	2.6	.40	1.5
29	1.1	45	170	226	------	390	157	61	1.5	2.6	.70	1.0
30	1.7	46	140	233	------	430	149	56	1.2	2.6	1.5	.70
31	.70	------	120	216	------	417	------	50	------	3.4	2.6	------
TOTAL	63.40	2,285.10	2,204	13,676	6,356	8,097	8,572	3,011	533.6	78.40	38.30	37.10
MEAN	2.05	76.2	71.1	441	227	261	286	97.1	17.8	2.53	1.24	1.24
MAX	3.7	382	200	3,000	590	430	435	178	47	4.2	3.4	2.6
MIN	.60	.10	40	100	143	111	149	50	1.2	.90	.20	.40
AC-FT	126	4,530	4,370	27,130	12,610	16,060	17,000	5,970	1,060	156	76	74

WTR YR 1966 TOTAL 44,951.90 MEAN 123 MAX 3,000 MIN .10 AC-FT 89,160

11386500 GRINDSTONE CREEK NEAR ELK CREEK, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	1.0	181	55	827	111	193	268	170	38	10	3.4
2	1.0	1.0	583	52	583	102	176	282	645	36	9.8	3.4
3	1.0	1.0	467	46	449	102	198	311	415	33	9.1	3.4
4	1.0	.70	744	46	398	94	204	357	242	31	8.5	2.0
5	1.5	.70	1,630	46	357	86	198	389	262	33	8.4	2.0
6	1.5	1.5	458	43	341	79	255	373	297	40	8.3	2.6
7	1.5	7.0	275	41	319	75	415	458	235	38	8.2	2.6
8	1.5	11	210	41	289	72	326	562	210	37	8.0	2.6
9	1.5	7.0	165	41	268	72	326	572	193	35	7.9	2.6
10	1.0	5.0	304	41	248	94	334	486	181	34	7.8	2.0
11	1.0	3.4	255	43	229	139	341	389	176	32	7.7	2.0
12	1.0	7.0	268	49	229	125	297	334	204	31	7.6	2.0
13	1.5	28	304	55	229	107	275	304	204	29	7.5	1.5
14	1.5	22	275	58	204	90	268	304	159	27	7.3	1.5
15	1.5	90	216	65	193	94	255	349	139	26	7.2	1.5
16	1.5	165	181	68	181	677	229	415	129	24	7.1	1.5
17	1.0	82	165	75	176	495	242	441	115	23	7.0	2.0
18	1.0	41	144	79	176	415	235	432	115	21	7.0	2.6
19	1.0	55	129	82	170	373	341	381	115	20	6.0	2.6
20	.70	486	125	603	159	389	275	357	102	18	5.0	2.6
21	.70	319	115	3,880	149	423	357	357	86	17	5.0	2.6
22	.70	187	107	1,100	139	398	326	326	72	17	4.2	4.2
23	.70	90	102	583	139	432	373	311	61	16	4.2	4.2
24	.70	52	94	572	134	381	381	268	58	15	4.2	5.0
25	.70	41	90	304	134	334	398	235	55	15	3.4	5.0
26	.70	33	82	1,110	125	304	365	204	52	14	4.2	6.0
27	.70	31	75	1,170	115	268	341	187	52	14	7.0	5.0
28	.70	90	68	1,840	115	242	319	170	49	13	5.0	5.0
29	1.0	198	68	4,200	------	223	289	154	38	12	3.4	7.0
30	1.0	125	65	2,060	------	223	275	139	36	12	3.4	5.0
31	1.0	------	61	1,410	------	216	------	129	------	11	3.4	------
TOTAL	32.80	2,181.30	8,006	19,858	7,075	7,235	8,807	10,244	4,867	762	202.8	95.4
MEAN	1.06	72.7	258	641	253	233	294	330	162	24.6	6.54	3.18
MAX	1.5	486	1,630	4,200	827	677	415	572	645	40	10	7.0
MIN	.70	.70	61	41	115	72	176	129	36	11	3.4	1.5
AC-FT	65	4,330	15,880	39,390	14,030	14,350	17,470	20,320	9,650	1,510	402	189

CAL YR 1966 TOTAL 50,619.50 MEAN 139 MAX 3,000 MIN .20 AC-FT 100,400
WTR YR 1967 TOTAL 69,366.30 MEAN 190 MAX 4,200 MIN .70 AC-FT 137,600

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	2.6	7.0	36	115	381	198	68	31	14	1.0	1.0
2	7.0	2.0	4.2	31	216	349	170	68	28	12	1.0	.60
3	7.0	2.6	68	26	373	341	144	65	24	12	1.0	.60
4	8.2	3.4	86	24	297	311	139	68	26	12	.60	.60
5	8.2	4.2	165	20	282	282	134	65	26	11	.60	.60
6	7.0	4.2	46	20	311	242	125	61	26	9.4	.60	.60
7	6.0	5.0	72	18	319	223	115	58	26	8.2	.60	.60
8	5.0	5.0	43	18	319	193	111	55	22	7.0	.60	1.0
9	4.2	5.0	31	33	311	165	111	55	20	5.0	.60	1.0
10	3.4	5.0	33	346	319	144	115	55	20	5.0	.60	1.0
11	3.4	5.0	36	120	297	134	134	52	22	4.2	.60	1.0
12	3.4	6.0	36	79	275	170	134	52	22	3.4	1.0	1.0
13	3.4	8.2	26	172	268	193	111	61	22	3.4	1.0	1.0
14	3.4	49	18	1,640	248	170	111	61	22	4.2	1.5	.60
15	2.6	14	20	1,460	206	170	111	52	22	4.2	1.5	.40
16	3.4	5.0	20	533	326	255	98	49	20	3.4	1.0	.20
17	3.4	2.6	24	326	634	235	90	43	20	2.6	1.0	.20
18	2.6	1.5	33	262	514	198	86	43	20	2.6	1.0	.20
19	3.4	1.5	28	216	1,870	176	86	46	20	2.6	2.0	.20
20	3.4	1.5	28	187	2,160	165	79	72	18	2.6	2.6	.20
21	4.2	1.5	41	187	1,780	165	72	58	18	2.6	2.6	.20
22	4.2	1.0	82	187	1,380	165	65	58	18	2.6	2.6	.20
23	7.0	.60	111	165	1,320	165	68	52	17	2.0	1.5	.20
24	7.0	.60	115	154	965	165	61	46	17	2.0	1.5	.20
25	6.0	.40	94	149	722	235	61	49	17	1.5	1.0	.40
26	4.2	.40	65	125	593	235	65	46	17	1.0	1.5	.40
27	4.2	.40	58	107	504	193	65	41	15	1.0	2.0	.40
28	3.4	.40	52	98	441	193	61	41	15	1.0	2.0	.40
29	3.4	4.2	49	193	389	210	65	38	14	1.0	1.0	.40
30	2.6	15	43	165	------	204	68	36	15	1.0	1.0	.40
31	2.6	------	38	125	------	187	------	33	------	1.0	1.0	------
TOTAL	143.2	157.80	1,572.2	7,222	17,754	6,614	3,053	1,647	620	145.5	38.10	15.80
MEAN	4.62	5.26	50.7	233	612	213	102	53.1	20.7	4.69	1.23	.53
MAX	8.2	49	165	1,640	2,160	381	198	72	31	14	2.6	1.0
MIN	2.6	.40	4.2	18	115	134	61	33	14	1.0	.60	.20
AC-FT	284	313	3,120	14,320	35,220	13,120	6,060	3,270	1,230	289	76	31

CAL YR 1967 TOTAL 61,019.40 MEAN 167 MAX 4,200 MIN .40 AC-FT 121,000
WTR YR 1968 TOTAL 38,982.60 MEAN 107 MAX 2,160 MIN .20 AC-FT 77,320

11386500 GRINDSTONE CREEK NEAR ELK CREEK, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.60	5.0	20	102	440	500	1,120	450	138	28	.20	1.5
2	1.5	38	24	106	382	470	958	420	116	26	.20	1.5
3	1.5	22	22	160	346	420	748	400	121	24	.20	1.5
4	1.5	9.4	20	328	328	373	621	355	132	22	.20	2.0
5	1.5	7.0	18	430	410	382	654	355	126	22	.20	2.0
6	1.5	7.0	24	440	470	382	566	410	116	20	.20	2.6
7	1.5	6.0	22	420	364	382	490	430	106	20	.20	2.6
8	1.0	5.0	36	373	382	364	470	440	93	18	.20	2.6
9	.60	4.2	33	278	944	328	470	460	89	17	.40	2.6
10	.20	4.2	566	224	874	278	480	480	85	18	.40	2.6
11	.40	4.2	262	480	1,940	238	544	450	81	18	.20	2.6
12	.20	14	143	2,260	1,680	217	643	470	76	17	2.6	2.6
13	.60	9.4	110	2,890	1,090	198	577	430	65	17	3.4	2.6
14	12	9.4	126	1,320	944	191	500	382	61	15	3.4	2.0
15	11	12	442	790	1,140	210	450	310	55	15	3.4	2.0
16	8.2	9.4	224	566	874	302	430	294	55	15	2.6	2.6
17	7.0	9.4	143	420	720	500	480	294	49	14	2.0	2.6
18	3.4	118	110	400	665	599	566	302	49	12	2.0	2.6
19	2.6	49	106	2,140	610	555	533	278	68	9.4	2.0	3.4
20	2.6	24	93	5,010	544	599	522	246	55	11	2.6	3.4
21	2.6	24	85	5,550	480	665	610	230	49	11	2.6	3.4
22	2.6	22	81	2,550	420	621	698	224	43	9.4	2.6	2.6
23	2.6	20	97	1,420	460	687	687	224	41	9.4	2.6	2.0
24	2.0	22	224	1,090	621	698	544	230	41	8.2	2.6	2.0
25	2.6	22	262	1,440	490	687	440	210	38	8.2	2.6	1.5
26	1.5	22	160	2,880	420	776	391	191	36	8.2	2.6	1.5
27	1.5	20	126	1,470	450	986	400	191	36	8.2	2.0	1.5
28	1.5	20	148	1,090	643	1,200	430	154	33	7.0	2.6	1.5
29	2.0	18	132	804	------	1,420	490	148	31	6.0	2.6	1.5
30	2.6	22	121	632	------	1,420	470	148	28	3.4	2.6	1.5
31	6.0	------	106	511	------	1,270	------	143	------	2.0	2.0	------
TOTAL	86.90	578.6	4,086	38,574	19,131	17,918	16,982	9,749	2,112	439.4	54.00	66.9
MEAN	2.80	19.3	132	1,244	683	578	566	314	70.4	14.2	1.74	2.23
MAX	12	118	566	5,550	1,940	1,420	1,120	480	138	28	3.4	3.4
MIN	.20	4.2	18	102	328	191	391	143	28	2.0	.20	1.5
AC-FT	172	1,150	8,100	76,510	37,950	35,540	33,680	19,340	4,190	872	107	133

CAL YR 1968 TOTAL 41,860.90 MEAN 114 MAX 2,160 MIN .20 AC-FT 83,030
WTR YR 1969 TOTAL 109,777.80 MEAN 301 MAX 5,550 MIN .20 AC-FT 217,700

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	3.4	7.0	102	709	254	138	61	28	12	1.5	.60
2	1.5	3.4	6.0	89	588	262	138	61	26	11	1.5	.40
3	1.5	3.4	6.0	81	522	238	132	61	26	11	1.5	.60
4	1.0	4.2	6.0	76	470	254	132	61	24	9.4	1.5	.60
5	1.5	14	6.0	65	420	294	121	61	24	8.2	2.0	1.5
6	1.5	31	5.0	68	373	294	116	61	24	8.2	2.6	1.0
7	1.5	20	5.0	65	346	391	110	58	22	7.0	2.6	1.0
8	1.5	17	7.0	76	319	588	106	61	22	6.0	2.6	.60
9	2.0	24	8.2	698	294	480	89	72	26	6.0	2.0	.60
10	2.6	17	9.4	632	270	391	85	68	26	6.0	1.5	1.0
11	2.6	14	18	346	254	346	85	68	24	7.0	.20	1.0
12	2.6	11	826	381	319	310	81	68	20	6.0	.20	.60
13	2.0	9.4	462	1,040	511	294	76	76	20	5.0	.40	.60
14	2.0	9.4	198	3,950	490	302	76	72	33	5.0	.60	.60
15	17	8.2	138	1,760	420	278	76	68	28	4.2	.60	.60
16	65	7.0	102	6,370	507	254	81	65	24	4.2	1.0	.40
17	58	7.0	68	5,290	1,210	238	76	61	22	3.4	1.0	.40
18	31	7.0	76	2,370	874	217	68	61	20	3.4	1.0	.40
19	18	6.0	646	1,710	654	204	61	61	18	2.6	1.0	.60
20	14	6.0	440	1,410	544	198	61	61	18	2.6	1.0	1.0
21	11	6.0	1,240	4,170	460	191	58	55	17	2.0	1.5	.60
22	8.2	6.0	496	3,000	400	184	61	52	17	2.0	1.5	.60
23	8.2	6.0	998	6,810	346	178	68	52	17	2.6	1.5	.60
24	8.2	6.0	891	9,750	319	172	68	46	15	2.6	1.0	.40
25	7.0	6.0	480	3,930	286	165	65	43	15	2.6	1.0	.40
26	6.0	6.0	328	2,730	270	165	65	41	15	2.6	1.0	.40
27	6.0	6.0	224	6,410	254	154	68	38	14	2.6	1.0	.60
28	6.0	6.0	172	2,630	246	143	65	38	14	2.0	1.0	1.0
29	6.0	6.0	148	1,640	------	148	65	36	14	2.0	1.0	.60
30	5.0	6.0	132	1,150	------	138	65	33	14	2.0	1.0	.40
31	3.4	------	106	874	------	138	------	31	------	2.0	1.0	------
TOTAL	302.8	282.4	8,254.6	69,673	12,675	7,863	2,556	1,751	627	153.2	38.80	19.70
MEAN	9.77	9.41	266	2,248	453	254	85.2	56.5	20.9	4.94	1.25	.66
MAX	65	31	1,240	9,750	1,210	588	138	76	33	12	2.6	1.5
MIN	1.0	3.4	5.0	65	246	138	58	31	14	2.0	.20	.40
AC-FT	601	560	16,370	138,200	25,140	15,600	5,070	3,470	1,240	304	77	39

CAL YR 1969 TOTAL 113,866.10 MEAN 312 MAX 5,550 MIN .20 AC-FT 225,900
WTR YR 1970 TOTAL 104,196.50 MEAN 285 MAX 9,750 MIN .20 AC-FT 206,700

11387000 STONY CREEK NEAR FRUTO, CALIF.

LOCATION.--Lat 39°40'18", long 122°31'01", in SW¼SE¼ sec.15, T.21 N., R.6 W., Glenn County, on right bank 0.3 mile downstream from Grindstone Creek and 6.5 miles northwest of Fruto.

DRAINAGE AREA.--597 sq mi (revised).

PERIOD OF RECORD.--January 1901 to October 1912, October 1960 to September 1970.

GAGE.--Water-stage recorder and two crest-stage gages. Altitude of gage is 600 ft (from topographic map). Prior to Oct. 6, 1912, nonrecording gage at site 1.0 mile downstream at different datum.

AVERAGE DISCHARGE.--21 years, 678 cfs (491,200 acre-ft per year), unadjusted.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 4, 1966	12,800	11.50	Sept.28, 29, 1966	7.2
1967	Jan. 29, 1967	15,600	11.83	Nov. 2, 1966	3.2
1968	Feb. 19, 1968	14,500	11.62	Aug. 25, 1968	8.8
1969	Jan. 21, 1969	13,600	11.73	Oct. 12, 13, 1968	.32
1970	Jan. 24, 1970	32,000	15.02	Nov. 29, 30, 1969	8.5

Period of record: Maximum discharge, 40,200 cfs Dec. 23, 1964 (gage height, 15.94 ft in gage well, 16.1 ft, from floodmarks); no flow July 5-13, Oct. 25, 26, 1901.

REMARKS.--Records good. Many diversions above station for irrigation. Flow regulated by Stony Gorge Reservoir 6.9 miles upstream since 1928 and by East Park Reservoir since 1910 (combined usable capacity, 100,700 acre-ft). Water-quality records for the water year 1966 are published in reports of the Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	308	123	65	151	577	500	1,010	344	388	217	384	288
2	305	128	65	132	344	475	964	435	384	312	408	284
3	302	134	67	178	1,090	452	866	698	376	312	525	280
4	298	128	72	5,440	5,440	438	803	656	372	312	500	280
5	298	114	72	4,510	3,090	480	768	632	368	312	485	274
6	298	117	83	2,970	1.600	485	817	570	372	308	480	270
7	294	98	85	3,020	727	520	789	447	368	277	475	270
8	291	64	69	2,370	555	525	761	434	364	231	470	267
9	287	55	67	1,900	754	700	716	438	360	261	465	264
10	284	49	62	1,490	803	1,040	922	442	356	298	460	264
11	280	46	61	1,160	740	1,120	1,240	438	352	294	460	261
12	255	48	67	922	674	1,120	1,230	429	344	294	485	261
13	234	252	60	722	620	1,160	1,050	429	344	277	515	261
14	234	968	57	564	587	1,140	929	429	340	255	510	258
15	210	1,460	55	352	432	971	810	424	336	255	465	258
16	190	275	54	340	319	950	782	424	336	252	388	240
17	188	428	51	312	202	866	747	416	333	252	384	222
18	182	523	50	294	420	735	680	420	330	240	380	219
19	172	228	49	274	555	550	592	420	330	231	376	219
20	144	125	48	249	570	530	530	420	326	246	380	222
21	125	86	48	234	560	500	490	420	326	267	400	240
22	84	69	48	228	555	475	438	424	326	237	404	252
23	45	62	46	216	598	465	424	408	326	88	392	252
24	38	122	84	204	587	485	420	412	322	198	396	252
25	34	112	130	196	576	540	424	412	322	330	380	249
26	31	86	78	190	560	620	416	408	319	352	319	204
27	28	80	67	182	525	716	388	404	319	356	312	13
28	66	72	462	172	505	810	380	404	319	396	312	7.2
29	121	69	387	342	------	887	368	400	195	392	305	7.2
30	121	67	213	355	------	950	352	392	72	392	288	31
31	121	------	190	246	------	985	------	388	------	392	288	------
TOTAL	5,868	6.188	3,012	29,915	24,565	22,190	21,106	13,817	9,925	8.836	12,791	6,669.4
MEAN	189	206	97.2	965	877	716	704	446	331	285	413	222
MAX	308	1.460	462	5,440	5,440	1,160	1.240	698	388	396	525	288
MIN	28	46	46	132	202	438	352	344	72	88	288	7.2
AC-FT	11,640	12,270	5,970	59,340	48,720	44,010	41,860	27,410	19,690	17,530	25,370	13,230

CAL YR 1965 TOTAL 257,639.0 MEAN 706 MAX 13,800 MIN 28 AC-FT 511,000
WTR YR 1966 TOTAL 164,882.4 MEAN 452 MAX 5,440 MIN 7.2 AC-FT 327,000

11387000 STONY CREEK NEAR FRUTO, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	181	3.9	308	98	4,960	360	768	918	510	294	412	466
2	187	3.2	1,840	107	3,350	360	560	691	1,650	294	412	434
3	193	52	993	87	2,840	352	629	580	1,520	279	407	425
4	196	132	2,090	80	2,280	348	656	810	1,030	272	407	412
5	211	119	3,520	82	1,940	340	656	984	1,160	264	403	420
6	224	124	1,880	76	1,890	289	750	1,050	1,110	264	398	412
7	205	96	1,700	72	1,740	156	1,210	1,220	966	293	394	412
8	181	9.2	1,190	74	1,530	164	1,060	1,510	744	352	390	398
9	16	6.4	852	72	1,340	170	990	1,800	662	356	377	398
10	9.2	5.4	1,080	72	1,180	211	1,040	1,710	640	356	360	394
11	5.7	5.1	864	70	1,050	247	1,010	1,250	612	403	360	381
12	4.5	13	846	70	984	247	816	1,090	617	407	360	365
13	13	31	894	70	912	258	668	1,060	570	412	360	340
14	37	27	840	70	828	279	690	1,020	550	403	356	308
15	30	98	673	68	768	308	673	1,100	525	403	356	308
16	30	247	490	66	717	3,820	640	1,240	476	398	356	308
17	30	91	286	64	573	3,420	668	1,340	452	420	365	305
18	31	41	275	64	412	1,900	668	1,320	434	438	381	305
19	5.7	143	268	64	471	1,660	786	1,250	412	443	377	301
20	4.5	771	240	990	495	1,580	690	1,220	390	438	377	301
21	4.2	450	181	5,000	495	1,500	1,460	1,190	365	485	329	297
22	4.2	308	164	3,100	495	1,330	1,930	1,180	340	570	390	297
23	3.7	156	156	1,320	480	1,090	1,970	1,080	332	575	390	297
24	3.9	124	140	4,200	416	936	2,140	978	328	570	386	297
25	3.7	107	132	3,070	261	924	1,850	924	316	570	390	294
26	3.7	98	124	4,000	308	864	1,260	834	312	570	394	301
27	3.9	96	117	5,090	336	734	1,220	734	316	545	390	312
28	4.2	206	110	5,630	356	646	1,160	662	312	466	386	312
29	4.2	337	110	10,600	------	668	1,060	602	297	466	425	305
30	4.5	218	107	9,270	------	739	966	545	297	466	490	301
31	4.5	------	102	7,740	------	942	------	490	------	457	490	------
TOTAL	1,839.3	4,118.2	22,572	61,436	33,407	26,842	30,644	32,382	18,245	12,929	12,068	10,406
MEAN	59.3	137	728	1,982	1,193	866	1,021	1,045	608	417	389	347
MAX	224	771	3,520	10,600	4,960	3,820	2,140	1,800	1,650	575	490	466
MIN	3.7	3.2	102	64	261	156	560	490	297	264	329	294
AC-FT	3,650	8,170	44,770	121,900	66,260	53,240	60,780	64,230	36,190	25,640	23,940	20,640

CAL YR 1966 TOTAL 178,343.9 MEAN 489 MAX 5,440 MIN 3.2 AC-FT 353,700
WTR YR 1967 TOTAL 266,888.5 MEAN 731 MAX 10,600 MIN 3.2 AC-FT 529,400

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	301	180	24	40	240	1,080	598	228	228	207	470	343
2	305	137	20	38	643	980	586	238	228	277	430	343
3	332	134	154	37	730	883	515	440	228	425	388	356
4	324	134	145	37	537	618	465	435	224	420	384	440
5	316	134	218	36	620	348	435	435	224	410	379	425
6	305	132	80	32	703	309	406	430	228	410	361	420
7	305	132	188	32	812	289	388	425	224	406	334	317
8	305	130	80	32	831	361	379	406	224	402	330	317
9	297	130	47	36	703	406	370	384	220	402	325	283
10	282	127	43	702	581	388	366	379	224	402	313	140
11	258	123	43	188	515	366	370	379	224	402	313	140
12	258	120	43	109	480	430	384	374	220	397	309	140
13	247	101	33	250	470	542	532	415	220	397	309	140
14	237	119	33	3,490	455	554	614	402	217	402	301	140
15	247	42	23	2,380	420	586	586	379	214	402	297	137
16	208	23	24	576	944	824	576	370	214	406	297	165
17	167	19	23	330	4,640	1,040	570	366	214	406	293	330
18	122	15	51	253	3,450	935	576	334	214	406	293	430
19	56	14	37	224	7,180	857	655	334	214	406	273	425
20	50	14	29	189	7,850	787	649	356	210	397	204	402
21	50	14	26	186	5,230	727	475	343	210	392	103	317
22	51	14	23	183	4,220	685	348	334	207	388	19	309
23	51	14	23	174	3,630	643	309	305	207	388	13	277
24	51	14	30	166	2,990	620	238	297	207	410	9.6	234
25	60	14	48	160	2,090	661	234	301	207	410	8.8	231
26	91	14	80	155	1,710	655	231	293	210	430	9.6	234
27	91	14	101	150	1,660	620	228	269	207	475	9.6	231
28	119	14	91	142	1,470	592	228	245	207	475	14	228
29	107	17	74	1,200	1,240	592	228	238	207	470	14	228
30	107	32	56	770	------	586	228	234	207	470	144	224
31	132	------	45	297	------	570	------	231	------	465	370	------
TOTAL	5,832	2,121	1,935	12,594	57,044	19,534	12,767	10,599	6,489	12,555	7,317.6	8,346
MEAN	188	70.7	62.4	406	1,967	630	426	342	216	405	236	278
MAX	332	180	218	3,490	7,850	1,080	655	440	228	475	470	440
MIN	50	14	20	32	240	289	228	228	207	207	8.8	137
AC-FT	11,570	4,210	3,840	24,980	113,100	38,750	25,320	21,020	12,870	24,900	14,510	16,550

CAL YR 1967 TOTAL 248,247.0 MEAN 680 MAX 10,600 MIN 14 AC-FT 492,400
WTR YR 1968 TOTAL 157,133.6 MEAN 429 MAX 7,850 MIN 8.8 AC-FT 311,700

11387000 STONY CREEK NEAR FRUTO, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	230	6.0	30	140	2,050	2,930	2,160	870	450	460	576	390
2	224	38	25	158	1,690	2,510	1,990	883	425	455	559	355
3	221	74	19	208	1,090	2,230	1,850	876	402	450	554	350
4	218	30	17	476	805	1,810	1,470	838	379	440	480	348
5	214	27	16	678	2,190	1,640	1,490	838	361	440	392	343
6	214	25	25	768	4,320	1,120	1,590	876	343	440	392	220
7	208	26	23	744	2,610	537	1,500	968	325	435	370	330
8	106	7.7	58	651	1,860	470	1,410	1,020	305	420	355	334
9	2.4	5.4	58	462	3,740	475	1,360	1,080	297	388	340	338
10	.90	6.0	683	250	3,650	715	1,320	1,130	286	384	330	343
11	.50	6.0	380	899	5,190	460	1,270	1,130	280	384	320	348
12	.32	18	158	7,150	5,100	537	1,380	1,170	273	374	340	338
13	.32	15	119	9,070	3,820	818	1,370	1,090	268	374	330	334
14	2.1	13	218	4,900	3,890	922	1,280	1,000	260	370	300	330
15	2.1	35	973	2,780	5,140	935	1,230	902	252	374	360	313
16	1.6	26	331	1,790	3,770	994	1,180	850	260	348	310	285
17	1.9	25	145	999	3,300	1,270	1,230	818	345	313	305	289
18	1.0	142	102	762	2,750	1,590	1,300	812	360	297	305	273
19	.60	107	98	5,950	2,500	1,520	1,260	751	380	265	320	242
20	.60	53	78	10,300	2,250	1,650	1,280	703	405	265	310	220
21	.60	35	64	11,200	1,930	2,460	1,390	661	430	261	300	220
22	.70	26	60	6,970	1,760	2,100	1,490	637	415	261	250	217
23	.80	24	130	5,060	2,000	1,950	1,540	625	406	261	260	217
24	.90	22	837	4,120	3,900	1,820	1,360	614	402	273	260	214
25	1.1	28	988	4,520	2,450	1,760	1,210	581	406	297	265	214
26	1.2	24	425	8,150	2,070	1,840	1,080	554	420	297	270	220
27	1.4	20	227	6,050	2,270	2,080	1,040	559	425	293	280	224
28	1.6	18	407	4,520	4,080	2,200	1,070	570	465	534	280	220
29	2.4	17	250	3,340	------	2,360	1,020	510	460	425	300	220
30	3.7	28	178	2,910	------	2,460	850	480	455	450	380	220
31	6.0	------	147	2,360	------	2,400	------	465	------	576	380	------
TOTAL	1,669.74	927.1	7,269	108,335	82,175	48,563	40,970	24,861	10,940	11,604	10,773	8,509
MEAN	53.9	30.9	234	3,495	2,935	1,567	1,366	802	365	374	348	284
MAX	230	142	988	11,200	5,190	2,930	2,160	1,170	465	576	576	390
MIN	.32	5.4	16	140	805	460	850	465	252	261	250	214
AC-FT	3,310	1,840	14,420	214,900	163,000	96,320	81,260	49,310	21,700	23,020	21,370	16,880

CAL YR 1968 TOTAL 157,111.44 MEAN 429 MAX 7,850 MIN .32 AC-FT 311,600
WTR YR 1969 TOTAL 356,595.84 MEAN 977 MAX 11,200 MIN .32 AC-FT 707,300

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	224	132	9.0	160	1,650	520	300	542	156	395	318	321
2	220	132	9.0	144	1,840	455	295	526	154	393	321	321
3	297	132	9.5	132	1,760	420	330	526	152	391	323	321
4	374	108	9.5	125	1,480	914	390	523	150	390	331	306
5	312	23	9.0	118	1,250	987	370	514	164	389	331	273
6	118	33	13	112	1,300	948	345	499	184	387	340	269
7	114	22	76	107	1,250	1,030	335	515	181	384	353	269
8	112	22	81	140	1,180	1,310	320	515	183	388	358	269
9	112	29	85	4,260	1,100	1,290	293	454	193	295	357	266
10	127	23	89	4,010	1,050	1,350	285	328	191	379	355	259
11	214	20	89	1,650	1,010	1,180	273	319	185	384	351	232
12	198	17	878	1,380	1,130	1,060	269	320	209	388	341	220
13	198	15	624	2,660	2,510	948	261	324	283	388	334	217
14	192	13	245	9,250	2,560	902	277	288	294	388	334	217
15	148	12	189	4,370	1,810	851	343	259	292	388	330	209
16	62	14	123	9,960	1,830	799	348	220	287	379	330	186
17	54	13	101	9,160	2,460	763	361	223	284	361	330	183
18	29	13	109	6,450	1,960	715	402	217	283	361	330	153
19	19	12	1,320	4,840	1,740	620	410	214	283	361	326	101
20	14	12	1,200	4,500	1,570	305	455	212	286	343	324	97
21	13	11	1,480	10,000	1,430	289	505	181	282	343	325	97
22	11	12	835	9,460	1,260	301	495	178	282	338	325	99
23	11	11	1,550	14,200	1,150	338	435	173	297	338	325	101
24	11	11	3,100	23,600	844	374	435	170	339	338	325	103
25	11	11	2,040	9,890	485	356	435	169	359	334	329	105
26	11	10	1,380	5,450	465	334	430	167	391	334	326	99
27	11	10	987	9,990	455	317	435	167	391	334	322	97
28	11	9.0	751	4,920	460	361	465	162	393	330	321	103
29	58	8.5	608	4,460	------	392	495	163	394	330	321	126
30	130	8.5	495	3,680	------	334	537	158	395	325	324	127
31	132	------	207	2,160	------	313	------	157	------	321	322	------
TOTAL	3,548	899.0	18,701.0	161,338	38,989	21,076	11,329	9,383	7,917	11,197	10,282	5,746
MEAN	114	30.0	603	5,204	1,392	680	378	303	264	361	332	192
MAX	374	132	3,100	23,600	2,560	1,350	537	542	395	395	358	321
MIN	11	8.5	9.0	107	455	289	261	157	150	295	318	97
AC-FT	7,040	1,780	37,090	320,000	77,330	41,800	22,470	18,610	15,700	22,210	20,390	11,400

CAL YR 1969 TOTAL 369,878.0 MEAN 1,013 MAX 11,200 MIN 8.5 AC-FT 733,700
WTR YR 1970 TOTAL 300,405.0 MEAN 823 MAX 23,600 MIN 8.5 AC-FT 595,900

11387800 NORTH FORK STONY CREEK NEAR NEWVILLE, CALIF.

LOCATION.--Lat 39°47'05", long 122°28'34", in SW¼SW¼ sec.6, T.22 N., R.5 W., Glenn County, on right bank 150 ft downstream from Bedford Creek and 2.7 miles east of Newville.

DRAINAGE AREA.--63.4 sq mi (revised).

PERIOD OF RECORD.--May 1963 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 531.43 ft above mean sea level.

AVERAGE DISCHARGE.--7 years, 42.4 cfs (30,720 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (2,000 cfs, revised), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Nov. 15, 1965	0200	2,470	5.77	Jan. 29, 1968	1700	*2,580	5.87	Feb. 24, 1969	0600	3,690	6.71
Jan. 4, 1966	1800	*3,060	6.27								
				Dec. 15, 1968	1100	2,050	5.38	Jan. 9, 1970	1515	2,740	5.95
Dec. 2, 1966	1500	2,280	5.60	Dec. 24, 1968	0730	2,370	5.67	Jan. 14, 1970	0100	2,090	5.34
Dec. 4, 1966	2200	2,500	5.80	Jan. 13, 1969	0230	2,670	5.88	Jan. 16, 1970	0545	2,070	5.32
Jan. 26, 1967	0930	*3,380	6.50	Jan. 19, 1969	2130	3,040	6.20	Jan. 23, 1970	2130	*6,050	8.18
Jan. 30, 1967	1400	2,740	6.00	Feb. 5, 1969	2300	3,240	6.37	Jan. 27, 1970	0015	3,060	6.22
				Feb. 11, 1969	1700	*3,720	6.73	Mar. 4, 1970	1500	2,040	5.29
Jan. 14, 1968	1600	2,510	5.81								

No flow for long periods in each year.

Period of record: Maximum discharge, 12,500 cfs Jan. 5, 1965 (gage height, 11.48 ft), from rating curve extended above 2,500 cfs on basis of slope-area measurements at gage heights 7.3 and 11.48 ft; no flow at times in each year.

Flood of Apr. 7, 1963, reached a stage of 7.3 ft, from floodmarks (discharge, 4,600 cfs, by slope-area measurement).

REMARKS.--Records good. No regulation above station. Probably a few small diversions above station for irrigation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	15	27	214	35	16	3.0	1.2	0		
2		0	14	23	72	31	15	3.4	1.0	.20		
3		0	13	31	455	30	14	3.7	1.2	.10		
4		0	12	1,240	542	29	13	4.0	1.0	0		
5		0	11	684	175	79	12	4.0	1.0	0		
6		0	10	224	114	54	11	4.0	1.2	0		
7		1.1	9.3	137	92	42	10	4.3	2.2	0		
8		1.5	9.3	101	73	38	10	4.3	2.7	0		
9		1.2	8.6	76	62	36	14	4.6	2.0	0		
10		1.2	8.0	60	58	38	14	6.3	1.6	0		
11		1.2	10	46	54	37	13	6.3	1.4	0		
12		2.3	20	38	52	36	12	5.0	1.0	0		
13		200	15	33	48	35	10	4.3	1.0	0		
14		660	10	30	42	34	9.6	4.0	1.0	0		
15		770	8.6	25	39	33	8.4	3.7	.90	0		
16		111	6.8	22	37	32	7.8	3.4	1.0	0		
17		360	6.3	21	34	30	7.3	3.0	.80	0		
18		107	5.8	19	35	28	6.8	2.2	.60	0		
19		42	4.9	17	104	27	6.3	2.0	.50	0		
20		32	4.9	15	42	25	5.8	1.8	.30	0		
21		25	4.9	15	37	24	5.5	1.8	.30	0		
22		47	5.3	15	37	22	5.0	1.6	.50	0		
23		54	4.9	14	110	22	4.6	1.4	.50	0		
24		50	20	13	99	21	4.3	1.2	.30	0		
25		39	22	12	78	20	4.6	1.0	.10	0		
26		30	14	12	59	19	4.0	.90	.10	0		
27		28	12	10	44	19	3.7	.80	.10	0		
28		22	173	9.6	37	19	3.7	.80	0	0		
29		20	95	103	------	18	3.7	.80	0	0		
30		18	46	99	------	17	3.4	.90	0	0		
31		------	34	37	------	17	------	1.0	------	0		------
TOTAL	0	2,623.5	633.6	3,208.6	2,845	947	258.5	89.50	25.50	.30	0	0
MEAN	0	87.5	20.4	104	102	30.5	8.62	2.89	.85	.010	0	0
MAX	0	770	173	1,240	542	79	16	6.3	2.7	.20	0	0
MIN	0	0	4.9	9.6	34	17	3.4	.80	0	0	0	0
AC-FT	0	5,200	1,260	6,360	5,640	1,880	513	178	51	.6	0	0

CAL YR 1965 TOTAL 16,691.00 MEAN 45.7 MAX 3,210 MIN 0 AC-FT 33,110
WTR YR 1966 TOTAL 10,631.50 MEAN 29.1 MAX 1,240 MIN 0 AC-FT 21,090

11387800 NORTH FORK STONY CREEK NEAR NEWVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	26	9.7	222	18	26	72	24	10	.50	
2		0	519	9.7	154	18	22	70	347	8.5	.40	
3		0	136	9.1	123	18	26	70	126	8.5	.40	
4		0	739	9.1	102	16	27	70	70	7.9	.40	
5		0	475	9.1	88	14	60	68	75	6.7	.20	
6		0	118	8.5	77	14	116	58	63	6.2	.20	
7		0	72	8.5	70	13	292	54	56	5.7	.20	
8		0	52	7.9	63	12	88	54	44	5.7	.10	
9		0	46	7.9	57	13	65	50	45	5.2	.10	
10		0	111	7.9	52	18	152	45	40	4.3	.10	
11		0	60	7.3	50	50	187	42	39	3.9	.10	
12		0	50	7.3	46	51	86	39	51	3.5	.20	
13		0	56	6.7	44	40	70	32	48	2.8	.10	
14		0	48	6.2	39	27	60	30	36	2.5	0	
15		.10	40	5.7	36	26	56	27	33	1.9	0	
16		5.4	38	5.2	34	189	50	24	28	1.7	0	
17		.30	32	4.7	32	68	99	22	27	1.5	0	
18		.10	28	5.2	30	52	58	20	24	1.3	0	
19		75	26	5.7	26	44	442	18	24	1.3	0	
20		271	22	337	22	44	136	18	24	1.1	0	
21		101	20	798	22	45	289	16	22	1.0	0	
22		62	16	131	22	39	333	15	20	1.0	0	
23		24	16	68	22	34	448	14	20	.80	0	
24		17	16	969	22	27	272	13	20	.70	0	
25		12	14	232	26	26	178	12	18	.60	0	
26		9.6	12	1,160	20	26	154	12	16	.50	0	
27		8.4	12	481	18	22	133	13	16	.40	0	
28		39	11	590	18	22	107	13	15	.40	0	
29		38	11	767	------	20	92	13	14	.40	0	
30		21	11	791	------	45	80	12	11	.50	0	
31		------	10	504	------	36	------	12	------	.60	0	------
TOTAL	0	683.90	2,843	6,969.4	1,537	1,087	4,204	1,028	1,396	97.10	3.00	0
MEAN	0	22.8	91.7	225	54.9	35.1	140	33.2	46.5	3.13	.097	0
MAX	0	271	739	1,160	222	189	448	72	347	10	.50	0
MIN	0	0	10	4.7	18	12	22	12	11	.40	0	0
AC-FT	0	1,360	5,640	13,820	3,050	2,160	8,340	2,040	2,770	193	6.0	0

CAL YR 1966 TOTAL 10,901.30 MEAN 29.9 MAX 1,240 MIN 0 AC-FT 21,620
WTR YR 1967 TOTAL 19,848.40 MEAN 54.4 MAX 1,160 MIN 0 AC-FT 39,370

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.04	0	3.1	54	43	19	4.0	1.0	.12	.02	
2	.04	.02	0	2.8	245	38	18	4.0	.75	.09	.02	
3	.04	.02	11	2.5	114	33	14	4.0	1.0	.12	.01	
4	.04	0	5.7	2.5	78	32	13	4.3	.88	.09	.01	
5	.04	0	18	2.5	67	30	12	4.6	1.0	.09	.01	
6	.04	0	5.2	2.5	73	29	10	4.3	2.2	.12	.01	
7	.04	0	54	2.5	60	28	9.0	4.6	2.7	.05	0	
8	.04	0	16	2.8	49	34	8.4	4.3	1.8	.06	0	
9	.04	0	6.7	4.3	42	27	8.4	4.0	.75	.04	0	
10	.06	0	3.9	274	49	24	7.8	4.0	.52	.04	0	
11	.06	0	3.5	20	36	22	7.8	4.0	.40	.03	0	
12	.06	0	3.1	12	31	30	6.8	4.3	.36	.04	0	
13	.06	0	2.8	53	35	36	5.5	12	.32	.04	0	
14	.06	0	2.2	942	30	27	5.5	32	.29	.04	.01	
15	.06	0	4.3	272	27	23	5.5	13	.26	.04	0	
16	.04	0	3.5	92	337	49	5.0	9.6	.24	.04	0	
17	.04	0	4.3	45	594	34	4.6	7.3	.22	.04	0	
18	.04	0	24	31	128	28	4.6	6.8	.21	.03	0	
19	.04	0	7.3	25	828	24	4.6	6.8	.20	.02	.01	
20	.04	0	4.3	21	302	22	4.6	7.3	.19	.02	.02	
21	.04	0	3.5	18	250	22	4.3	4.0	.18	.02	.04	
22	.04	0	3.1	15	152	21	4.3	5.5	.16	.02	.02	
23	.04	0	3.1	14	130	20	4.3	5.5	.14	.01	.02	
24	.04	0	2.8	13	103	19	4.6	4.6	.13	.01	.01	
25	.04	0	3.1	11	85	18	4.0	4.3	.12	.01	.01	
26	.04	0	3.1	10	70	16	4.0	4.0	.10	.01	.02	
27	.04	0	3.1	8.4	60	15	3.7	2.7	.12	.02	.02	
28	.04	0	3.1	9.6	52	15	3.7	2.2	.12	.01	.01	
29	.04	0	3.1	1,090	45	15	3.4	1.6	.16	.01	0	
30	.04	0	3.1	262	------	15	3.7	1.2	.12	.01	0	
31	.04	------	3.1	90	------	14	------	1.0	------	.01	0	------
TOTAL	1.36	.08	214.0	3,353.5	4,126	803	214.1	181.8	16.64	1.30	.27	0
MEAN	.044	.003	6.90	108	142	25.9	7.14	5.86	.55	.042	.009	0
MAX	.06	.04	54	1,090	828	49	19	32	2.7	.12	.04	0
MIN	.04	0	0	2.5	27	14	3.4	1.0	.10	.01	0	0
AC-FT	2.7	.2	424	6,650	8,180	1,590	425	361	33	2.6	.5	0

CAL YR 1967 TOTAL 16,536.94 MEAN 45.3 MAX 1,160 MIN 0 AC-FT 32,800
WTR YR 1968 TOTAL 8,912.05 MEAN 24.3 MAX 1,090 MIN 0 AC-FT 17,680

11387800 NORTH FORK STONY CREEK NEAR NEWVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.01	.12	35	87	268	78	17	3.9	.98	.07	.01
2	0	.02	.12	32	72	254	75	17	3.5	.84	.07	.01
3	0	.02	.12	34	65	195	66	15	3.3	.77	.07	.01
4	0	.02	.12	54	63	158	58	15	3.5	.77	.07	0
5	0	.02	.12	58	745	144	72	13	3.7	.70	.07	0
6	0	.02	.12	48	485	134	70	12	3.5	.63	.07	.01
7	0	.03	.12	39	172	120	56	11	3.5	.63	.07	0
8	0	.03	.20	33	183	106	52	11	3.5	.56	.07	0
9	0	.03	.27	26	503	99	49	12	4.3	.56	.07	0
10	0	.03	123	22	280	87	47	12	5.4	.49	.07	0
11	0	.03	23	309	1,360	78	44	11	6.3	.49	.04	0
12	0	.04	10	1,160	505	75	46	11	6.0	.49	.02	0
13	0	.04	9.7	1,290	268	66	42	11	4.1	.49	.02	.01
14	.01	.09	88	249	753	60	41	12	3.3	.42	.02	.01
15	.01	.16	421	136	710	58	38	12	2.8	.42	.04	.01
16	0	.12	66	94	308	61	36	12	2.0	.35	.04	.01
17	0	.12	31	73	251	92	36	12	1.8	.28	.04	.02
18	0	.12	25	283	254	78	36	12	2.0	.21	.04	.02
19	0	.12	22	1,240	206	69	33	12	2.2	.21	.04	.04
20	0	.09	18	997	178	95	31	12	2.7	.14	.04	.04
21	0	.09	17	903	152	400	31	12	2.8	.07	.02	.04
22	0	.09	17	295	140	140	30	11	2.1	.07	.02	.02
23	0	.09	57	182	281	114	35	9.6	1.8	.07	.02	.02
24	0	.09	949	144	923	97	28	8.8	1.5	.04	.02	.04
25	0	.09	593	280	224	90	26	8.0	1.4	.04	.04	.02
26	0	.09	157	491	178	89	23	7.3	1.3	.04	.02	.01
27	0	.09	94	180	470	94	21	7.0	1.3	.04	.02	.02
28	0	.09	205	142	751	97	20	6.0	1.3	.04	.02	.02
29	0	.09	92	116	------	97	19	4.8	1.1	.07	.02	.02
30	.01	.12	58	150	------	96	18	3.9	1.0	.07	.02	.02
31	.01	------	43	101	------	89	------	3.5	------	.07	.01	------
TOTAL	.04	2.09	3,120.01	9,196	10,567	3,700	1,257	333.9	86.9	11.05	1.27	.43
MEAN	.001	.070	101	297	377	119	41.9	10.8	2.90	.36	.041	.014
MAX	.01	.16	949	1,290	1,360	400	78	17	6.3	.98	.07	.04
MIN	0	.01	.12	22	63	58	18	3.5	1.0	.04	.01	0
AC-FT	.08	4.1	6,190	18,240	20,960	7,340	2,490	662	172	22	2.5	.9

CAL YR 1968 TOTAL 11,818.75 MEAN 32.3 MAX 1,090 MIN 0 AC-FT 23,440
WTR YR 1969 TOTAL 28,275.69 MEAN 77.5 MAX 1,360 MIN 0 AC-FT 56,080

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.14	.42	12	109	45	22	11	1.5	.83	.03	.04
2	.01	.14	.42	11	93	41	21	11	1.5	.71	0	.01
3	.02	.14	.42	10	85	39	20	10	1.4	.67	0	.01
4	.02	.14	.42	9.6	77	606	20	8.7	1.3	.60	0	.02
5	.02	.04	.42	8.4	68	174	19	9.6	1.2	.54	.01	.04
6	.04	.02	.42	8.0	62	93	20	10	1.2	.47	.01	.04
7	.04	.07	.42	8.4	58	114	18	9.7	1.1	.43	.03	.03
8	.04	.14	.56	33	54	174	18	9.6	1.3	.40	.02	.03
9	.04	.14	.56	1,250	50	184	18	10	1.6	.38	.02	.03
10	.04	.07	.49	243	47	152	17	9.3	1.7	.38	.02	.03
11	.04	.01	.77	95	47	97	16	9.5	1.5	.38	.04	.03
12	.04	.02	93	106	79	83	16	11	1.2	.40	.03	.04
13	.04	.04	49	208	440	75	16	11	1.2	.35	.03	.07
14	.04	.04	7.0	1,060	135	68	17	10	1.2	.37	.04	.07
15	.07	.14	3.2	454	81	60	16	8.8	1.3	.45	.03	.20
16	.07	.21	2.1	938	345	55	16	8.4	1.2	.42	.02	.04
17	.04	.14	1.9	280	200	48	16	7.9	1.1	.38	.02	0
18	.04	.21	2.0	159	117	44	15	7.8	.97	.30	.01	0
19	.04	.28	404	207	90	41	14	8.2	.88	.28	.01	.02
20	.04	.28	232	271	78	40	14	8.8	.81	.25	.01	.01
21	.07	.28	190	605	68	38	14	8.6	.80	.23	.01	.01
22	.07	.28	50	291	61	36	13	8.2	.81	.18	.01	.01
23	.07	.28	262	2,120	57	34	13	7.0	.74	.19	.01	.04
24	.07	.35	138	937	54	32	13	5.6	.76	.20	.01	.03
25	.07	.35	55	327	50	29	13	4.4	.89	.17	.01	.02
26	.07	.42	35	500	48	28	13	3.9	.89	.12	.05	.01
27	.07	.42	25	805	46	26	13	4.5	.92	.11	.04	.01
28	.07	.42	20	256	48	26	13	6.2	1.1	.06	.03	.01
29	.07	.42	18	194	------	25	12	6.0	1.1	.06	.01	0
30	.07	.42	15	157	------	24	12	2.9	.91	.04	.03	0
31	.14	------	14	130	------	22	------	2.0	------	.03	.04	------
TOTAL	1.59	6.05	1,621.52	11,693.4	2,747	2,553	478	249.6	34.08	10.38	.63	.90
MEAN	.051	.20	52.3	377	98.1	82.4	15.9	8.05	1.14	.33	.020	.030
MAX	.14	.42	404	2,120	440	606	22	11	1.7	.83	.05	.20
MIN	.01	.01	.42	8.0	46	22	12	2.0	.74	.03	0	0
AC-FT	3.2	12	3,220	23,190	5,450	5,060	948	495	68	21	1.2	1.8

CAL YR 1969 TOTAL 26,782.71 MEAN 73.4 MAX 1,360 MIN 0 AC-FT 53,120
WTR YR 1970 TOTAL 19,396.15 MEAN 53.1 MAX 2,120 MIN 0 AC-FT 38,470

11387990 SOUTH DIVERSION CANAL NEAR ORLAND, CALIF.

LOCATION.--39°48'36", long 122°19'45", in NE¼ sec.32, T.23 N., R.4 W., Tehama County, on left bank 0.4 mile downstream from Black Butte Dam and 8.2 miles northwest or Orland.

PERIOD OF RECORD.--July 1955 to September 1970. Prior to October 1961, published as an adjustment to Stony Creek at Black Butte damsite, near Orland.

GAGE.--Water-stage recorder and Parshall flume. Datum of gage is 372.64 ft above mean sea level. Prior to Oct. 23, 1956, at site 0.5 mile upstream at different datum. Oct. 23, 1956, to Sept. 30, 1960, at present site and datum. Oct. 1, 1960, to Sept. 30, 1961, present site at datum 1.00 ft lower.

AVERAGE DISCHARGE.--15 years, 108 cfs (78,250 acre-ft per year).

EXTREMES.--Period of record: Maximum daily discharge, 320 cfs May 8, 1969; no flow at times in most years.

REMARKS.--Records good. Canal diverts from Black Butte Reservoir at right end of Black Butte Dam; water is used for irrigation. A pump with a capacity of 6 cfs diverted water at times above station and was included in the canal record prior to Mar. 1, 1970. Total amounts diverted in water years 1966-70 are as follows: 1,020; 846; 941; 992; and 73 acre-ft, respectively.

DISCHARGE, IN CUBIC FFET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	194	96	2.8	4.6	3.8	3.8	242	289	167	237	233	185
2	204	88	2.6	4.9	2.8	4.3	262	251	176	251	234	210
3	208	73	2.5	4.9	2.5	4.3	254	233	166	217	259	209
4	200	36	2.8	5.2	3.5	4.3	194	220	227	223	263	193
5	164	23	3.0	5.2	4.0	4.3	196	208	238	222	246	209
6	140	38	3.3	4.6	3.8	4.3	204	195	214	191	250	179
7	160	49	3.5	3.8	1.9	4.3	209	214	211	155	255	171
8	187	16	3.5	2.5	3.8	4.3	210	192	237	199	237	173
9	166	3.8	3.5	1.9	4.3	4.3	188	162	249	231	226	182
10	147	5.2	2.8	3.8	3.8	4.3	164	188	250	251	217	181
11	139	4.3	2.5	5.0	4.0	4.3	127	205	244	241	197	179
12	139	3.7	2.5	3.8	4.0	4.3	134	234	214	224	210	157
13	161	3.1	2.5	3.8	4.0	4.3	159	226	196	217	240	159
14	148	2.4	.80	3.8	4.0	4.3	164	257	231	226	211	160
15	115	1.8	.60	3.8	3.8	4.6	168	234	262	223	216	168
16	115	1.1	2.3	3.5	3.5	4.6	180	216	278	236	255	184
17	121	.80	3.0	3.5	3.8	4.6	197	199	274	248	259	171
18	109	.60	3.8	3.5	3.5	4.6	214	216	278	220	248	162
19	123	.10	3.8	3.5	3.5	4.6	234	206	288	216	248	138
20	90	.10	3.5	3.5	3.5	4.0	228	218	289	226	246	160
21	86	0	4.6	3.5	3.5	27	218	248	274	253	222	172
22	72	0	5.7	3.5	3.5	40	214	257	278	282	199	127
23	51	1.6	6.7	3.5	3.5	50	208	237	284	292	196	111
24	65	4.9	6.7	3.8	3.5	55	194	199	245	259	197	149
25	91	4.4	6.7	3.8	3.5	63	215	234	232	240	188	165
26	109	4.0	5.8	3.8	3.8	77	244	251	237	277	199	159
27	123	3.5	5.2	3.8	3.8	121	231	264	217	231	208	124
28	136	2.3	5.2	3.8	3.2	136	257	267	237	204	202	134
29	136	2.3	4.9	3.8	------	150	272	228	263	181	203	138
30	135	2.5	5.2	3.8	------	189	285	182	271	202	210	142
31	102	------	5.2	4.0	------	212	------	145	------	231	194	------
TOTAL	4,136	471.50	117.50	120.2	100.1	1,206.7	6,266	6,875	7,227	7,106	6,968	4,951
MEAN	133	15.7	3.79	3.88	3.58	38.9	209	222	241	229	225	165
MAX	208	96	6.7	5.2	4.3	212	285	289	289	292	263	210
MIN	51	0	.60	1.9	1.9	3.8	127	145	166	155	188	111
AC-FT	8,200	935	233	238	199	2,390	12,430	13,640	14,330	14,090	13,820	9,820

CAL YR 1965 TOTAL 40,029.10 MEAN 110 MAX 271 MIN 0 AC-FT 79,400
WTR YR 1966 TOTAL 45,545.00 MEAN 125 MAX 292 MIN 0 AC-FT 90,340

11387990 SOUTH DIVERSION CANAL NEAR ORLAND, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	146	65	1.3	2.8	.90	1.5	4.9	3.8	215	314	228	189
2	151	80	1.5	2.8	.60	1.5	4.9	3.5	161	304	274	208
3	134	90	1.3	2.8	.10	1.5	14	3.2	100	299	312	217
4	110	87	1.3	2.8	1.0	1.5	20	13	56	248	290	224
5	115	67	1.2	2.8	2.1	1.5	20	24	47	232	281	199
6	92	28	1.2	2.8	2.1	1.5	20	24	49	262	281	231
7	114	0	1.3	2.8	1.8	1.5	20	24	52	276	270	239
8	112	3.7	2.0	2.8	1.1	1.1	20	83	61	278	249	226
9	91	5.0	2.8	3.0	1.1	.20	20	116	96	262	228	216
10	129	4.3	2.8	3.0	1.1	.30	20	108	156	268	209	214
11	148	5.4	2.8	3.2	1.1	.30	20	103	201	273	215	212
12	148	4.8	2.8	3.2	1.1	.30	20	121	222	273	248	196
13	141	4.0	2.9	3.2	1.1	.20	10	124	248	273	269	192
14	133	4.2	2.5	3.2	1.3	.20	3.5	123	268	266	282	192
15	144	4.3	2.5	3.2	1.3	8.0	4.3	193	278	290	300	188
16	128	3.8	2.5	3.0	1.3	5.6	4.9	220	292	252	303	174
17	98	3.8	2.5	3.0	1.3	.10	4.9	258	309	247	286	164
18	80	3.8	2.5	3.0	1.3	.10	4.9	269	318	249	299	192
19	68	4.2	2.5	3.2	1.3	.20	4.9	282	266	262	265	202
20	84	4.2	2.5	3.2	1.3	.40	4.9	290	230	284	217	209
21	83	4.0	2.5	3.0	1.3	8.0	4.9	235	202	296	195	223
22	76	4.0	2.5	2.1	1.3	12	4.9	192	156	293	193	189
23	61	4.0	2.5	1.5	1.3	11	4.9	193	234	281	219	184
24	66	4.0	2.5	.60	1.5	11	4.6	216	226	271	230	199
25	89	3.1	2.5	0	1.4	11	4.6	233	292	271	235	202
26	102	4.0	2.5	.20	1.3	11	4.9	255	267	285	262	194
27	98	.20	2.7	.30	1.5	23	4.9	297	259	271	254	166
28	85	.50	2.8	.30	1.5	44	4.9	279	275	257	237	149
29	87	.10	2.8	.10	------	56	4.6	238	278	247	222	144
30	87	.50	2.8	.80	------	31	4.3	224	292	217	216	135
31	78	------	2.8	1.0	------	4.9	------	223	------	230	193	------
TOTAL	3,278	496.90	71.6	69.70	35.40	250.40	293.6	4,970.5	6,106	8,331	7,762	5,869
MEAN	106	16.6	2.31	2.25	1.26	8.08	9.79	160	204	269	250	196
MAX	151	90	2.9	3.2	2.1	56	20	297	318	314	312	239
MIN	61	0	1.2	0	.10	.10	3.5	3.2	47	217	193	135
AC-FT	6,500	986	142	138	70	497	582	9,860	12,110	16,520	15,400	11,640

CAL YR 1966 TOTAL 44,666.50 MEAN 122 MAX 292 MIN 0 AC-FT 88,600
WTR YR 1967 TOTAL 37,534.10 MEAN 103 MAX 318 MIN 0 AC-FT 74,450

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	121	124	9.1	9.0	4.6	5.5	64	240	172	237	197	254
2	118	96	8.4	9.1	5.5	8.7	70	226	208	239	203	264
3	86	93	8.4	9.1	4.6	8.4	69	233	219	258	205	265
4	90	117	8.4	9.0	4.6	8.4	69	246	222	269	182	249
5	104	123	8.4	9.1	4.6	6.4	69	233	210	251	220	190
6	140	80	8.4	9.1	4.6	4.9	69	240	204	228	244	154
7	156	75	8.4	9.1	4.6	4.9	80	246	204	222	240	110
8	137	77	8.4	9.1	4.6	4.6	120	232	212	192	243	104
9	129	52	8.4	9.4	4.6	4.3	177	251	199	216	251	106
10	142	42	8.4	9.4	4.3	4.0	241	242	196	236	206	124
11	161	59	8.7	9.4	4.3	4.0	285	233	198	247	168	152
12	156	30	8.7	9.4	4.3	4.6	281	196	206	250	164	175
13	132	15	8.7	9.4	4.3	4.6	261	184	209	254	175	192
14	117	11	8.7	10	4.3	4.6	258	186	222	230	182	203
15	92	11	8.7	9.6	4.3	4.6	214	166	230	195	217	217
16	77	22	8.7	9.1	5.2	4.9	221	180	236	235	203	233
17	90	25	8.7	9.1	5.5	4.9	213	224	235	234	165	238
18	93	20	8.7	9.1	3.8	4.6	202	239	228	226	124	223
19	93	17	8.7	9.1	4.7	4.9	186	216	215	206	124	178
20	92	2.3	8.7	9.1	1.6	4.9	225	171	250	227	119	138
21	134	1.1	9.1	9.1	1.6	4.9	242	169	263	253	38	124
22	124	.40	9.1	9.1	4.0	5.2	229	168	275	262	0	102
23	106	.30	9.1	3.6	4.0	5.5	240	182	269	272	5.3	110
24	97	.20	9.1	.70	4.6	5.5	253	174	234	244	8.2	136
25	80	.10	9.4	.10	3.0	5.5	249	192	232	250	7.7	162
26	72	3.6	9.4	0	3.2	21	262	173	242	239	49	191
27	72	14	9.1	0	3.0	30	268	197	264	229	80	200
28	67	13	9.1	0	1.9	30	266	212	266	213	105	212
29	59	1.5	9.1	4.8	2.1	38	274	230	279	214	160	206
30	84	1.6	9.4	6.0	------	44	275	219	265	214	218	209
31	102	------	9.4	5.2	------	44	------	156	------	205	258	------
TOTAL	3,323	1,127.10	273.0	223.30	116.3	340.3	5,932	6,456	6,864	7,247	4,761.2	5,421
MEAN	107	37.6	8.81	7.20	4.01	11.0	198	208	229	234	154	181
MAX	161	124	9.4	10	5.5	44	285	251	279	272	258	265
MIN	59	.10	8.4	0	1.6	4.0	64	156	172	192	0	102
AC-FT	6,590	2,240	541	443	231	675	11,770	12,810	13,610	14,370	9,440	10,750

CAL YR 1967 TOTAL 38,410.70 MEAN 105 MAX 318 MIN 0 AC-FT 76,190
WTR YR 1968 TOTAL 42,084.20 MEAN 115 MAX 285 MIN 0 AC-FT 83,470

11387990 SOUTH DIVERSION CANAL NEAR ORLAND, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 196B TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	186	5.7	.20	.80	.60	.20	4.6	144	265	248	270	200
2	164	7.0	.20	.80	.60	.30	.70	173	253	249	282	189
3	130	7.6	.10	.60	.60	.10	.50	194	263	228	272	190
4	112	7.7	.20	.40	.80	.20	.40	202	264	265	280	205
5	98	7.7	.30	.40	2.1	.60	.40	218	252	282	260	249
6	92	7.7	.30	.40	1.0	.40	.40	261	225	289	236	260
7	73	8.0	.30	.40	.80	.40	.40	302	228	269	234	247
8	68	7.0	.30	.70	.80	.60	.40	320	239	258	212	247
9	75	4.2	.40	.70	1.1	.60	.40	312	234	259	225	196
10	89	3.6	.60	.70	.80	.70	6.1	30B	214	244	224	201
11	109	3.5	.40	.80	1.9	.70	8.4	278	204	238	239	182
12	100	3.5	.40	.80	1.3	.80	8.4	255	212	229	260	161
13	70	3.5	.60	.80	.70	.80	10	246	188	198	269	160
14	50	3.5	.80	.70	1.0	.80	31	205	183	209	264	178
15	39	3.5	1.1	.70	1.1	.80	31	240	193	217	243	184
16	17	3.5	.40	.70	.20	.80	56	254	200	236	230	194
17	17	3.5	.40	.80	.10	.80	64	238	221	248	210	183
18	20	3.5	.40	.80	.60	.80	64	237	233	257	180	195
19	11	3.5	.60	.80	.20	.80	64	225	221	270	195	176
20	7.0	3.5	.60	.90	.10	.80	64	246	220	276	199	152
21	30	3.5	.30	.60	.10	1.3	182	265	235	276	211	158
22	74	3.3	.30	.40	.10	.70	271	277	248	266	220	177
23	79	3.2	1.1	.40	.60	.70	310	280	252	262	220	164
24	80	3.0	1.7	.40	1.3	.60	299	250	256	233	220	145
25	90	2.2	1.0	.40	.10	7.8	270	240	261	226	221	151
26	96	.30	3.2	.40	.10	14	244	227	234	243	229	170
27	103	.30	.60	.30	.70	10	238	226	204	206	232	194
28	104	.40	.70	.50	1.3	10	168	241	237	200	187	204
29	36	.40	.40	.70	------	10	139	228	232	215	163	186
30	3.4	.20	.70	.40	------	10	130	246	238	239	159	168
31	7.8	------	.70	.60	------	10	------	252	------	248	187	------
TOTAL	2,230.2	118.00	19.30	18.80	20.70	87.10	2,666.10	7,590	6,909	7,583	7,033	5,666
MEAN	71.9	3.93	.62	.61	.74	2.81	88.9	245	230	245	227	189
MAX	186	8.0	3.2	.90	2.1	14	310	320	265	289	282	260
MIN	3.4	.20	.10	.30	.10	.10	.40	144	183	198	159	145
AC-FT	4,420	234	38	37	41	173	5,290	15,050	13,700	15,040	13,950	11,240

CAL YR 1968 TOTAL 39,728.60 MEAN 109 MAX 285 MIN 0 AC-FT 78,800
WTR YR 1969 TOTAL 39,941.20 MEAN 109 MAX 320 MIN .10 AC-FT 79,220

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	177	16	12	2.3	2.5	1.3	245	182	230	194	284	160
2	165	3.0	22	2.3	3.2	2.2	232	190	230	212	247	151
3	159	86	30	2.3	3.5	.70	218	206	226	238	212	163
4	164	123	34	2.3	3.2	3.0	236	180	223	251	203	202
5	134	80	34	2.3	4.9	2.1	232	170	264	268	225	242
6	124	32	12	2.3	4.1	1.5	214	158	270	280	232	222
7	134	7.6	5.5	2.3	2.5	2.3	192	139	270	290	217	173
8	139	6.6	17	2.3	2.8	1.9	135	159	247	264	226	200
9	132	7.0	8.5	2.3	2.9	2.3	129	187	198	246	205	212
10	124	13	3.0	1.8	2.9	1.9	161	205	139	231	230	203
11	120	7.1	3.0	1.2	2.6	1.9	205	220	175	240	231	226
12	109	.10	3.0	1.0	2.5	1.9	214	220	210	226	255	229
13	134	.80	2.9	1.0	5.0	1.7	215	194	222	146	265	211
14	152	4.5	2.6	1.0	5.8	1.7	216	188	232	201	255	172
15	47	5.0	2.9	1.0	5.8	1.7	171	209	186	216	261	159
16	.10	4.9	3.2	.80	3.6	1.9	145	234	148	231	238	151
17	4.4	4.9	3.2	.40	2.5	1.3	162	240	174	229	216	152
18	5.6	5.2	3.2	.50	3.0	.60	192	229	216	251	203	197
19	6.7	5.5	3.2	2.2	2.6	.40	203	213	246	266	168	211
20	5.4	5.5	3.1	3.2	2.7	.40	198	206	257	250	167	211
21	5.4	5.5	2.8	3.2	2.8	.10	172	190	260	256	205	184
22	5.5	5.0	2.8	3.2	2.5	.10	139	199	264	266	232	176
23	5.5	4.9	3.1	3.2	2.5	.10	147	243	254	274	214	165
24	5.5	12	2.7	3.2	2.5	29	187	245	257	284	216	149
25	5.5	19	2.5	3.2	2.5	54	222	244	278	234	215	163
26	5.5	17	2.4	3.2	2.5	65	223	255	286	199	219	182
27	23	6.8	2.3	3.2	2.5	108	233	229	274	187	203	162
28	56	6.6	2.3	3.0	2.5	143	215	236	196	203	206	151
29	39	6.1	2.3	2.9	------	164	197	260	169	208	227	169
30	42	6.1	2.3	2.6	------	174	198	274	169	218	212	183
31	45	------	2.3	2.5	------	203	------	269	------	245	176	------
TOTAL	2,274.10	506.70	236.1	68.20	88.9	973.00	5,848	6,573	6,770	7,304	6,865	5,531
MEAN	73.4	16.9	7.62	2.20	3.18	31.4	195	212	226	236	221	184
MAX	177	123	34	3.2	5.8	203	245	274	286	290	284	242
MIN	.10	.10	2.3	.40	2.5	.10	129	139	139	146	167	149
AC-FT	4,510	1,010	468	135	176	1,930	11,600	13,040	13,430	14,490	13,620	10,970

CAL YR 1969 TOTAL 40,590.60 MEAN 111 MAX 320 MIN .10 AC-FT 80,510
WTR YR 1970 TOTAL 43,038.00 MEAN 118 MAX 290 MIN .10 AC-FT 85,370

11387995 BLACK BUTTE LAKE NEAR ORLAND, CALIF.
(Formerly published as Black Butte Reservoir near Orland)

LOCATION.--Lat 39°48'50", long 122°20'12", in SE¼SW¼ sec.29, T.23 N., R.4 W., Tehama County, in control tower in right abutment of main dam on Stony Creek, 8 miles northwest of Orland.

DRAINAGE AREA.--736 sq mi (revised).

PERIOD OF RECORD.--October 1963 to September 1970. Prior to Oct. 1, 1965, published as Black Butte Reservoir near Orland.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

EXTREMES.--Maximums and minimums (contents in acre-feet, elevation in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum		
Wtr yr	Date	Contents	Elevation	Date	Contents	Elevation
1966	May 18-20, 1966	118,300	463.38	Sept.30, 1966	35,000	433.52
1967	June 8, 9, 1967	149,700	471.19	Nov. 13, 14, 1966	23,200	426.42
1968	Feb. 20, 1968	109,200	460.93	Nov. 8, 9, 1967	24,300	427.20
1969	May 14, 1969	137,376	468.26	Nov. 17, 1968	17,631	422.33
1970	Jan. 27, 1970	131,834	466.89	Feb. 10, 1970	16,127	421.06

Period of record: Maximum contents, 149,700 acre-ft June 8, 9, 1967 (elevation, 471.19 ft); minimum since initial season of operation, 9,420 acre-ft Oct. 27, 1964 (elevation, 413.83 ft).

REMARKS.--Reservoir is formed by seven earthfill dams; storage began Oct. 28, 1963. Usable capacity, 150,000 acre-ft between elevations 414.6 (minimum operating level) and 473.5 ft (spillway crest) above mean sea level. Additional storage of 10,000 acre-ft is not available for release. South Diversion Canal (see station 11397990) diverts at right end of dam. Water is released down Stony Creek for irrigation. Records, including extremes, represent total contents.

COOPERATION.--Record of contents furnished by Corps of Engineers and prior to October 1968 rounded to Geological Survey standards.

Capacity table, water years 1966-70 (elevation, in feet, and contents, in acre-feet)

420.0	14,950	450.0	73,660	470.0	144,621
430.0	28,788	460.0	105,925	480.0	191,348
440.0	48,072				

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40500	38300	54900	61800	86200	78600	101300	114900	117200	86600	58700	43100
2	40600	38300	55000	62000	81300	79600	101200	114800	116700	85500	58200	42300
3	40600	38300	55200	62300	78400	80500	101100	115400	115900	84400	57900	41700
4	40500	38400	55400	72800	83400	81400	101500	115900	115000	83400	57500	40900
5	40500	38400	55600	84700	81200	82500	102300	116400	114100	82400	57100	40100
6	40600	38400	55800	85300	75800	83600	103100	116800	113200	81400	56600	39800
7	40600	38500	56000	81800	68900	84600	103800	117100	112400	80400	56100	39600
8	40600	38600	56200	77600	65100	85700	104500	117200	111500	79300	55700	39500
9	40600	38700	56300	74300	64600	87100	105300	117500	110600	78100	55300	39300
10	40600	38700	56500	74000	65200	89000	106600	117700	109600	77100	54800	39100
11	40800	38700	56700	76200	65800	90900	108100	117800	108600	76000	54500	39000
12	41000	38800	56800	78000	66300	92700	109600	118000	107700	75100	54100	38900
13	41000	39600	57000	79500	66800	94600	110900	118000	106700	74300	54800	38800
14	41100	42400	57100	80700	67100	96600	111900	118000	106000	73300	53600	38700
15	41200	46800	57200	81500	67300	97900	112700	118000	104900	72500	53200	38600
16	41200	47800	57200	82100	67000	98800	113400	118100	103900	71600	52600	38300
17	41100	49300	57400	82700	66800	99500	114200	118200	102800	70800	51900	38200
18	41100	50900	57400	83300	67300	100000	114600	118300	101700	69900	51300	38000
19	41000	51700	57500	83700	68600	100300	115000	118300	100700	69100	50700	37800
20	41000	52200	57600	84200	70000	100400	115200	118300	99400	68200	50100	37600
21	40900	52500	57600	84600	71200	100900	115400	118100	98300	67400	49600	37400
22	40800	52800	57700	85000	72300	101500	115500	118000	97200	66400	49200	37300
23	40600	53100	57700	85400	73700	101400	115700	117900	96200	65100	48700	37400
24	40300	53300	57900	85800	75000	101100	115900	117800	94900	63900	48100	37300
25	40000	53700	58200	86100	76100	100900	116000	117800	94000	63100	47700	37200
26	39600	54000	58400	86500	76800	100900	115800	117600	93000	62200	47100	37100
27	39200	54200	58500	86700	77300	100900	115800	117500	92000	61400	46500	36600
28	38800	54400	59400	87000	77700	101000	115700	117300	91000	60800	45900	36200
29	38700	54600	60500	87800	---	101000	115400	117200	89700	60300	45200	35600
30	38500	54800	61000	88800	---	101200	115200	117200	88100	59700	44500	35000
31	38400	---	61500	88400	---	101300	---	117300	---	59200	43800	---
MAX	41200	54800	61500	88800	86200	101500	116000	118300	117200	86600	58700	43100
MIN	38400	38300	54900	61800	64600	78600	101100	114800	88100	59200	43800	35000
(†)	435.31	442.90	445.60	454.79	451.37	458.68	462.56	463.12	454.70	444.71	438.00	433.52
(‡)	-2100	+16500	+6700	+26900	-10700	+23600	+13900	+2100	-29200	-28900	-15400	-8800
(††)	998	296	298	424	381	757	1768	2198	2600	2286	1927	1335

CAL YR 1965 MAX 136300 MIN 20200 ‡ +38600
WTR YR 1966 MAX 118300 MIN 35000 ‡ -5400

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.
†† EVAPORATION, IN ACRE-FEET.

11387995 BLACK BUTTE LAKE NEAR ORLAND, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34600	24600	31400	78700	68300	68300	104300	128800	140300	129600	97400	62800
2	34400	24200	35600	78900	61100	68900	104300	129400	142200	128300	96200	61900
3	34200	23800	38400	79000	57200	69600	105000	129600	144600	127000	95200	60800
4	34000	23500	42500	79100	55700	70300	106500	130200	145900	125600	94000	59800
5	34000	23400	50800	79300	53200	71000	107600	131100	147000	124400	92900	58800
6	34000	23600	54800	79300	52200	71600	109200	132100	148200	123000	91700	57700
7	34000	23700	58100	79400	52700	71800	112000	133400	149100	121600	90600	56600
8	34000	23700	60500	79500	54100	72100	114100	135100	149700	120400	89500	55500
9	34000	23600	62200	79600	55600	72500	116100	137000	149700	119300	88400	54700
10	33700	23500	64400	79700	57200	72800	118300	138800	149500	118000	87200	53800
11	33300	23400	66100	79800	58700	73400	120100	139800	149200	117000	86100	52800
12	32600	23300	67800	79900	60100	74100	120900	140300	148900	116000	84900	51800
13	32000	23200	69700	80000	61400	74800	121400	140800	148400	115000	83700	50800
14	31500	23200	71400	80000	62300	75400	121800	141100	147700	113900	82400	49600
15	31000	23300	72800	80200	62800	76300	122400	141300	147200	112800	81200	48600
16	30500	23600	73900	80100	63300	81300	122900	141800	146300	111700	80000	47400
17	30000	23700	74500	80200	63700	86700	123300	142200	145500	110700	78700	46400
18	29700	23700	75100	80300	63700	90300	124000	142800	144500	109800	77400	45300
19	29300	24300	75600	80300	63800	93400	125400	143100	143500	108800	76200	44100
20	28800	26300	76000	82000	64400	95700	126200	143400	142600	107700	75100	42800
21	28500	27500	76400	92600	65000	97500	128200	143800	141700	106700	74000	41600
22	28100	28200	76700	93100	65700	99000	131400	144200	140700	105900	72900	40400
23	27900	28500	77000	84000	66200	100100	135100	144500	139600	105100	71800	39200
24	27600	28600	77300	80100	66800	100900	139000	144500	138400	104300	70700	38100
25	27300	28700	77500	71100	67100	101600	140800	144300	137100	103500	69600	36900
26	26900	28800	77700	68100	67300	102200	139800	144000	136000	102800	68400	35700
27	26500	29000	77900	65500	67600	102500	137700	143400	134900	101900	67300	34600
28	26200	29500	78100	65100	67900	102700	135300	142900	133600	101000	66200	33500
29	25700	30300	78300	74900	---	102800	132700	142300	132400	100100	66200	32600
30	25300	30800	78400	79000	---	103100	129900	141500	131000	99300	64400	31600
31	24900	---	78600	76500	---	103800	---	140600	---	98500	63600	---
MAX	34600	30800	78600	93100	68300	103800	140800	144500	149700	129600	97400	62800
MIN	24900	23200	31400	65100	52200	68300	104300	128800	131000	98500	63600	31600
(†)	427.60	431.21	451.65	450.95	448.00	459.40	466.41	469.05	466.69	457.85	446.40	431.62
(‡)	-10100	+5900	+47800	-2100	-8600	+35900	+26100	+10700	-9600	-32500	-34900	-32000
(††)	941	282	231	356	457	572	645	2204	2558	3083	2707	1570

CAL YR 1966 MAX 118300 MIN 23200 ‡ +17100
WTR YR 1967 MAX 149700 MIN 23200 ‡ -3400

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.
†† EVAPORATION, IN ACRE-FEET.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30500	25300	24700	26800	61000	55300	89600	76200	60200	47600	38700	28200
2	29700	25200	24600	26800	62800	56300	90500	75200	59800	47200	38300	28000
3	29200	25000	24900	26800	64600	57100	91300	74500	59500	47000	37800	27700
4	28800	24900	25200	26700	65900	57600	92000	73700	59100	46900	37400	27700
5	28600	24700	25700	26700	67100	58000	92600	72900	58800	46700	36900	27900
6	28500	24600	25900	26700	68600	58700	93000	72200	58600	46700	36400	28200
7	28500	24500	26200	26700	70200	59400	93400	71500	58300	46600	35700	28500
8	28600	24300	26400	26600	71800	60200	93700	70700	58100	46600	35000	28800
9	28700	24300	26500	26700	73200	61000	93700	69900	57700	46500	34400	28900
10	28700	24400	26500	28500	74400	61900	93200	69000	57500	46400	33600	28800
11	28700	24400	26500	29100	75300	62600	92100	68200	57100	46200	33100	28400
12	28700	24400	26500	29300	76100	63500	91000	67500	56800	46000	32600	28000
13	28700	24700	26500	29800	77000	64700	90400	66800	56500	45800	32100	27500
14	28700	24900	26400	37100	77700	65800	90000	66300	56200	45700	31500	27100
15	28700	24900	26400	43500	78300	66900	89700	65700	55700	45600	31400	26500
16	28800	24900	26400	45800	80100	68600	89300	65000	55300	45500	31300	25900
17	28700	24800	26300	47000	87500	70700	88700	64200	54900	45400	31200	25600
18	28500	24700	26400	47800	92800	72500	88400	63200	54400	45400	31200	25700
19	28300	24600	26400	48400	102100	74200	88200	62500	54000	44900	31400	25900
20	27900	24700	26400	48800	109200	75700	88000	62000	53500	44300	31500	26200
21	27500	24700	26400	49300	102400	77300	87400	61900	52900	43700	31800	26500
22	27100	24800	26300	49600	92300	78600	86600	62000	52400	43000	31800	26700
23	26800	24800	26300	50000	80700	80000	85600	62000	51700	42300	31800	26800
24	26500	24800	26200	50300	67800	81100	84400	62000	51200	41800	31700	26700
25	26300	24800	26200	50600	57900	82400	83200	61800	50800	41200	31600	26600
26	26100	24800	26300	50800	55300	83600	81900	61800	50300	40700	31300	26300
27	25900	24700	26400	51000	54600	84700	80700	61500	49800	40300	30900	26000
28	25900	24600	26500	51500	53800	85600	79600	61200	49100	39900	30300	25700
29	25700	24700	26700	56700	54000	86600	78500	60900	48600	39600	29600	25400
30	25600	24800	26700	59300	---	87600	77300	60500	48100	39200	28800	25100
31	25400	---	26800	60200	---	88500	---	60400	---	39000	28400	---
MAX	30500	25300	26800	60200	109200	88500	93700	76200	60200	47600	38700	28900
MIN	25400	24300	24600	26600	53800	55300	77300	60400	48100	39000	28400	25100
(†)	427.92	427.50	428.76	445.10	442.57	454.83	451.21	445.18	440.00	435.62	429.79	427.71
(‡)	-6200	-600	+2000	+33400	-6200	+34500	+11200	-16900	-12300	-9100	-10600	-3300
(††)	826	440	361	263	312	660	1521	1369	1797	1662	1234	1096

CAL YR 1967 MAX 149700 MIN 24300 ‡ -51800
WTR YR 1968 MAX 109200 MIN 24300 ‡ -6500

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.
†† EVAPORATION, IN ACRE-FEET.

11387995 BLACK BUTTE LAKE NEAR ORLAND, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24888	18465	18051	41432	23172	36226	87404	135703	126745	96934	63535	31702
2	24735	18478	18038	41777	21389	33339	91562	135825	125734	96161	62796	31038
3	24674	18465	18026	42205	19871	29342	92291	135825	124766	95191	62114	30605
4	24704	18440	17976	43090	19368	26057	98287	135784	123687	94293	61283	30090
5	24796	18364	17976	44554	24066	25993	101096	135540	122881	93301	60228	29545
6	24888	18314	17964	46175	32818	26805	104055	135499	121735	92282	59236	28704
7	24857	18226	17951	47676	34391	26342	106849	135459	120709	91302	58206	28123
8	24796	18163	17964	49116	33899	25632	109321	135499	119612	90262	57188	27679
9	24475	18088	18088	50085	37267	24719	111785	135621	118558	89165	56132	27516
10	24021	17988	19433	50676	40307	24369	114057	135987	117509	88106	55065	27418
11	23543	17926	20450	52385	50130	23305	116390	136313	116538	87086	53988	27386
12	23055	17827	20847	65087	57932	22602	118746	136722	115424	86167	52923	27386
13	22660	17704	21166	84062	59439	22587	121126	136967	114352	85221	51803	27418
14	22414	17766	21855	85914	61932	22893	122498	137376	113359	84280	50585	27451
15	22140	17741	24628	82228	68244	23320	123610	137294	112187	83313	49475	27435
16	21997	17692	25789	76418	69847	23871	124650	137049	110949	82104	48337	27402
17	21869	17631	26278	69621	68467	25088	125695	136844	109970	80933	47216	27353
18	21699	17704	26549	63854	66201	27500	126901	136517	108889	79709	46175	27272
19	21558	17852	26708	67659	62796	30261	127917	136191	107920	78433	45169	27159
20	21459	17902	26885	78494	58632	33303	129097	135662	106991	77137	44091	27094
21	21305	17902	27030	85820	53702	38907	130045	135175	106102	75731	43007	26982
22	20986	17877	27159	81210	48604	43401	131116	134526	105182	74426	41777	26789
23	20696	17840	27484	70359	44070	47413	132274	133840	104125	73014	40607	26565
24	20396	17852	31772	58256	45254	51411	133075	133276	103145	71765	39495	26389
25	20045	17902	35330	49813	41960	55307	133639	132514	102100	70530	38362	26183
26	19658	17976	36981	48848	37419	59211	134042	131874	101200	69366	37286	25978
27	19250	18013	37899	44364	34263	63482	134324	131077	100338	68021	36169	25742
28	18797	18063	39358	45617	37343	68160	134769	130362	99515	67024	35127	25398
29	18720	18088	40247	36057	---	73073	135215	129452	98594	66037	34172	25135
30	18694	18063	40787	28454	---	78101	135459	128585	97846	64926	33375	24919
31	18592	---	41169	25073	---	83002	---	127604	---	64201	32533	---
MAX	24888	18478	41169	85914	69847	83002	135459	137376	126745	96934	63535	31702
MIN	18592	17631	17951	25073	19368	22587	87404	127604	97846	64201	32533	24919
(†)	423.10	422.68	436.73	427.69	434.78	453.09	467.79	465.82	457.67	446.63	432.17	427.59
(‡)	-6512	-529	+23106	-16096	+12270	+45659	+52457	-7855	-29758	-33645	-31668	-7614
(††)	632	191	152	154	164	557	1372	2918	2504	2892	2195	1150

CAL YR 1968 MAX 109200 MIN 17631 ‡ +14412
WTR YR 1969 MAX 137376 MIN 17631 ‡ -185

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.
†† EVAPORATION, IN ACRE-FEET.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24765	21855	18758	60638	73014	36754	77137	76149	68860	55428	45810	41777
2	24506	22012	18592	60947	57932	37918	76837	76238	68216	55282	45446	41899
3	24445	21898	18389	61128	46499	38966	76657	76298	67493	55138	45147	41899
4	24628	21671	18138	61231	37841	43214	76627	76328	66831	54873	44956	41614
5	24811	21403	17951	61412	30176	46111	76627	76358	66037	54561	44766	41189
6	24674	21277	17815	61542	25352	48515	76597	76447	65277	54226	44533	40567
7	24430	21194	17729	61698	22457	51157	76657	76567	64576	53845	44428	40128
8	24097	21124	17754	62036	19276	54681	76867	76717	63908	53537	44322	39633
9	23811	21055	17790	72141	16542	57534	77017	76927	63323	53065	44238	39181
10	23483	20944	17840	79740	16127	58808	77017	76717	62980	52736	44091	38790
11	23394	20958	18001	82506	18289	59540	76807	76687	62350	52502	43923	38324
12	23246	21013	19618	82475	21124	60049	76687	76687	61672	52222	43630	37764
13	23099	21013	21572	82042	27925	61334	76507	76687	61128	52105	43422	37228
14	22967	20903	22126	92544	33429	63509	76328	76627	60715	51873	43173	36754
15	23305	20806	22515	94293	36791	65547	76388	76567	60484	51572	43090	36282
16	23409	20682	22718	104547	38421	67438	76507	76268	60254	51180	43028	35907
17	23439	20546	22850	108781	40387	69141	76627	75970	59998	50836	42987	35479
18	23424	20437	23040	104970	43194	70759	76867	75612	59617	50425	42945	34887
19	23394	20301	26246	96161	41270	72257	76807	75285	59186	50017	42925	34136
20	23290	20193	29056	86009	39240	73190	76927	74899	58682	49610	42904	33375
21	23202	20085	32551	85914	37957	73865	77197	74574	58181	49184	42780	32640
22	23084	19951	34464	86673	36583	74574	77317	74160	57608	48826	42636	31895
23	22908	19844	38130	101753	35090	75344	77377	73718	57040	48448	42492	31195
24	22791	19698	45574	128388	33033	76029	77167	73102	56646	48072	42369	30468
25	22660	19539	50425	128388	32231	76567	76867	72664	56181	47764	42246	29834
26	22530	19407	53750	126550	33375	76987	76567	72199	55743	47523	42082	29123
27	22298	19276	55986	131834	34446	77257	76298	71852	55476	47413	42001	28437
28	21969	19146	57683	126550	35590	77407	76029	71390	55476	47151	41960	27794
29	21756	19029	59009	117135	---	77558	75999	70816	55428	46977	41858	27143
30	21713	18913	60049	104899	---	77528	76089	70046	55452	46694	41777	26469
31	21699	---	60459	89906	---	77347	---	69451	---	46283	41756	---
TOTAL	723227	616173	956578	2804831	963591	1976885	2301399	2320007	1824818	1579368	1343721	1061811
MEAN	23329	20539	30857	90478	34413	63770	76713	74838	60827	50947	43345	35393
MAX	24811	22012	60459	131834	73014	77558	77377	76927	68860	55428	45810	41899
MIN	21699	18913	17729	60638	16127	36754	75999	69451	55428	46283	41756	26469
AC-FT	1435000	1222000	1897000	5563000	1911000	3921000	4565000	4602000	3620000	3133000	2665000	2106000
(†)	425.41	423.35	445.20	455.27	433.85	451.24	450.82	448.54	443.19	439.18	437.02	428.58
(‡)	-3220	-2786	+41546	+29447	-54316	+41757	-1258	-6638	-13999	-9169	-4527	-15287
(††)	792	439	266	333	314	1073	1358	1933	1790	2129	1817	1579

CAL YR 1969 MAX 137376 MIN 17729 ‡ +19290
WTR YR 1970 MAX 131834 MIN 16127 ‡ +1550

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.
†† EVAPORATION, IN ACRE-FEET.

11388000 STONY CREEK BELOW BLACK BUTTE DAM, NEAR ORLAND, CALIF.

LOCATION.--Lat 39°49'07", long 122°19'26", in SW¼ sec.28, T.23 N., R.4 W., Tehama County, on left bank 200 ft downstream from road bridge, 0.6 mile downstream from Black Butte Dam, and 8.1 miles northwest of Orland.

DRAINAGE AREA.--737 sq mi (revised).

PERIOD OF RECORD.--July 1955 to September 1970. Prior to October 1960, published as Stony Creek at Black Butte damsite, near Orland.

GAGE.--Water-stage recorder and grouted rock control. Datum of gage is 366.02 ft above mean sea level (levels by Corps of Engineers). Prior to Dec. 12, 1960, water-stage recorder at site 0.6 mile upstream at different datum. Dec. 12, 1960, to Nov. 30, 1963, nonrecording gage at bridge 200 ft upstream at datum 4.04 higher.

AVERAGE DISCHARGE.--15 years, 641 cfs (464,400 acre-ft per year), adjusted for diversion to South Diversion Canal since 1956 and for change in contents and evaporation from Black Butte Reservoir since 1964.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 6, 7, 1966	4,890	7.43	Many days	0
1967	Jan. 31, 1967	10,000	8.86	Several days	0
1968	Feb. 24, 1968	10,300	8.92	Nov. 21-26, 29, 1967	0
1969	Jan. 21, 1969	10,100	8.90	Nov. 25-28, Dec. 27, 28, 1968	0
1970	Jan. 24, 1970	13,000	9.47	Nov. 12, 13, 1969	0

Period of record: Maximum discharge, 36,300 cfs Feb. 24, 1958 (gage height, 11.82 ft, site and datum then in use), from rating curve extended above 7,500 cfs on basis of slope-area measurement of peak flow; no flow Dec. 8-10, 31, 1956, Jan. 1-10, 1957, Oct. 19 to Nov. 7, Nov. 13-15, 1962. Maximum discharge since regulation by Black Butte Reservoir in 1964, 19,400 cfs Dec. 25, 1964, corrected (gage height, 10.41 ft); no flow at times.

REMARKS.--Records excellent. Many diversions above station for irrigation. Flow regulated by Black Butte Lake (see station 11387995), East Park Reservoir (usable capacity, 50,600 acre-ft), and Stony Gorge Reservoir (usable capacity, 50,100 acre-ft). Prior to October 1956, figures of daily discharge included water diverted to South Diversion Canal, which diverts 0.6 mile above station. Records of combined monthly discharge include a small diversion that bypasses the station at times for irrigation. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	59	0	11	1,910	181	535	166	137	539	357	391
2	78	36	0	11	3,020	37	539	162	352	551	364	377
3	97	46	0	17	3,000	33	523	160	531	555	384	364
4	113	59	0	25	3,960	32	367	155	547	543	402	364
5	113	63	0	174	4,860	24	155	151	543	531	408	374
6	120	54	0	2,680	4,800	19	141	164	527	551	416	249
7	124	40	0	4,890	4,340	22	135	162	531	564	416	168
8	131	17	0	4,540	2,620	24	125	160	543	568	405	155
9	128	3.9	0	3,520	1,170	24	108	162	531	539	405	142
10	97	10	0	1,810	450	24	102	166	515	515	391	137
11	64	10	0	46	447	27	108	170	523	511	388	130
12	56	10	0	33	447	30	117	153	535	515	394	123
13	50	11	0	29	447	30	120	146	515	436	394	115
14	51	10	0	28	447	30	126	155	515	412	388	111
15	35	5.3	0	28	447	196	141	150	547	391	388	118
16	63	0	0	27	444	357	155	132	555	391	398	128
17	85	0	0	27	444	374	159	130	560	394	405	128
18	96	0	0	27	265	374	159	151	560	384	391	132
19	82	0	0	27	42	377	150	164	560	380	388	139
20	67	0	0	27	35	377	151	168	551	370	377	137
21	64	0	0	27	32	198	159	164	543	388	388	133
22	65	0	0	27	31	38	153	166	543	408	394	118
23	69	0	0	27	31	398	133	174	519	416	388	95
24	82	0	0	27	31	436	118	180	519	408	377	84
25	93	0	0	26	183	444	135	153	523	412	374	98
26	89	0	0	26	314	447	150	160	539	416	370	115
27	69	0	0	26	317	450	162	164	547	416	357	111
28	44	0	0	26	320	479	168	155	551	419	360	115
29	36	0	0	26	------	527	164	146	547	402	367	125
30	46	0	4.1	26	------	539	172	155	539	377	388	141
31	56	------	9.4	422	------	535	------	146	------	364	398	------
TOTAL	2,424	434.2	13.5	18,663	34,854	7,083	5,630	4,890	15,548	14,066	12,020	5,117
MEAN	78.2	14.5	.44	602	1,245	228	188	158	518	454	388	171
MAX	131	63	9.4	4,890	4,860	539	539	180	560	568	416	391
MIN	35	0	0	11	31	19	102	130	137	364	357	84
AC-FT	4,810	861	27	37,020	69,130	14,050	11,170	9,700	30,840	27,900	23,840	10,150
MEAN†	194	312	118	1,050	1,063	664	660	450	312	250	393	210
AC-FT†	11,910	18,590	7,260	64,580	59,010	40,800	39,270	27,640	18,570	15,380	24,190	12,500

CAL YR 1965 TOTAL 191,435.90 MEAN 524 MAX 15,200 MIN 0 AC-FT 379,700 MEAN† 708 AC-FT† 512,800
WTR YR 1966 TOTAL 120,742.70 MEAN 331 MAX 4,890 MIN 0 AC-FT 239,500 MEAN† 469 AC-FT† 339,700

† ADJUSTED FOR DIVERSION TO SOUTH DIVERSION CANAL AND CHANGE IN CONTENTS IN AND EVAPORATION FROM BLACK BUTTE LAKE.

11388000 STONY CREEK BELOW BLACK BUTTE DAM, NEAR ORLAND, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	146	108	40	29	9,260	202	499	1,660	615	635	621	595
2	135	108	41	29	7,110	99	499	521	592	627	610	604
3	141	105	36	29	4,690	49	171	512	548	622	609	614
4	132	85	37	29	3,040	46	53	509	527	628	625	615
5	105	79	40	29	2,970	44	52	504	529	635	627	622
6	98	63	39	29	2,340	43	51	503	531	629	618	644
7	94	47	36	29	1,380	43	51	503	542	632	611	645
8	87	55	32	29	734	41	51	539	550	632	617	604
9	60	60	31	28	491	36	51	583	572	630	627	580
10	68	55	31	28	400	37	53	591	601	630	634	577
11	91	53	31	28	302	36	278	593	626	630	635	580
12	109	53	31	28	302	15	507	605	635	620	631	591
13	118	56	32	28	309	0	501	603	628	619	634	586
14	111	56	30	28	398	0	499	584	618	624	604	578
15	111	52	31	28	495	0	451	586	622	625	599	570
16	115	52	31	28	495	0	499	603	616	625	612	561
17	117	50	31	28	446	0	499	621	617	614	615	566
18	122	50	31	28	405	0	513	629	620	616	625	588
19	123	54	31	28	405	6.0	523	620	620	628	629	592
20	108	53	30	30	312	262	523	616	614	638	628	602
21	87	53	31	922	216	494	516	603	620	640	621	601
22	80	53	31	3,580	213	497	503	591	622	610	624	600
23	77	55	30	6,140	209	499	503	595	627	607	634	592
24	67	53	30	6,810	202	499	511	608	634	624	622	579
25	69	53	30	7,190	202	499	1,070	628	632	630	601	579
26	76	33	30	7,230	202	499	2,140	635	610	620	592	589
27	78	.10	30	7,480	202	503	2,520	628	600	610	586	594
28	85	0	29	7,490	202	503	2,500	625	615	610	586	589
29	90	7.2	29	7,880	------	499	2,500	620	620	613	582	571
30	104	43	29	8,990	------	499	2,500	620	635	622	585	563
31	109	------	29	9,920	------	499	------	610	------	625	582	------
TOTAL	3,113	1,644.30	1,000	74,202	37,932	6,449.0	21,587	19,248	18,038	19,350	19,026	17,771
MEAN	100	54.8	32.3	2,394	1,355	208	720	621	601	624	614	592
MAX	146	108	41	9,920	9,260	503	2,520	1,660	635	640	635	645
MIN	60	0	29	28	202	0	51	503	527	607	582	561
AC-FT	6,170	3,260	1,980	147,200	75,240	12,790	42,820	38,180	35,780	38,380	37,740	35,250
MEAN†	57.1	175	816	2,368	1,209	809	1,179	991	687	414	341	277
AC-FT†	3,510	10,430	50,150	145,600	67,170	49,760	70,150	60,940	40,850	25,480	20,950	16,460

CAL YR 1966 TOTAL 123,628.30 MEAN 339 MAX 4,890 MIN 0 AC-FT 245,200 MEAN† 506 AC-FT† 366,000
WTR YR 1967 TOTAL 239,360.30 MEAN 656 MAX 9,920 MIN 0 AC-FT 474,800 MEAN† 775 AC-FT† 561,400

† ADJUSTED FOR DIVERSION TO SOUTH DIVERSION CANAL AND CHANGE IN CONTENTS IN AND EVAPORATION FROM BLACK BUTTE LAKE.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	578	89	43	38	41	495	72	498	154	166	348	164
2	565	96	43	37	46	483	62	495	155	173	341	155
3	476	97	42	37	46	483	52	500	162	166	351	154
4	380	91	39	37	46	485	62	506	162	167	358	152
5	278	84	36	37	46	255	72	509	154	178	346	142
6	187	83	35	37	46	36	77	514	145	174	345	122
7	142	95	35	37	46	30	81	515	142	166	350	101
8	137	94	37	37	46	28	101	512	135	162	358	108
9	128	82	37	35	46	27	169	488	140	163	358	131
10	112	72	37	37	46	27	328	487	145	162	375	138
11	95	65	36	38	47	26	540	497	146	178	375	144
12	97	52	36	39	47	12	518	489	140	193	347	148
13	101	51	37	40	49	.70	500	489	143	175	331	145
14	105	53	37	42	49	.30	497	490	144	164	334	145
15	114	53	37	43	90	8.0	495	480	155	178	163	147
16	113	49	37	45	298	28	492	485	159	163	138	144
17	114	45	37	45	494	28	490	499	173	151	139	141
18	118	46	37	45	507	11	479	508	182	152	146	138
19	122	40	37	45	1,840	8.9	474	504	181	328	123	109
20	117	.30	37	45	5,270	28	479	402	173	369	102	86
21	110	0	37	45	9,390	28	494	216	176	370	65	77
22	105	0	37	45	9,870	28	510	126	176	371	39	86
23	95	0	37	47	9,840	28	518	119	163	368	39	113
24	86	0	37	46	9,610	28	522	133	172	375	39	130
25	89	0	37	44	7,310	28	528	142	170	375	40	135
26	89	0	37	44	3,150	41	526	143	162	368	90	138
27	88	29	37	44	2,030	50	514	154	160	375	110	139
28	80	36	37	44	1,920	50	494	168	160	372	124	131
29	77	0	38	42	1,240	53	490	167	159	360	142	129
30	74	1.8	38	41	------	53	499	161	156	346	146	132
31	79	------	37	41	------	53	------	156	------	345	161	------
TOTAL	5,051	1,404.10	1,161	1,279	63,506	2,939.90	11,135	11,552	4,744	7,753	6,723	3,924
MEAN	163	46.8	37.5	41.3	2,190	94.8	371	373	158	250	217	131
MAX	578	97	43	47	9,870	495	540	515	182	375	375	164
MIN	74	0	35	35	41	.30	52	119	135	151	39	77
AC-FT	10,020	2,790	2,300	2,540	126,000	5,830	22,090	22,910	9,410	15,380	13,340	7,780
MEAN†	184	80.8	84.2	597	2,091	678	406	329	210	363	219	274
AC-FT†	11,300	4,810	5,180	36,690	120,300	41,690	24,150	20,240	12,480	22,310	13,480	16,290

CAL YR 1967 TOTAL 241,219.10 MEAN 661 MAX 9,920 MIN 0 AC-FT 478,500 MEAN† 716 AC-FT† 518,600
WTR YR 1968 TOTAL 121,172.00 MEAN 331 MAX 9,870 MIN 0 AC-FT 240,300 MEAN† 453 AC-FT† 328,900

† ADJUSTED FOR DIVERSION TO SOUTH DIVERSION CANAL AND CHANGE IN CONTENTS IN AND EVAPORATION FROM BLACK BUTTE LAKE.

11388000 STONY CREEK BELOW BLACK BUTTE DAM, NEAR ORLAND, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	129	43	29	48	2,760	4,480	99	568	579	578	576	586
2	117	42	30	48	2,460	4,460	32	567	599	580	576	461
3	101	41	30	48	2,020	4,410	33	577	612	599	574	344
4	84	41	30	48	1,220	3,830	50	579	608	594	573	325
5	73	39	27	48	1,000	2,140	81	586	480	589	588	320
6	76	39	27	49	1,560	1,330	97	601	600	591	608	323
7	109	39	27	47	2,260	1,200	98	605	597	600	608	331
8	116	40	27	46	2,480	1,190	100	601	594	608	605	291
9	106	44	27	46	2,500	1,180	101	611	590	613	608	229
10	120	42	27	47	2,500	1,170	99	605	583	608	601	181
11	119	41	27	48	2,820	1,180	95	600	578	591	577	164
12	116	41	28	48	3,480	1,060	95	597	587	571	571	159
13	101	41	28	2,240	4,020	990	123	609	581	560	576	155
14	80	41	28	5,070	4,210	1,010	522	514	568	573	589	143
15	76	41	30	5,050	4,540	1,010	547	622	570	585	601	134
16	57	41	29	4,990	4,540	1,010	550	618	582	589	605	117
17	38	41	30	4,670	4,540	1,020	569	605	589	588	615	109
18	48	41	30	3,990	4,540	744	587	599	597	586	616	111
19	50	41	29	3,800	4,510	495	591	597	597	580	609	107
20	47	41	29	5,960	4,440	503	591	595	595	582	615	105
21	42	41	29	8,930	4,420	364	589	581	592	586	606	104
22	57	41	29	10,000	4,410	196	608	583	588	590	597	113
23	63	41	30	9,910	4,430	194	610	589	589	588	602	128
24	57	14	31	9,520	4,470	142	601	596	589	588	583	140
25	67	0	31	7,810	4,500	105	566	597	586	599	573	142
26	71	0	18	7,860	4,450	104	547	592	578	599	573	131
27	80	0	0	7,950	4,430	98	566	588	573	615	576	125
28	86	0	0	3,490	4,480	98	580	589	578	615	592	133
29	30	9.0	16	7,280	------	100	585	604	574	606	600	136
30	16	27	47	6,120	------	101	580	610	575	592	600	127
31	44	------	48	3,700	------	103	------	579	------	585	589	------
TOTAL	2,376	993.0	848	118,911	97,990	36,017	10,892	18,364	17,508	18,328	18,382	5,974
MEAN	76.6	33.1	27.4	3,836	3,500	1,162	363	592	584	591	593	199
MAX	129	44	48	10,000	4,540	4,480	610	622	612	615	616	586
MIN	16	0	0	46	1,000	98	32	514	480	560	571	104
AC-FT	4,710	1,970	1,680	235,900	194,400	71,440	21,600	36,420	34,730	36,350	36,460	11,850
MEAN†	52.8	31.4	406	3,578	3,725	1,916	1,357	757	356	336	340	279
AC-FT†	3,250	1,870	24,980	220,000	206,900	117,800	80,720	46,530	21,180	20,640	20,940	16,630

CAL YR 1968 TOTAL 117,772.90 MEAN 322 MAX 9,870 MIN 0 AC-FT 233,600 MEAN† 465 AC-FT† 337,700
WTR YR 1969 TOTAL 346,583.00 MEAN 950 MAX 10,000 MIN 0 AC-FT 687,400 MEAN† 1,079 AC-FT† 781,400

† ADJUSTED FOR DIVERSION TO SOUTH DIVERSION CANAL AND CHANGE IN CONTENTS IN AND EVAPORATION FROM BLACK BUTTE LAKE.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	50	50	70	9,830	21	174	278	191	204	212	122
2	116	40	52	70	9,000	2.3	176	263	208	217	207	109
3	116	73	57	69	7,060	0	184	270	244	232	193	128
4	111	92	66	70	5,510	26	174	282	231	233	177	166
5	109	81	60	60	4,530	48	153	306	240	242	168	215
6	107	59	51	55	3,430	49	151	304	238	250	156	246
7	98	54	51	55	2,470	49	138	300	230	253	141	283
8	110	51	51	55	2,460	50	130	293	232	221	138	297
9	110	51	51	396	2,250	262	129	234	246	211	145	233
10	102	49	54	1,070	1,320	1,040	130	174	238	222	149	225
11	112	15	54	1,050	229	1,000	142	130	240	232	162	211
12	132	0	55	1,860	60	1,000	162	124	266	235	172	210
13	129	0	56	3,140	246	595	176	136	280	234	168	215
14	113	53	56	4,430	514	69	178	130	270	232	153	224
15	78	52	56	5,840	528	56	169	126	237	245	123	235
16	52	53	56	7,460	1,330	53	150	141	203	244	109	214
17	49	53	56	8,100	2,100	52	134	150	213	240	113	208
18	49	52	56	8,700	981	51	139	158	232	236	120	219
19	49	52	57	9,850	2,830	51	144	175	224	225	134	229
20	46	52	57	9,930	2,670	51	174	188	228	231	147	220
21	46	52	61	9,970	2,150	51	215	191	249	235	147	198
22	65	52	61	9,760	2,020	52	265	178	260	218	144	217
23	74	52	63	9,700	1,990	52	280	154	261	191	149	211
24	68	51	64	12,700	1,980	74	302	142	265	194	156	200
25	58	53	66	11,900	1,020	84	316	143	269	191	155	200
26	58	53	67	8,700	74	98	350	152	254	183	148	203
27	70	51	68	10,000	55	118	321	156	232	169	134	215
28	76	51	69	10,000	51	130	309	157	216	169	120	218
29	74	51	69	9,900	------	139	300	162	220	188	117	292
30	68	51	69	9,730	------	148	295	180	215	196	123	205
31	66	------	69	9,870	------	164	------	185	------	204	130	------
TOTAL	2,631	1,499	1,828	174,560	68,688	5,635.3	6,060	5,962	7,132	6,777	4,610	6,368
MEAN	84.9	50.0	59.0	5,631	2,453	182	202	192	238	219	149	212
MAX	132	92	69	12,700	9,830	1,040	350	306	280	253	212	297
MIN	46	0	50	55	51	0	129	124	191	169	109	109
AC-FT	5,220	2,970	3,630	346,200	136,200	11,180	12,020	11,830	14,150	13,440	9,140	12,630
MEAN†	119	27.4	747	6,117	1,483	910	399	328	258	340	326	166
AC-FT†	7,300	1,630	45,910	376,100	82,370	55,940	23,720	20,160	15,370	20,890	20,050	9,890

CAL YR 1969 TOTAL 348,324.0 MEAN 954 MAX 10,000 MIN 0 AC-FT 690,900 MEAN† 1,113 AC-FT† 806,200
WTR YR 1970 TOTAL 291,750.3 MEAN 799 MAX 12,700 MIN 0 AC-FT 578,700 MEAN† 938 AC-FT† 679,300

† ADJUSTED FOR DIVERSION TO SOUTH DIVERSION CANAL AND CHANGE IN CONTENTS IN AND EVAPORATION FROM BLACK BUTTE LAKE.

11388500 STONY CREEK NEAR HAMILTON CITY, CALIF.

LOCATION.--Lat 39°43'25", long 122°02'47", in Capay Grant, Glenn County, on right bank 2.3 miles southwest of Hamilton City, 6 miles upstream from mouth, and 8 miles east of Orland.

DRAINAGE AREA.--772 sq mi (revised).

PERIOD OF RECORD.--October 1940 to September 1970. Records for water year 1941 incomplete, yearly estimate published in WSP 1315-A.

GAGE.--Water-stage recorder. Datum of gage is 151.18 ft above mean sea level (levels by Bureau of Reclamation). Prior to February 1946, at site 3 miles upstream at different datum.

AVERAGE DISCHARGE.--30 years, 442 cfs (320,200 acre-ft per year), unadjusted.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Feb. 5, 1966	5,050	9.81	Many days	0
1967	Jan. 30, 1967	10,800	12.24	Nov. 1, 1966	1.0
1968	Feb. 22, 1968	9,170	12.08	Many days	0
1969	Jan. 22, 1969	10,100	12.14	do.	0
1970	Jan. 25, 1970	12,500	12.83	Nov. 14, 30, 1969	0

Period of record: Maximum discharge, 39,900 cfs Feb. 25, 1958 (gage height, 18.31 ft); no flow at times in most years.

REMARKS.--Records fair. Flow regulated by East Park Reservoir since 1910 (usable capacity, 50,600 acre-ft), by Stony Gorge Reservoir since 1928 (usable capacity, 50,100 acre-ft), and by Black Butte Reservoir, 18.6 miles upstream, since October 1963 (see station 11387995). Diversions for irrigation of about 20,000 acres (maximum potential) above station in the Bureau of Reclamation Orland project.

COOPERATION.--Discharge measurements and gage readings furnished by Bureau of Reclamation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	0		0	1,160	286	434	27	35	368	272	272
2	13	0		0	2,680	85	434	46	37	379	254	258
3	12	0		0	2,860	44	451	20	268	390	244	262
4	17	0		0	3,820	32	451	16	330	390	258	254
5	6.6	0		0	5,000	29	200	33	357	396	249	258
6	15	0		931	4,940	20	117	25	368	396	236	249
7	12	0		4,220	4,660	11	96	18	368	418	244	108
8	3.5	0		4,520	2,850	8.6	77	25	384	418	249	64
9	7.6	0		3,700	1,650	7.6	77	27	396	406	258	35
10	8.1	0		2,530	644	7.6	85	30	368	390	267	32
11	20	0		362	553	6.6	72	32	357	401	276	25
12	24	0		171	541	5.7	46	33	340	390	285	33
13	10	0		117	523	5.7	42	26	379	320	267	35
14	2.3	27		85	505	4.9	36	8.1	335	280	272	32
15	9.8	27		69	499	8.8	32	11	352	262	290	25
16	17	15		51	493	235	25	15	346	262	290	16
17	9.8	12		30	493	315	36	21	362	240	325	21
18	4.1	38		21	451	335	44	12	352	254	300	30
19	1.7	15		19	132	340	44	6.1	346	258	285	33
20	5.7	5.3		14	46	352	40	4.9	384	254	267	13
21	35	2.0		9.8	27	322	32	10	374	249	244	13
22	19	1.1		8.6	20	107	36	12	362	236	272	16
23	2.0	.50		6.6	15	177	27	20	396	258	262	26
24	0	.50		4.5	13	379	36	6.6	379	258	272	30
25	0	0		1.5	19	396	42	3.2	346	249	249	30
26	0	0		1.3	236	401	29	8.6	362	236	244	25
27	0	0		0	290	412	19	13	362	249	240	25
28	0	0		0	305	418	10	26	368	258	236	30
29	0	0		.6	------	412	12	38	374	267	262	18
30	0	0		21	------	418	7.6	40	362	249	280	13
31	0	------		64	------	428	------	46	------	272	285	------
TOTAL	274.2	143.40	0	16,957.9	35,425	6,009.5	3,089.6	659.5	10,149	9,653	8,234	2,281
MEAN	8.85	4.78	0	547	1,265	194	103	21.3	338	311	266	76.0
MAX	35	38	0	4,520	5,000	428	451	46	396	418	325	272
MIN	0	0	0	0	13	4.9	7.6	3.2	35	236	236	13
AC-FT	544	284	0	33,640	70,270	11,920	6,130	1,310	20,130	19,150	16,330	4,520

CAL YR 1965 TOTAL 186,592.50 MEAN 511 MAX 14,500 MIN 0 AC-FT 370,100
WTR YR 1966 TOTAL 92,876.10 MEAN 254 MAX 5,000 MIN 0 AC-FT 184,200

11388500 STONY CREEK NEAR HAMILTON CITY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	1.0	22	14	9,850	161	410	2,400	535	428	480	520
2	11	7.6	47	12	7,940	152	410	600	595	432	480	515
3	22	12	143	12	5,740	90	333	550	565	432	505	525
4	24	19	57	11	3,030	71	116	510	545	428	515	535
5	21	16	150	11	2,900	59	90	510	520	432	510	545
6	18	25	79	11	2,550	54	88	500	510	441	510	525
7	18	25	60	8.9	1,390	52	82	495	500	446	510	525
8	25	22	49	11	838	52	73	505	500	450	515	565
9	27	22	44	11	495	51	68	535	500	446	525	525
10	24	19	41	7.9	423	49	70	515	510	446	525	520
11	16	19	38	8.9	318	51	73	525	490	436	520	515
12	18	18	36	8.4	300	52	334	535	500	455	505	505
13	18	18	36	7.4	290	49	389	540	525	460	495	515
14	19	19	36	4.1	290	52	389	530	520	460	520	510
15	26	20	32	3.4	381	38	349	505	510	455	505	505
16	22	25	30	8.4	393	41	405	485	520	465	505	520
17	22	19	28	5.2	381	38	432	490	515	455	515	515
18	18	18	25	5.6	329	35	441	505	505	441	500	525
19	18	26	26	5.6	322	32	470	515	510	441	500	520
20	22	94	25	12	304	30	475	510	515	446	495	495
21	27	53	24	73	219	283	500	500	465	446	490	505
22	24	44	22	2,440	204	357	490	515	432	450	495	515
23	22	42	22	6,170	195	377	500	495	389	455	490	515
24	19	38	21	7,020	192	381	515	495	397	455	490	515
25	18	33	19	7,570	186	389	692	490	410	450	510	515
26	17	32	18	7,690	167	393	2,100	500	414	455	530	505
27	16	22	18	8,050	164	397	2,500	495	432	450	535	525
28	19	16	17	8,120	164	405	2,500	485	428	460	530	510
29	18	17	16	8,140	------	423	2,450	495	418	460	525	500
30	8.2	11	15	9,570	------	441	2,450	495	428	475	520	490
31	7.2	------	14	10,500	------	418	------	505	------	495	515	------
TOTAL	597.4	752.6	1,210	75,521.8	39,955	5,473	20,194	17,730	14,603	13,946	15,765	15,520
MEAN	19.3	25.1	39.0	2,436	1,427	177	673	572	487	450	509	517
MAX	27	94	150	10,500	9,850	441	2,500	2,400	595	495	535	565
MIN	7.2	1.0	14	3.4	164	30	68	485	389	428	480	490
AC-FT	1,180	1,490	2,400	149,800	79,250	10,860	40,050	35,170	28,970	27,660	31,270	30,780

CAL YR 1966 TOTAL 95,018.50 MEAN 260 MAX 5,000 MIN 0 AC-FT 188,500
WTR YR 1967 TOTAL 221,267.80 MEAN 606 MAX 10,500 MIN 1.0 AC-FT 438,900

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	495	23	0	0	44	628	20	395	26	17	210	0
2	495	21	0	0	63	573	28	395	23	15	200	0
3	436	20	0	0	58	562	34	390	32	11	200	0
4	365	20	0	0	45	540	35	390	14	9.8	210	0
5	290	20	0	0	41	473	39	385	15	17	203	0
6	201	24	0	0	37	158	28	385	21	11	189	0
7	141	14	0	0	35	104	12	385	31	12	189	7.1
8	112	14	0	0	34	91	5.5	380	23	17	203	9.8
9	90	26	0	0	31	72	5.8	380	26	9.8	203	9.0
10	73	35	0	0	30	61	21	385	21	9.0	193	7.5
11	63	29	0	0	30	55	308	380	21	4.3	210	12
12	54	26	2.8	0	29	55	354	380	12	4.9	206	9.8
13	49	20	3.8	0	30	51	327	380	11	11	200	12
14	48	21	1.3	10	27	41	340	380	13	12	200	6.1
15	48	28	3.3	24	24	32	372	390	9.8	14	161	3.3
16	40	26	3.8	24	111	30	372	367	4.9	11	78	5.5
17	36	19	3.8	22	466	31	385	376	2.8	21	51	4.3
18	29	19	7.5	21	512	30	385	390	4.9	17	39	3.8
19	27	21	6.8	21	1,070	26	390	395	7.5	39	50	6.8
20	35	18	6.1	20	3,650	17	372	380	16	164	50	16
21	38	9.8	5.5	20	8,120	16	376	242	17	158	72	30
22	48	5.5	5.5	19	9,020	19	380	133	6.1	167	58	26
23	48	2.8	3.3	19	8,990	19	380	87	5.5	174	32	14
24	51	.80	.17	19	9,020	17	395	78	6.8	177	24	2.8
25	49	0	0	18	6,760	16	395	59	4.3	183	21	.70
26	41	0	0	18	3,280	12	390	51	2.8	196	19	.40
27	32	0	0	18	1,750	14	395	45	2.8	193	12	.14
28	36	0	0	17	1,680	20	400	29	2.8	189	11	1.0
29	36	0	0	42	1,270	19	385	30	5.5	196	4.3	1.0
30	32	0	0	124	------	18	372	16	9.8	210	2.0	4.3
31	28	------	0	58	------	15	------	16	------	206	.38	------
TOTAL	3,566	462.90	53.67	514	56,257	3,815	7,701.3	8,474	398.3	2,475.8	3,500.68	193.34
MEAN	115	15.4	1.73	16.6	1,940	123	257	273	13.3	79.9	113	6.44
MAX	495	35	7.5	124	9,020	628	400	395	32	210	210	30
MIN	27	0	0	0	24	12	5.5	16	2.8	4.3	.38	0
AC-FT	7,070	918	106	1,020	111,600	7,570	15,280	16,810	790	4,910	6,940	383

CAL YR 1967 TOTAL 222,790.37 MEAN 610 MAX 10,500 MIN 0 AC-FT 441,900
WTR YR 1968 TOTAL 87,411.99 MEAN 239 MAX 9,020 MIN 0 AC-FT 173,400

11388500 STONY CREEK NEAR HAMILTON CITY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	0	0	24	2,360	4,550	123	480	473	438	487	438
2	.89	0	0	27	2,230	4,520	119	480	473	436	459	398
3	.17	0	0	28	2,090	4,460	111	473	473	436	466	284
4	1.1	1.1	0	27	1,570	3,890	111	466	501	455	417	246
5	1.5	4.0	0	27	1,360	1,970	113	459	316	470	374	230
6	3.8	4.8	0	27	1,730	1,210	119	452	417	470	386	228
7	7.2	3.6	0	26	2,240	1,060	119	452	473	464	400	225
8	3.2	2.6	0	27	2,460	1,030	119	459	459	459	410	218
9	.52	1.3	0	23	2,480	1,010	119	480	501	487	415	160
10	.02	1.2	0	23	2,520	977	119	473	536	487	435	112
11	0	1.1	0	24	3,220	977	119	487	543	459	480	81
12	0	.82	0	57	3,850	928	119	473	529	487	510	55
13	9.8	.70	0	1,170	4,280	816	119	452	571	508	480	62
14	21	1.5	0	4,860	4,960	823	234	454	487	473	466	67
15	18	9.2	0	4,700	5,130	816	438	424	466	466	459	46
16	18	6.8	0	4,700	4,950	809	445	522	431	459	445	49
17	15	4.0	0	4,780	4,910	837	445	473	404	445	410	49
18	9.6	6.5	0	3,990	4,840	753	445	459	404	473	417	36
19	8.8	6.5	0	4,020	4,750	571	452	438	438	480	473	43
20	9.6	4.3	0	4,910	4,670	571	452	431	438	473	431	46
21	6.8	3.0	0	8,430	4,540	564	445	452	438	487	438	49
22	3.4	2.6	0	9,930	4,520	296	478	431	452	487	452	40
23	3.8	2.6	0	9,460	4,490	178	501	445	452	494	473	23
24	4.0	2.4	15	9,230	4,460	150	508	452	431	445	473	22
25	1.7	1.1	47	7,350	4,250	136	508	466	424	459	480	29
26	.64	.52	37	7,260	4,280	130	494	466	445	466	505	30
27	.40	.40	23	7,350	4,680	126	487	494	410	473	518	29
28	.10	.30	15	4,030	4,800	126	480	473	398	494	520	28
29	0	.15	10	5,700	------	123	473	508	431	487	465	29
30	0	0	7.6	6,260	------	123	473	487	438	487	445	26
31	0	------	17	3,130	------	123	------	515	------	508	438	------
TOTAL	152.24	73.09	171.6	111,600	102,620	34,653	9,287	14,476	13,652	14,612	14,027	3,378
MEAN	4.91	2.44	5.54	3,600	3,665	1,118	310	467	455	471	452	113
MAX	21	9.2	47	9,930	5,130	4,550	508	522	571	508	520	438
MIN	0	0	0	23	1,360	123	111	424	316	436	374	22
AC-FT	302	145	340	221,400	203,500	68,730	18,420	28,710	27,080	28,980	27,820	6,700

CAL YR 1968 TOTAL 83,726.35 MEAN 229 MAX 9,020 MIN 0 AC-FT 166,100
WTR YR 1969 TOTAL 318,701.93 MEAN 873 MAX 9,930 MIN 0 AC-FT 632,100

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	26	1.4	49	10,700	170	37	208	50	105	51	21
2	42	21	5.3	48	10,200	111	43	194	40	109	54	11
3	41	16	8.2	45	8,330	76	46	186	57	104	55	5.8
4	51	16	12	44	6,270	69	60	182	98	96	43	6.4
5	46	35	11	44	5,070	111	74	190	96	87	31	7.0
6	50	38	15	40	3,960	102	74	204	96	96	24	48
7	32	35	12	35	2,960	97	60	190	96	70	12	127
8	27	31	16	37	2,800	178	71	178	110	86	7.9	162
9	22	24	16	227	2,620	150	55	170	121	80	8.2	137
10	26	22	17	1,430	2,280	1,020	49	123	145	90	8.2	127
11	27	19	17	1,190	1,270	1,120	47	80	102	95	3.8	119
12	26	15	25	1,440	788	1,110	37	52	109	100	3.2	109
13	28	2.2	35	2,410	781	1,010	39	47	104	105	8.3	110
14	34	0	28	4,030	1,210	320	47	53	129	94	43	115
15	56	3.8	24	5,070	1,160	158	69	43	135	75	55	93
16	56	3.5	23	7,110	1,300	116	89	34	121	90	55	107
17	42	8.2	21	7,810	2,250	97	64	42	113	90	62	92
18	34	11	21	7,760	1,250	85	58	36	90	94	41	93
19	30	11	52	9,300	2,280	78	50	27	98	94	32	99
20	27	11	70	9,490	2,520	74	65	27	98	90	15	119
21	26	11	62	9,460	2,170	64	113	27	102	78	24	119
22	24	11	55	9,380	2,030	62	150	28	101	90	8.2	110
23	25	9.7	62	8,490	1,980	58	154	40	90	80	14	109
24	28	11	81	12,400	1,960	52	166	49	81	76	10	93
25	29	11	69	12,300	1,690	76	182	39	87	55	16	84
26	27	12	62	9,690	529	64	194	29	88	57	21	76
27	26	11	61	10,200	274	50	204	28	113	72	41	75
28	31	8.2	57	10,400	204	57	186	34	123	75	44	87
29	31	6.6	56	10,300	------	49	170	36	121	50	36	81
30	27	0	52	10,400	------	57	186	29	117	43	59	70
31	25	------	51	10,900	------	44	------	36	------	48	31	------
TOTAL	1,032	440.2	1,097.9	171,529	80,836	6,885	2,839	2,641	3,031	2,574	916.8	2,612.2
MEAN	33.3	14.7	35.4	5,533	2,887	222	94.6	85.2	101	83.0	29.6	87.1
MAX	56	38	81	12,400	10,700	1,120	204	208	145	109	62	162
MIN	22	0	1.4	35	204	44	37	27	40	43	3.2	5.8
AC-FT	2,050	873	2,180	340,200	160,300	13,660	5,630	5,240	6,010	5,110	1,820	5,180

CAL YR 1969 TOTAL 320,875.1 MEAN 879 MAX 9,930 MIN 0 AC-FT 636,500
WTR YR 1970 TOTAL 276,434.1 MEAN 757 MAX 12,400 MIN 0 AC-FT 548,300

11389000 SACRAMENTO RIVER AT BUTTE CITY, CALIF.

LOCATION.--Lat 39°27'28", long 121°59'35", in SE¼NE¼ sec.32, T.19 N., R.1 W., Glenn County, on left bank 100 ft upstream from highway bridge, 0.5 mile south of Butte City, and at mile 115.8 upstream from Sacramento.

DRAINAGE AREA.--12,081 sq mi (revised).

PERIOD OF RECORD.--April 1921 to September 1938 (low-water periods only), October 1938 to September 1970. Monthly discharge only for some periods, published in WSP 1315-A.

GAGE.--Water-stage recorder. Datum of gage is 2.92 ft below mean sea level. Prior to December 1930, at site 0.5 mile upstream at present datum.

AVERAGE DISCHARGE.--32 years (1938-70), 12,890 cfs (9,339,000 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 6, 1966	72,700	89.33	Sept.11, 12, 1966	6,760
1967	Feb. 1, 1967	98,400	92.40	Jan. 17-19, 1967	6,160
1968	Feb. 26, 1968	69,500	89.38	May 31, 1968	6,390
1969	Jan. 14, 1969	120,000	93.30	Oct. 7, 1968	7,120
1970	Jan. 25, 1970	152,000	95.92	Nov. 13, 1969	6,230

Period of record: Maximum discharge (1940-70), 170,000 cfs Feb. 7, 1942 (gage height, 96.87 ft); minimum recorded (1921-70), 1,050 cfs July 15, 25, 26, 1931 (gage height, 67.49 ft).

REMARKS.--Records good. Natural flow of stream affected by storage reservoirs, power developments, unmeasured over-bank flow during extreme floods, diversions for irrigation, and return flow from irrigated areas. Water-quality records for the water years 1966-67 and 1969-70 are published in reports of the Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8,240	8,460	9,340	17,600	17,900	11,700	10,800	8,240	7,800	10,100	10,500	8,680
2	8,240	8,240	8,900	15,100	23,100	11,000	10,500	8,240	7,800	10,100	10,500	7,800
3	8,240	8,020	12,000	14,300	20,700	10,300	10,300	8,240	7,800	10,300	10,500	7,580
4	8,240	8,020	13,300	14,600	28,200	9,580	10,100	8,240	8,240	10,500	10,500	7,360
5	8,240	8,240	13,500	42,000	41,500	8,900	9,340	8,460	8,680	10,800	10,300	7,360
6	8,240	8,020	13,800	68,600	31,700	9,340	8,680	8,680	8,900	10,800	10,300	7,360
7	8,240	8,240	14,100	49,600	32,400	9,580	8,240	8,680	8,900	10,800	10,300	7,360
8	8,240	8,240	14,100	35,900	24,000	9,580	7,800	8,460	8,900	10,800	10,300	7,160
9	8,240	8,460	14,100	31,400	19,300	10,100	7,360	8,460	8,900	10,800	10,300	7,160
10	8,240	8,460	14,300	28,900	16,700	10,800	7,360	8,660	8,900	10,800	10,300	7,160
11	8,240	8,460	14,300	25,200	15,400	14,100	9,580	9,340	8,680	11,000	10,300	6,760
12	8,240	8,680	14,300	23,100	14,100	13,000	9,580	9,820	8,680	11,300	10,300	6,760
13	8,240	9,340	14,600	22,200	13,000	11,700	9,580	9,820	8,680	11,500	10,300	6,960
14	8,240	11,300	14,300	21,300	12,500	11,500	8,460	9,580	8,680	11,500	10,300	6,960
15	8,240	17,000	14,100	21,000	12,000	11,700	7,580	9,580	8,460	11,700	10,500	6,960
16	8,460	23,800	14,100	20,700	11,500	12,000	8,020	9,340	8,460	11,700	10,500	6,960
17	8,460	14,600	13,800	20,700	10,800	12,800	8,680	9,340	9,340	11,700	10,500	6,960
18	8,460	20,400	13,800	20,400	10,500	12,800	9,820	9,120	9,340	11,700	10,500	6,960
19	8,460	21,900	13,800	20,100	10,300	13,500	10,300	9,120	9,820	12,000	9,820	6,960
20	8,460	16,200	13,800	19,800	11,700	14,300	10,500	8,240	10,300	12,000	9,820	7,160
21	8,460	15,100	13,800	19,500	12,000	14,100	10,100	8,240	10,300	12,000	10,300	6,960
22	8,460	14,300	13,000	19,500	10,300	14,300	9,820	8,240	10,100	12,000	10,300	6,960
23	8,460	13,500	12,500	19,500	10,100	13,500	9,580	8,020	10,100	12,200	10,300	6,960
24	8,240	13,800	12,500	19,300	10,500	12,800	9,580	7,800	10,300	11,500	9,820	6,960
25	8,240	15,900	13,300	19,300	13,800	13,000	9,580	8,020	10,100	11,300	9,580	6,960
26	8,240	15,900	13,800	19,000	14,100	11,700	9,340	8,020	10,100	11,300	9,820	6,960
27	8,240	16,200	13,500	17,900	15,600	11,000	9,120	7,800	10,300	11,300	9,820	6,960
28	8,240	16,500	13,300	16,500	12,800	11,500	8,900	7,800	10,300	11,300	9,820	6,960
29	8,240	15,100	18,700	15,400	------	11,300	8,460	7,800	10,300	11,300	9,820	6,960
30	8,240	11,300	19,000	18,700	------	10,800	8,460	7,800	10,100	11,500	9,820	6,960
31	8,240	------	17,300	20,400	------	10,500	------	7,800	------	10,500	9,340	------
TOTAL	257,200	381,680	429,040	737,500	476,500	362,780	275,520	265,000	277,260	348,100	315,380	213,980
MEAN	8,297	12,720	13,840	23,790	17,020	11,700	9,184	8,548	9,242	11,230	10,170	7,133
MAX	8,460	23,800	19,000	68,600	41,500	14,300	10,800	9,820	10,300	12,200	10,500	8,680
MIN	8,240	8,020	8,900	14,300	10,100	8,900	7,360	7,800	7,800	10,100	9,340	6,760
AC-FT	510,200	757,100	851,000	1,463M	945,100	719,600	546,500	525,600	549,900	690,500	625,600	424,400

CAL YR 1965 TOTAL 5,213,400 MEAN 14,280 MAX 120,000 MIN 5,560 AC-FT 10,340,000
WTR YR 1966 TOTAL 4,339,940 MEAN 11,890 MAX 68,600 MIN 6,760 AC-FT 8,608,000

M EXPRESSED IN THOUSANDS.

11389000 SACRAMENTO RIVER AT BUTTE CITY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,880	7,400	20,100	11,300	97,000	12,300	14,800	24,700	17,800	12,400	10,700	10,400
2	6,800	7,540	24,500	11,200	80,500	11,900	16,900	22,900	17,500	12,400	10,600	10,500
3	6,860	7,470	47,500	10,900	65,700	11,500	13,600	21,000	18,800	12,400	10,500	10,600
4	6,960	7,600	47,800	10,800	59,200	11,200	12,600	20,400	17,900	12,400	10,600	10,700
5	6,900	7,650	41,200	9,740	55,700	10,700	11,900	19,900	17,300	12,000	10,500	10,800
6	6,980	7,650	54,100	8,770	53,800	10,600	12,900	18,900	17,200	12,000	10,600	10,700
7	7,040	8,460	51,000	7,890	51,200	10,500	19,800	18,300	17,100	11,800	10,600	10,800
8	7,000	8,390	51,400	7,650	44,500	9,870	21,600	18,200	16,700	11,500	10,700	10,700
9	7,000	8,150	53,500	7,540	34,700	9,740	20,300	18,400	16,000	11,300	10,600	10,600
10	7,020	8,200	54,400	7,400	27,500	9,250	19,400	18,900	16,100	11,300	10,500	10,500
11	7,040	8,060	51,800	6,960	24,600	9,930	19,900	20,900	15,700	11,200	10,600	10,700
12	7,060	8,130	31,600	6,920	23,100	13,800	21,200	19,900	15,700	11,100	10,600	10,800
13	7,080	8,440	24,400	6,420	22,500	14,200	19,100	19,700	15,400	11,000	10,600	10,700
14	7,160	8,570	24,500	6,360	22,100	13,300	20,500	20,100	15,300	10,900	10,600	10,700
15	7,180	9,080	24,300	6,360	21,000	13,100	21,500	19,700	14,900	10,900	10,600	10,600
16	7,160	10,300	21,900	6,360	20,200	15,400	21,000	20,000	14,700	10,800	10,400	10,600
17	7,200	12,500	20,700	6,160	19,200	26,000	20,500	20,700	14,500	11,000	10,400	10,700
18	7,200	10,200	19,900	6,160	18,400	20,700	23,700	21,300	14,300	10,900	10,400	10,800
19	7,140	9,560	19,400	6,160	17,500	18,000	28,400	21,500	14,200	10,700	10,500	10,900
20	7,080	21,000	18,900	6,260	16,900	15,700	29,500	21,700	14,200	10,700	10,500	10,600
21	7,260	28,600	18,600	22,500	16,300	15,600	27,700	22,800	13,900	10,700	10,500	10,500
22	7,300	19,100	18,300	62,200	15,300	15,200	26,100	23,700	13,800	10,700	10,500	10,500
23	7,280	17,700	18,200	48,300	14,100	14,500	26,000	23,900	13,500	10,800	10,600	10,500
24	7,280	15,200	17,900	28,500	13,400	14,800	28,600	24,000	13,100	10,700	10,600	10,600
25	7,280	15,900	17,100	41,200	13,300	13,800	30,300	23,900	13,100	10,700	10,700	10,600
26	7,160	15,700	16,600	30,100	13,400	12,900	30,100	23,300	13,000	10,700	10,700	10,600
27	7,280	15,600	16,300	44,700	12,900	12,300	29,200	22,100	12,800	10,600	10,900	10,600
28	7,200	15,500	16,000	47,100	12,600	11,700	31,900	20,900	12,600	10,600	10,900	10,400
29	7,340	22,400	15,200	57,600	------	11,400	27,900	19,900	12,600	10,700	10,900	10,300
30	7,360	25,700	13,700	80,500	------	11,200	25,800	19,000	12,500	10,700	10,500	10,200
31	7,360	------	12,900	88,000	------	11,700	------	18,200	------	10,700	10,200	------
TOTAL	220,840	375,750	883,700	708,010	886,600	412,790	672,700	648,800	452,200	346,300	328,100	318,200
MEAN	7,124	12,530	28,510	22,840	31,660	13,320	22,420	20,930	15,070	11,170	10,580	10,610
MAX	7,360	28,600	54,400	88,000	97,000	26,000	31,900	24,700	18,800	12,400	10,900	10,900
MIN	6,800	7,400	12,900	6,160	12,600	9,250	11,900	18,200	12,500	10,600	10,200	10,200
AC-FT	438,000	745,300	1,753M	1,404M	1,759M	818,800	1,334M	1,287M	896,900	686,900	650,800	631,100

CAL YR 1966 TOTAL 4,752,310 MEAN 13,020 MAX 68,600 MIN 6,760 AC-FT 9,426,000
WTR YR 1967 TOTAL 6,253,990 MEAN 17,130 MAX 97,000 MIN 6,160 AC-FT 12,400,000

M EXPRESSED IN THOUSANDS.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10,100	9,670	8,900	9,800	18,700	44,000	10,300	8,140	6,420	9,750	11,100	8,050
2	9,860	9,600	8,720	9,430	17,500	37,500	10,600	8,160	7,120	9,710	11,100	7,980
3	10,100	8,640	9,250	9,140	25,900	31,000	10,200	8,160	7,330	10,000	11,100	8,020
4	10,500	8,370	13,400	9,080	22,800	25,100	9,590	8,210	7,250	10,100	11,100	8,060
5	10,200	8,370	12,600	9,000	18,000	22,200	9,130	8,320	7,520	10,000	11,100	8,140
6	10,000	7,800	13,700	8,740	16,100	21,200	8,860	8,410	7,900	10,300	11,200	8,340
7	9,910	7,510	11,100	8,230	15,200	20,300	8,530	8,480	8,250	10,400	11,100	8,450
8	9,820	7,430	13,900	8,030	14,600	19,700	8,030	8,410	8,520	10,300	11,100	8,550
9	9,740	7,490	11,700	8,040	14,000	19,200	7,410	8,380	8,560	10,300	11,200	8,650
10	9,740	7,400	10,600	13,400	14,000	18,600	7,570	8,420	8,540	10,200	11,100	8,700
11	9,760	7,430	10,300	24,300	13,800	17,600	7,880	8,430	8,410	10,300	11,200	8,820
12	9,580	7,470	10,000	13,700	13,200	17,100	7,820	8,560	8,310	10,300	11,200	8,950
13	9,630	7,470	9,850	11,100	12,800	17,800	7,710	8,620	8,160	10,600	11,300	9,070
14	9,520	7,600	9,710	12,700	12,700	20,000	7,370	9,030	7,950	10,700	11,300	9,130
15	9,450	8,110	9,540	38,500	12,300	19,400	7,170	8,840	7,790	10,700	11,100	9,210
16	9,540	8,150	9,560	49,900	12,100	18,700	7,080	8,070	8,020	10,700	10,800	9,200
17	9,490	7,820	9,600	27,700	17,900	24,200	7,100	7,570	8,110	10,700	10,400	9,140
18	9,490	7,820	9,560	18,200	34,000	20,400	7,260	7,350	7,990	10,800	9,950	9,280
19	9,430	7,980	9,610	14,700	24,900	16,600	7,280	7,340	7,780	10,700	9,780	9,070
20	9,430	8,090	9,610	13,000	35,800	14,900	7,610	7,510	8,400	10,800	10,300	9,200
21	9,450	7,950	9,530	12,100	56,200	13,800	7,990	7,690	8,510	10,900	10,700	9,300
22	9,520	7,760	9,480	11,400	54,900	13,100	8,330	7,660	8,460	10,900	11,500	9,370
23	9,580	7,690	9,460	11,100	52,500	12,500	8,350	7,550	8,440	10,900	9,570	9,520
24	9,600	7,670	9,460	10,800	58,300	12,200	8,480	7,470	8,440	10,900	9,120	9,600
25	9,600	7,670	9,480	10,500	64,500	11,800	8,580	7,350	8,480	10,900	8,920	9,450
26	9,670	7,650	9,570	10,200	68,500	11,900	8,330	7,250	8,760	10,900	8,880	9,340
27	9,690	7,620	9,770	9,990	65,000	11,700	8,210	7,150	9,400	11,000	8,890	9,270
28	9,650	7,650	10,000	9,750	58,000	11,200	8,250	6,940	9,610	11,000	8,700	9,320
29	9,600	7,890	10,100	11,900	53,000	11,100	8,170	6,710	9,630	11,000	8,510	9,070
30	9,560	8,390	10,000	37,000	------	10,700	8,040	6,530	9,680	11,000	8,300	9,310
31	9,560	------	9,930	31,700	------	10,400	------	6,390	------	11,000	8,130	------
TOTAL	300,770	238,160	317,990	483,130	897,200	575,900	247,230	243,100	247,740	327,760	319,750	267,560
MEAN	9,702	7,939	10,260	15,580	30,940	18,580	8,241	7,842	8,258	10,570	10,310	8,919
MAX	10,500	9,670	13,900	49,900	68,500	44,000	10,600	9,030	9,680	11,000	11,500	9,600
MIN	9,430	7,400	8,720	8,030	12,100	10,400	7,080	6,390	6,420	9,710	8,130	7,980
AC-FT	596,600	472,400	630,700	958,300	1,780M	1,142M	490,400	482,200	491,400	650,100	634,200	530,700

CAL YR 1967 TOTAL 5,630,620 MEAN 15,430 MAX 97,000 MIN 6,160 AC-FT 11,170,000
WTR YR 1968 TOTAL 4,466,290 MEAN 12,200 MAX 68,500 MIN 6,390 AC-FT 8,859,000

M EXPRESSED IN THOUSANDS.

11389000 SACRAMENTO RIVER AT BUTTE CITY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9,330	8,300	8,560	14,200	47,000	64,500	18,300	15,000	15,900	12,500	9,790	10,700
2	8,880	7,930	8,540	12,600	40,100	58,300	18,000	15,100	15,700	12,600	9,820	10,800
3	8,160	7,940	8,540	12,200	34,500	43,200	17,200	15,000	15,600	11,500	9,780	10,600
4	7,760	8,700	8,380	12,400	29,700	38,200	16,000	14,600	15,400	11,100	9,770	10,200
5	7,420	8,610	8,270	12,700	30,500	32,600	15,300	14,300	15,200	11,000	9,680	9,600
6	7,190	8,280	8,260	12,600	46,400	29,200	19,600	14,300	15,000	10,900	9,670	8,880
7	7,120	8,090	8,240	11,900	52,700	26,400	19,700	14,800	15,000	10,800	9,670	8,390
8	7,180	8,080	8,320	11,200	38,400	24,000	16,900	15,500	14,800	10,700	9,740	8,410
9	7,270	8,040	8,570	10,300	36,900	22,600	15,700	15,900	14,700	10,500	9,790	8,370
10	7,200	8,130	12,300	9,480	50,400	21,700	15,000	16,400	14,900	10,400	9,770	8,380
11	7,290	8,170	31,900	9,010	49,600	20,900	14,400	16,800	14,900	10,400	9,830	8,430
12	7,670	8,330	20,400	24,200	75,000	19,600	14,300	16,900	15,000	10,300	9,840	8,380
13	8,400	9,330	13,200	71,900	92,000	18,500	14,500	17,100	14,900	10,300	9,840	8,450
14	8,740	8,910	17,400	114,000	83,000	17,700	14,300	17,600	14,700	10,200	9,850	8,500
15	8,660	9,150	27,600	79,200	81,000	17,100	13,800	17,900	14,500	10,200	9,810	8,590
16	8,410	9,370	32,500	41,500	99,000	16,400	13,100	15,600	14,300	10,100	9,890	8,640
17	8,170	9,160	20,800	30,600	80,000	16,300	12,100	18,500	14,000	10,000	9,900	8,720
18	8,100	8,940	14,300	25,800	73,000	16,300	12,300	19,200	13,900	9,940	9,970	8,790
19	8,040	10,400	12,000	31,200	66,300	16,800	13,000	19,300	13,900	9,850	9,980	8,830
20	8,040	9,830	10,700	60,500	63,500	16,400	12,500	19,200	14,000	9,860	9,990	8,930
21	8,030	9,030	9,810	96,800	62,100	17,300	12,400	18,800	13,900	9,890	10,000	8,990
22	7,810	8,660	9,200	111,000	54,200	18,500	12,700	18,700	13,800	9,820	10,000	9,010
23	7,830	8,420	9,290	108,000	45,700	16,700	13,900	18,400	13,700	9,800	10,100	8,910
24	7,720	8,350	17,800	92,400	48,900	16,200	15,500	18,000	13,500	9,910	10,100	8,930
25	7,670	8,440	46,100	82,000	57,300	15,900	15,300	17,900	13,300	9,770	10,300	8,900
26	7,580	8,620	49,700	85,000	49,800	15,800	14,300	17,700	13,200	9,830	10,400	8,940
27	7,600	8,470	29,300	95,200	40,900	15,800	14,100	17,600	13,200	9,890	10,300	8,980
28	7,570	8,330	21,000	86,400	44,400	16,300	14,100	17,300	13,000	9,910	10,400	8,970
29	7,770	8,270	32,500	74,600	------	16,900	14,200	17,000	12,900	9,800	10,600	8,960
30	8,170	8,320	22,900	68,500	------	17,600	14,600	16,900	12,900	9,740	10,600	9,040
31	8,560	------	16,700	53,700	------	18,000	------	16,700	------	9,720	10,700	------
TOTAL	245,340	258,600	553,080	1,561.1M	1,572.3M	721,700	447,100	524,000	429,700	321,230	309,880	270,220
MEAN	7,914	8,620	17,840	50,360	56,150	23,280	14,900	16,900	14,320	10,360	9,996	9,007
MAX	9,330	10,400	49,700	114,000	99,000	64,500	19,700	19,300	15,900	12,600	10,700	10,800
MIN	7,120	7,930	8,240	9,010	29,700	15,800	12,100	14,300	12,900	9,720	9,670	8,370
AC-FT	486,600	512,900	1,097M	3,096M	3,119M	1,431M	886,800	1,039M	852,300	637,200	614,600	536,000

CAL YR 1968 TOTAL 4,666,390 MEAN 12,750 MAX 68,500 MIN 6,390 AC-FT 9,256,000
WTR YR 1969 TOTAL 7,214,240 MEAN 19,770 MAX 114,000 MIN 7,120 AC-FT 14,310,000

M EXPRESSED IN THOUSANDS.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9,080	8,430	8,860	26,600	95,500	24,300	11,400	10,300	7,070	8,830	7,630	7,570
2	8,730	8,390	8,840	25,400	92,400	30,400	10,900	10,300	7,230	8,690	7,530	7,560
3	8,130	8,360	8,850	23,100	86,900	21,400	10,300	10,300	7,320	8,650	7,490	7,250
4	8,000	8,340	8,870	20,200	78,600	19,600	10,000	10,300	7,360	8,600	7,400	7,130
5	7,950	8,600	8,810	19,200	73,300	26,700	9,630	9,210	7,600	8,550	7,370	7,120
6	7,940	10,200	8,810	18,600	68,000	24,200	9,270	8,610	7,600	8,520	7,380	6,970
7	7,880	10,100	8,800	18,300	62,100	20,200	9,100	8,670	7,910	8,400	7,370	6,940
8	7,850	9,850	8,930	18,100	59,800	23,200	8,810	8,730	8,110	8,260	7,420	6,960
9	7,610	9,490	8,940	21,700	58,400	26,100	8,460	8,750	8,230	8,130	7,370	7,010
10	7,930	9,260	8,570	51,300	53,600	24,000	8,040	8,980	8,420	8,180	7,390	7,100
11	7,900	8,400	8,210	52,100	47,400	23,900	7,800	9,070	8,650	8,360	7,320	7,270
12	7,940	6,990	9,450	34,200	42,900	21,200	8,060	9,050	8,570	8,930	7,160	7,220
13	7,990	6,230	31,200	35,900	40,900	20,200	8,750	8,770	8,280	9,080	7,150	7,110
14	7,970	8,200	30,000	51,100	47,100	19,300	8,990	8,280	8,340	9,110	6,940	7,140
15	8,240	8,820	20,200	85,600	39,800	18,700	9,160	7,540	8,490	9,020	6,960	7,210
16	8,990	8,890	17,900	82,200	32,400	17,900	8,720	7,160	8,610	8,850	6,830	7,360
17	9,980	8,890	16,100	105,000	34,800	17,000	8,460	7,060	8,460	8,890	6,960	7,450
18	9,530	8,900	15,500	106,000	36,800	16,400	8,250	6,980	8,350	8,910	6,980	7,440
19	9,060	9,100	18,500	82,500	31,500	16,300	8,130	6,940	8,240	8,910	7,030	7,530
20	8,890	8,960	47,400	74,200	30,100	15,600	8,010	6,870	8,230	8,930	7,070	7,520
21	8,790	8,930	59,500	87,100	28,000	15,000	8,090	6,890	8,400	8,770	7,020	7,600
22	8,720	8,980	63,700	106,000	26,700	14,500	7,970	6,790	8,590	8,690	6,900	7,520
23	8,660	8,830	50,600	121,000	25,500	14,300	8,440	6,770	8,520	8,610	7,070	7,500
24	8,670	8,930	54,700	134,000	24,400	14,000	8,890	6,760	8,370	8,890	7,200	7,500
25	8,590	8,880	58,500	146,000	23,800	13,600	9,730	6,870	8,320	8,990	7,190	7,430
26	8,640	8,880	52,000	122,000	22,700	13,500	10,100	6,970	8,340	8,790	7,190	7,540
27	8,620	8,870	47,800	114,000	22,000	13,100	10,200	6,950	8,360	8,480	7,210	7,640
28	8,600	8,860	43,600	123,000	21,700	12,700	10,300	7,030	8,500	8,460	7,260	7,610
29	8,580	8,860	41,500	119,000	------	12,600	10,300	6,970	8,860	8,370	7,310	7,440
30	8,490	8,860	39,400	106,000	------	12,300	10,300	6,920	9,010	7,930	7,450	7,500
31	8,480	------	31,800	99,100	------	11,800	------	6,870	------	7,830	7,500	------
TOTAL	262,430	263,280	845,840	2,228.5M	1,307.1M	574,000	274,560	247,660	246,340	267,610	224,050	220,140
MEAN	8,465	8,776	27,290	71,890	46,680	18,520	9,152	7,989	8,211	8,633	7,227	7,338
MAX	9,980	10,200	63,700	146,000	95,500	30,400	11,400	10,300	9,010	9,110	7,630	7,640
MIN	7,610	6,230	8,210	18,100	21,700	11,800	7,800	6,760	7,070	7,830	6,830	6,940
AC-FT	520,500	522,200	1,678M	4,420M	2,593M	1,139M	544,600	491,200	488,600	530,800	444,400	436,600

CAL YR 1969 TOTAL 7,528,770 MEAN 20,630 MAX 114,000 MIN 6,230 AC-FT 14,930,000
WTR YR 1970 TOTAL 6,961,510 MEAN 19,070 MAX 146,000 MIN 6,230 AC-FT 13,810,000

M EXPRESSED IN THOUSANDS.

11389500 SACRAMENTO RIVER AT COLUSA, CALIF.

LOCATION.--Lat 39°12'51", long 121°59'57", at north end of Jimeno Grant, Colusa County, on right bank just downstream from highway bridge at Colusa, at mile 89.4 upstream from Sacramento.

DRAINAGE AREA.--12,096 sq mi (revised).

PERIOD OF RECORD.--April 1921 to October 1939 (low-water periods only), June 1940 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 2.95 ft below mean sea level. Prior to December 1930, water-stage recorder in center fender pier 50 ft upstream from bridge at present datum.

AVERAGE DISCHARGE.--30 years (1940-70), 11,111 cfs (8,050,000 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 6, 1966	40,500	63.97	Sept.30, 1966	7,140
1967	Feb. 1, 1967	39,500	65.83	Jan. 19, 1967	6,230
1968	Feb. 26, 1968	39,100	64.50	June 1, 1968	5,940
1969	Jan. 23, 1969	42,700	65.66	Oct. 8, 1968	7,070
1970	Jan. 25, 1970	48,400	67.61	Aug. 17, 1970	6,550

Period of record: Maximum discharge (1940-70), 49,000 cfs Feb. 8, 1942 (gage height, 69.20 ft); minimum recorded (1921-70), 820 cfs July 25, 26, 1931 (gage height, 34.79 ft).

REMARKS.--Records good. Natural flow of stream affected by storage reservoirs, power development, bypassing for flood control, diversions for irrigation, and return flow from irrigated areas. Water-quality records for the water year 1966 are published in reports of the Geological Survey.

REVISIONS (WATER YEARS).--WSP 1345: 1952.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8,380	8,440	10,700	18,600	19,700	11,800	10,900	7,880	7,180	9,410	10,000	9,100
2	8,110	8,390	9,740	16,900	21,900	11,100	10,900	7,830	7,180	9,400	10,000	8,300
3	8,040	8,220	10,600	15,500	23,000	10,500	10,900	7,800	7,180	9,500	10,100	7,870
4	8,050	8,200	13,200	15,100	22,800	9,880	10,600	7,790	7,420	9,830	10,200	7,780
5	8,020	8,240	13,800	24,600	33,100	9,170	10,100	7,920	8,070	9,930	10,100	7,720
6	8,050	8,260	14,100	38,600	32,100	9,340	9,360	8,090	8,190	9,970	10,100	7,720
7	8,080	8,250	14,200	38,400	31,300	9,760	8,820	8,240	8,200	9,950	10,000	7,700
8	8,080	8,370	14,300	34,300	27,500	9,730	8,460	8,210	8,270	10,000	10,100	7,480
9	8,060	8,520	14,400	32,400	21,700	9,860	8,030	8,210	8,260	10,000	10,000	7,430
10	8,030	8,690	14,500	31,300	18,200	10,500	7,810	8,330	8,220	10,100	10,100	7,440
11	8,040	8,610	14,500	28,700	15,700	12,300	9,450	8,640	8,180	10,100	9,980	7,270
12	8,060	8,600	14,600	25,500	14,300	13,500	10,000	9,310	8,110	10,200	10,000	7,250
13	8,070	9,050	14,800	23,800	13,200	12,400	9,970	9,380	8,090	10,600	9,990	7,250
14	8,080	10,000	14,600	22,800	12,600	11,800	9,120	9,290	7,980	10,700	10,000	7,230
15	8,140	13,700	14,400	22,100	12,200	11,900	8,080	9,180	7,840	10,900	10,000	7,230
16	8,220	20,800	14,300	21,600	11,800	12,100	7,990	9,090	7,720	10,900	10,100	7,220
17	8,260	18,200	14,200	21,400	11,400	12,600	8,520	9,000	8,260	11,000	10,200	7,220
18	8,260	16,000	14,200	21,200	10,700	12,900	9,310	8,910	8,460	11,100	10,200	7,220
19	8,320	22,000	14,200	21,100	10,500	13,200	9,950	8,830	8,630	11,200	9,950	7,220
20	8,370	18,300	14,200	20,700	10,900	14,000	10,200	8,230	9,170	11,200	9,590	7,210
21	8,360	15,300	14,200	20,400	12,500	14,200	9,780	7,910	9,260	11,200	9,880	7,210
22	8,380	14,600	13,900	20,200	11,000	14,100	9,480	7,870	9,350	11,300	10,100	7,210
23	8,370	13,800	13,200	20,100	10,300	14,000	9,340	7,790	9,370	11,300	10,100	7,210
24	8,340	13,400	13,100	20,000	10,500	13,200	9,210	7,660	9,440	11,200	9,870	7,200
25	8,320	14,900	13,500	20,000	12,000	12,900	9,140	7,550	9,480	10,700	9,560	7,200
26	8,280	15,800	14,300	19,800	13,600	12,900	9,140	7,440	9,450	10,600	9,590	7,190
27	8,280	15,900	14,100	19,000	15,100	11,200	8,860	7,410	9,460	10,600	9,650	7,190
28	8,300	16,100	13,800	17,900	13,200	11,700	8,640	7,320	9,510	10,600	9,690	7,180
29	8,330	15,500	15,800	16,900	------	11,700	8,230	7,300	9,500	10,700	9,720	7,160
30	8,370	13,700	20,200	17,500	------	11,300	7,990	7,220	9,480	11,000	9,780	7,140
31	8,390	------	18,200	22,200	------	11,000	------	7,200	------	10,400	9,710	------
TOTAL	254,440	377,840	437,840	708,600	472,800	366,540	278,280	252,830	254,910	325,590	308,360	222,750
MEAN	8,208	12,590	14,120	22,860	16,890	11,820	9,276	8,156	8,497	10,500	9,947	7,425
MAX	8,390	22,000	20,200	38,600	33,100	14,200	10,900	9,380	9,510	11,300	10,200	9,100
MIN	8,020	8,200	9,740	15,100	10,300	9,170	7,810	7,200	7,180	9,400	9,560	7,140
AC-FT	504,700	749,400	868,500	1,406M	937,800	727,000	552,000	501,500	505,600	645,800	611,600	441,800

CAL YR 1965 TOTAL 4,701,750 MEAN 12,880 MAX 43,500 MIN 6,580 AC-FT 9,326,000
WTR YR 1966 TOTAL 4,260,780 MEAN 11,670 MAX 38,600 MIN 7,140 AC-FT 8,451,000

M EXPRESSED IN THOUSANDS.

11389500 SACRAMENTO RIVER AT COLUSA, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7,140	7,280	22,100	12,200	39,200	12,500	13,300	26,300	17,900	11,800	10,300	10,100
2	7,140	7,310	21,500	11,400	38,600	12,300	16,500	24,800	17,400	11,600	10,200	10,100
3	7,130	7,350	29,500	11,100	36,500	11,900	15,100	22,500	18,100	11,600	10,200	10,200
4	7,130	7,400	35,300	10,900	35,200	11,600	13,200	21,300	18,200	11,700	10,200	10,300
5	7,120	7,480	33,000	10,200	34,400	11,100	12,300	20,700	17,500	11,500	10,200	10,400
6	7,030	7,530	35,700	9,430	34,000	10,800	12,100	19,700	17,100	11,300	10,200	10,400
7	7,140	7,980	35,700	8,630	33,600	10,600	16,600	18,600	17,000	11,200	10,300	10,400
8	7,130	8,330	35,600	8,200	32,700	10,100	20,900	18,000	16,800	11,000	10,300	10,400
9	7,140	8,070	35,800	8,020	30,800	9,710	21,300	17,900	16,100	10,800	10,200	10,400
10	7,150	8,030	36,100	7,880	28,100	9,400	20,400	18,100	15,900	10,700	10,100	10,300
11	7,130	8,010	35,900	7,590	24,900	9,180	19,900	19,600	15,800	10,700	10,200	10,400
12	7,100	8,010	32,900	7,170	22,900	12,500	21,300	20,300	15,500	10,600	10,300	10,600
13	7,120	8,130	27,600	6,880	21,900	13,800	20,800	19,400	15,400	10,600	10,300	10,700
14	7,140	8,420	25,200	6,650	21,500	13,800	20,100	19,700	15,200	10,500	10,300	10,700
15	7,180	8,530	26,100	6,560	20,700	13,400	21,600	19,500	14,900	10,500	10,300	10,700
16	7,160	9,260	24,000	6,480	19,800	13,100	21,800	19,300	14,600	10,400	10,100	10,600
17	7,140	12,000	22,100	6,360	18,600	21,500	21,300	19,800	14,400	10,500	10,100	10,700
18	7,180	10,900	20,900	6,300	17,900	23,600	22,000	20,500	14,200	10,500	10,000	10,800
19	7,160	9,650	20,000	6,230	17,000	19,900	27,200	21,000	14,000	10,300	10,000	10,900
20	7,100	13,200	19,300	6,250	16,400	17,400	29,200	21,100	13,900	10,300	10,100	10,800
21	7,160	25,700	18,900	11,300	16,000	15,800	29,400	22,000	13,700	10,300	10,100	10,600
22	7,200	22,500	18,500	31,600	15,000	15,800	27,800	23,000	13,500	10,300	10,100	10,600
23	7,280	19,300	18,300	35,100	14,000	15,100	26,900	23,800	13,200	10,400	10,100	10,600
24	7,210	16,000	18,100	29,500	13,300	14,800	28,400	24,100	12,800	10,400	10,100	10,700
25	7,270	15,500	17,600	31,100	13,100	14,600	30,200	24,300	12,700	10,400	10,100	10,600
26	7,190	15,500	16,800	30,200	13,200	13,600	30,400	24,000	12,500	10,300	10,200	10,600
27	7,160	15,200	16,500	30,800	13,000	12,800	30,300	23,200	12,300	10,200	10,400	10,600
28	7,210	15,000	16,200	32,900	12,700	12,100	30,900	21,900	12,100	10,200	10,400	10,500
29	7,220	17,000	15,500	33,700	------	11,600	30,200	20,500	12,000	10,300	10,400	10,300
30	7,220	24,400	14,400	36,700	------	11,400	28,000	19,400	11,900	10,300	10,300	10,200
31	7,260	------	13,300	38,300	------	11,300	------	18,400	------	10,400	10,100	------
TOTAL	222,040	358,970	758,400	505,630	655,000	417,090	679,400	652,700	446,600	331,600	316,200	315,200
MEAN	7,163	11,970	24,460	16,310	23,390	13,450	22,650	21,050	14,890	10,700	10,200	10,510
MAX	7,280	25,700	36,100	38,300	39,200	23,600	30,900	26,300	18,200	11,800	10,400	10,900
MIN	7,030	7,280	13,300	6,230	12,700	9,180	12,100	17,900	11,900	10,200	10,000	10,100
AC-FT	440,400	712,000	1,504M	1,003M	1,299M	827,300	1,348M	1,295M	885,800	657,700	627,200	625,200

CAL YR 1966 TOTAL 4,530,070 MEAN 12,410 MAX 38,600 MIN 7,030 AC-FT 8,985,000
WTR YR 1967 TOTAL 5,658,830 MEAN 15,500 MAX 39,200 MIN 6,230 AC-FT 11,220,000

M EXPRESSED IN THOUSANDS.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10,200	9,560	8,570	8,950	23,200	34,700	10,500	7,610	5,940	8,850	10,500	7,970
2	9,930	9,600	8,810	8,780	17,200	32,400	10,600	7,660	6,500	8,850	10,600	7,860
3	9,980	9,020	8,610	8,390	20,800	30,500	10,500	7,660	6,710	8,950	10,600	7,850
4	10,400	8,470	11,700	8,280	24,100	27,000	10,000	7,700	6,710	9,200	10,700	7,880
5	10,300	8,400	12,600	8,210	19,700	22,900	9,510	7,780	6,720	9,170	10,700	7,970
6	10,100	8,180	13,200	8,110	16,400	21,100	9,160	7,880	6,900	9,320	10,700	8,140
7	10,000	7,690	11,000	7,730	14,900	19,900	8,880	7,940	7,380	9,550	10,700	8,260
8	9,970	7,550	13,400	7,410	14,100	19,100	8,470	8,030	7,590	9,470	10,700	8,420
9	9,920	7,540	10,800	7,380	13,400	18,600	7,950	7,980	7,850	9,530	10,700	8,540
10	9,930	7,530	10,000	8,420	13,000	18,100	7,690	8,080	7,880	9,500	10,700	8,640
11	9,920	7,500	9,550	20,400	13,100	17,400	7,980	8,120	7,880	9,500	10,600	8,780
12	9,810	7,490	9,300	17,100	12,600	16,600	7,940	8,230	7,890	9,520	10,700	8,890
13	9,750	7,480	9,150	11,400	12,100	16,600	7,890	8,370	7,810	9,680	10,800	9,060
14	9,690	7,510	9,000	10,200	11,800	18,500	7,590	8,550	7,620	9,970	10,800	9,140
15	9,570	7,840	8,950	21,100	11,500	19,500	7,380	8,730	7,450	10,000	10,800	9,300
16	9,610	8,090	8,950	33,200	11,300	18,500	7,240	8,220	7,300	10,100	10,500	9,310
17	9,590	7,880	8,930	29,600	12,800	21,100	7,170	7,600	7,320	10,000	10,200	9,290
18	9,570	7,790	8,880	21,700	25,000	23,200	7,090	7,320	7,330	10,100	9,830	9,230
19	9,540	7,830	8,800	15,900	28,200	18,600	7,240	7,220	7,290	10,100	9,530	9,190
20	9,540	8,080	8,720	13,100	26,800	15,700	7,230	7,250	7,290	10,100	9,870	9,190
21	9,540	7,970	8,670	11,600	35,100	14,400	7,660	7,380	7,520	10,200	10,000	9,290
22	9,560	7,820	8,620	10,700	36,400	13,400	7,910	7,420	7,590	10,200	11,500	9,340
23	9,630	7,690	8,600	10,300	35,900	12,800	8,000	7,370	7,590	10,300	10,000	9,400
24	9,640	7,690	8,600	9,910	36,700	12,400	7,960	7,170	7,590	10,300	9,220	9,510
25	9,650	7,670	8,610	9,580	37,700	12,000	8,180	7,060	7,570	10,300	8,960	9,390
26	9,670	7,640	8,680	9,290	38,900	11,800	7,960	6,990	7,780	10,300	8,850	9,340
27	9,690	7,620	8,800	9,030	38,500	11,800	7,810	6,930	8,190	10,400	8,810	9,210
28	9,680	7,630	9,000	8,780	37,900	11,300	7,810	6,550	8,650	10,500	8,710	9,240
29	9,620	7,730	9,150	8,870	36,700	10,800	7,760	6,260	8,760	10,500	8,510	9,140
30	9,550	8,100	9,130	20,700	------	10,600	7,660	6,080	8,760	10,500	8,250	9,090
31	9,490	------	9,060	30,700	------	10,500	------	5,960	------	10,500	8,090	------
TOTAL	303,040	238,590	295,840	414,820	675,800	561,800	246,720	233,100	225,360	305,460	311,130	265,860
MEAN	9,775	7,953	9,543	13,380	23,300	18,120	8,224	7,519	7,512	9,854	10,040	8,862
MAX	10,400	9,600	13,400	33,200	38,900	34,700	10,600	8,730	8,760	10,500	11,500	9,510
MIN	9,490	7,480	8,570	7,380	11,300	10,500	7,090	5,960	5,940	8,850	8,090	7,850
AC-FT	601,100	473,200	586,800	822,800	1,340M	1,114M	489,400	462,400	447,000	605,900	617,100	527,300

CAL YR 1967 TOTAL 5,156,890 MEAN 14,130 MAX 39,200 MIN 6,230 AC-FT 10,230,000
WTR YR 1968 TOTAL 4,077,520 MEAN 11,140 MAX 38,900 MIN 5,940 AC-FT 8,088,000

M EXPRESSED IN THOUSANDS.

11389500 SACRAMENTO RIVER AT COLUSA, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9,250	8,160	8,000	14,800	34,700	36,100	17,400	14,200	15,500	12,200	9,330	10,300
2	8,970	7,900	8,100	12,900	33,200	37,100	17,600	14,600	15,100	11,900	9,370	10,400
3	8,480	7,560	8,100	11,900	31,500	34,400	17,100	14,400	14,900	11,600	9,350	10,400
4	7,840	8,070	7,900	11,800	28,900	32,900	16,400	14,300	14,700	10,800	9,370	10,200
5	7,600	8,320	7,800	11,800	26,800	31,000	15,400	13,900	14,500	10,600	9,360	9,690
6	7,250	8,090	7,800	12,000	31,800	28,900	16,800	13,700	14,300	10,600	9,340	9,100
7	7,170	7,840	7,800	11,500	35,400	25,800	19,800	13,900	14,200	10,500	9,300	8,490
8	7,070	7,770	7,900	10,900	33,100	23,300	18,100	14,500	14,100	10,400	9,340	8,400
9	7,200	7,750	8,100	10,200	31,300	21,400	16,400	14,900	14,000	10,300	9,390	8,390
10	7,170	7,750	9,000	9,520	33,700	20,200	15,600	15,300	14,000	10,100	9,390	8,400
11	7,210	7,840	17,900	8,960	34,800	19,300	15,000	15,800	14,200	10,100	9,440	8,380
12	7,380	7,880	24,200	12,500	36,000	18,300	14,600	16,100	14,200	10,000	9,470	8,400
13	7,960	8,580	15,700	32,500	39,900	17,200	14,700	16,200	14,300	10,000	9,430	8,420
14	8,440	8,680	12,900	40,400	39,500	16,400	14,700	16,500	14,200	9,930	9,450	8,490
15	8,530	8,710	22,100	40,800	38,300	15,900	14,300	16,900	14,000	9,880	9,410	8,550
16	8,320	8,900	26,400	34,900	40,400	15,400	13,800	16,200	13,900	9,790	9,490	8,620
17	8,110	8,620	25,500	30,500	40,300	15,100	13,100	16,200	13,700	9,750	9,490	8,690
18	7,990	9,580	16,700	26,500	38,300	15,200	12,400	17,800	13,400	9,600	9,560	8,730
19	7,920	9,290	12,800	25,000	37,500	15,400	13,000	18,300	13,400	9,510	9,560	8,780
20	7,890	8,530	11,000	33,800	37,100	15,400	12,900	18,400	13,400	9,540	9,570	8,860
21	7,870	8,160	10,000	39,700	36,800	15,500	12,500	18,100	13,300	9,520	9,570	8,880
22	7,690	8,110	9,340	42,200	36,100	17,200	12,500	17,900	13,300	9,510	9,580	8,900
23	7,700	8,240	8,970	42,500	34,100	16,400	13,100	17,700	13,200	9,500	9,630	8,840
24	7,590	8,040	11,700	41,400	34,100	15,600	14,400	17,300	13,000	9,490	9,670	8,790
25	7,560	7,930	26,900	40,000	35,300	15,300	15,200	17,200	12,800	9,430	9,740	8,740
26	7,470	8,040	34,500	39,700	35,300	15,200	14,500	17,000	12,700	9,370	9,810	8,730
27	7,450	8,000	31,000	40,800	33,200	15,100	13,900	16,800	12,600	9,490	9,860	8,730
28	7,420	7,800	22,200	40,900	32,500	15,400	13,800	16,600	12,500	9,480	9,940	8,750
29	7,490	7,700	24,800	39,500	------	15,900	13,700	16,400	12,400	9,390	10,100	8,730
30	7,740	7,800	26,100	38,800	------	16,500	13,900	16,100	12,300	9,310	10,200	8,780
31	8,210	------	18,600	36,600	------	17,000	------	16,000	------	9,310	10,300	------
TOTAL	241,940	245,640	489,810	845,280	979,900	629,800	446,600	499,200	412,100	310,900	296,810	267,560
MEAN	7,805	8,188	15,800	27,270	35,000	20,320	14,890	16,100	13,740	10,030	9,575	8,919
MAX	9,250	9,580	34,500	42,500	40,400	37,100	19,800	18,400	15,500	12,200	10,300	10,400
MIN	7,070	7,560	7,800	8,960	26,800	15,100	12,400	13,700	12,300	9,310	9,300	8,380
AC-FT	479,900	487,200	971,500	1,677M	1,944M	1,249M	885,800	990,200	817,400	616,700	588,700	530,700

CAL YR 1968 TOTAL 4,217,440 MEAN 11,520 MAX 38,900 MIN 5,940 AC-FT 8,365,000
WTR YR 1969 TOTAL 5,665,540 MEAN 15,520 MAX 42,500 MIN 7,070 AC-FT 11,240,000

M EXPRESSED IN THOUSANDS.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8,810	8,140	8,570	28,300	42,700	21,300	11,100	9,230	6,700	8,490	7,170	7,160
2	8,730	8,110	8,560	26,000	42,400	29,700	10,700	9,270	6,760	8,440	7,000	7,250
3	8,180	8,070	8,560	24,300	41,900	25,300	10,100	9,220	6,850	8,390	6,930	7,090
4	7,870	8,040	8,560	21,400	41,000	20,300	9,600	9,220	6,870	8,330	6,890	6,860
5	7,850	8,130	8,550	19,300	40,100	22,500	9,280	8,820	7,010	8,240	6,850	6,880
6	7,750	9,200	8,550	18,400	39,300	27,700	8,940	8,040	7,140	8,220	6,850	6,830
7	7,690	9,550	8,540	17,900	38,200	22,200	8,730	8,040	7,340	8,070	6,830	6,740
8	7,640	9,600	8,540	17,600	37,500	21,000	8,490	8,150	7,490	7,930	6,840	6,760
9	7,570	9,280	8,540	18,300	37,300	27,100	8,180	8,270	7,620	7,770	6,830	6,780
10	7,530	9,030	8,540	30,400	36,800	25,200	7,860	8,470	7,720	7,770	6,830	6,820
11	7,710	8,740	8,370	36,600	35,500	25,700	7,530	8,540	7,990	7,870	6,810	6,970
12	7,670	7,230	8,210	33,000	34,400	23,100	7,490	8,590	8,200	8,280	6,800	7,020
13	7,720	6,930	17,900	32,200	33,800	21,300	7,830	8,440	8,190	8,420	6,620	6,960
14	7,660	7,260	30,000	34,200	34,700	19,900	7,960	8,330	8,140	8,550	6,680	6,980
15	7,830	8,120	23,600	38,800	34,400	18,700	8,030	7,590	8,170	8,500	6,560	7,010
16	8,280	8,340	19,400	40,400	31,600	18,000	7,900	7,170	8,200	8,390	6,590	7,140
17	9,180	8,370	16,700	40,900	30,900	17,000	7,730	6,970	8,210	8,380	6,550	7,280
18	9,390	8,380	15,400	42,400	33,100	16,200	7,580	6,910	8,210	8,400	6,620	7,350
19	8,840	8,500	15,500	40,800	31,200	15,900	7,470	6,880	8,200	8,400	6,590	7,420
20	8,660	8,610	28,000	39,300	30,300	15,300	7,360	6,780	8,160	8,410	6,640	7,480
21	8,530	8,610	36,200	39,800	28,900	14,700	7,370	6,750	8,150	8,370	6,680	7,550
22	8,430	8,600	37,200	41,700	27,200	14,200	7,340	6,680	8,170	8,290	6,590	7,460
23	8,370	8,600	36,700	43,500	25,800	13,800	7,610	6,630	8,190	8,270	6,640	7,420
24	8,350	8,600	35,300	44,500	24,500	13,600	7,950	6,610	8,170	8,300	6,760	7,380
25	8,340	8,590	37,200	47,800	23,700	13,200	8,400	6,650	8,170	8,290	6,780	7,340
26	8,310	8,580	36,100	47,100	22,800	13,000	9,000	6,800	8,150	8,330	6,790	7,360
27	8,320	8,580	35,400	45,600	21,700	12,700	9,160	6,730	8,160	7,940	6,780	7,470
28	8,310	8,580	34,500	45,400	21,100	12,300	9,280	6,790	8,170	7,900	6,840	7,490
29	8,240	8,570	33,800	45,900	------	12,000	9,240	6,790	8,380	7,800	6,890	7,390
30	8,190	8,570	33,400	44,700	------	11,800	9,250	6,740	8,500	7,520	7,010	7,380
31	8,170	------	32,000	43,400	------	11,500	------	6,690	------	7,220	7,100	------
TOTAL	254,120	253,510	656,390	1,089.9M	922,800	576,200	254,460	236,790	235,380	253,480	210,340	215,020
MEAN	8,197	8,450	21,170	35,160	32,960	18,590	8,482	7,638	7,846	8,177	6,785	7,167
MAX	9,390	9,600	37,200	47,800	42,700	29,700	11,100	9,270	8,500	8,550	7,170	7,550
MIN	7,530	6,930	8,210	17,600	21,100	11,500	7,340	6,610	6,700	7,220	6,550	6,740
AC-FT	504,000	502,800	1,302M	2,162M	1,830M	1,143M	504,700	469,700	466,900	502,800	417,200	426,500

CAL YR 1969 TOTAL 5,852,170 MEAN 16,030 MAX 42,500 MIN 6,930 AC-FT 11,610,000
WTR YR 1970 TOTAL 5,158,390 MEAN 14,130 MAX 47,800 MIN 6,550 AC-FT 10,230,000

M EXPRESSED IN THOUSANDS.

11389700 BUTTE CREEK AT BUTTE MEADOWS, CALIF.

LOCATION.--Lat 40°04'06", long 121°34'25", in NW¼ sec.31, T.26 N., R.4 E., Tehama County, on right bank 1.0 mile downstream from small tributary, 1.5 miles southwest of Butte Meadows, and 15 miles northeast of Forest Ranch.

DRAINAGE AREA.--44.4 sq mi.

PERIOD OF RECORD.--August 1960 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 4,260 ft (from topographic map).

AVERAGE DISCHARGE.--10 years, 134 cfs (97,080 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (350 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Nov. 17, 1965	2030	480	3.38	Feb. 21, 1968	0500	565	3.50	Jan. 14, 1970	1000	1,620	5.01
Apr. 9, 1966	2300	*485	3.85	Feb. 23, 1968	0945	*679	3.69	Jan. 17, 1970	0400	1,570	4.93
								Jan. 23, 1970	2330	*4,270	7.62
Nov. 16, 1966	0215	358	3.12	Dec. 10, 1968	1315	477	3.34	Jan. 27, 1970	0130	1,340	4.76
Nov. 20, 1966	0045	794	3.94	Jan. 21, 1969	0615	*2,580	6.19	Feb. 12, 1970	1100	364	3.21
Dec. 2, 1966	1930	535	3.49	Jan. 26, 1969	0315	1,770	5.30	Mar. 1, 1970	0400	420	3.32
Dec. 5, 1966	0230	460	3.34	Apr. 5, 1969	0645	410	3.26	Mar. 7, 1970	2300	392	3.26
Jan. 21, 1967	1730	425	3.27	Apr. 23, 1969	0345	554	3.56				
Jan. 29, 1967	0800	*836	4.01	May 10, 1969	2100	883	4.12				
Mar. 16, 1967	1300	575	3.55								
Mar. 23, 1967	0445	374	3.14	Dec. 12, 1969	1530	378	3.18				
May 22, 1967	1915	831	3.94	Dec. 21, 1969	1000	1,890	5.45				
				Dec. 24, 1969	0130	589	3.46				
Jan. 15, 1968	0015	400	3.19	Jan. 9, 1970	1830	527	3.35				

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Sept. 3-9, 24-30, 1966	52	1969	Oct. 1-4, 6, 7, 1968	52
1967	Many days in October 1966	52	1970	Several days in July to September	58
1968	Sept.23-30, 1968	52			

Period of record: Maximum discharge, 4,290 cfs Dec. 22, 1964 (gage height, 7.64 ft); minimum, 46 cfs Sept. 4, 1961.

REMARKS.--Records good. No gage-height record Jan. 23 to Feb. 2, 1967. No storage or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	58	69	64	71	74	222	233	93	64	58	55
2	59	59	69	63	70	74	240	233	91	63	57	53
3	59	59	69	64	71	81	250	236	91	63	57	52
4	59	59	69	91	81	74	258	247	86	63	56	52
5	59	59	67	115	82	74	261	250	86	62	56	52
6	59	59	67	100	81	77	261	240	90	62	56	52
7	58	61	66	91	77	79	264	230	90	62	55	52
8	58	86	66	95	74	82	261	230	88	62	55	52
9	58	63	66	90	74	86	296	236	86	63	55	52
10	58	62	66	84	74	95	405	247	82	63	55	53
11	57	62	66	81	73	95	374	222	81	63	55	53
12	58	69	66	77	73	95	349	205	77	63	55	53
13	59	80	66	77	71	145	306	196	76	63	55	55
14	63	140	63	69	71	138	296	184	73	63	56	55
15	62	108	63	74	71	132	296	172	73	62	56	53
16	61	76	63	74	71	120	314	163	73	62	57	53
17	61	193	62	74	71	112	342	154	71	62	56	53
18	61	208	62	73	71	108	334	151	71	61	56	56
19	61	130	62	74	74	108	296	145	70	61	56	55
20	61	95	63	73	74	105	268	140	70	61	56	55
21	59	81	63	73	74	100	261	132	70	61	56	53
22	59	76	62	73	76	100	258	125	70	59	56	53
23	59	81	63	71	82	102	264	120	69	59	56	53
24	58	93	66	71	81	108	272	115	69	59	56	52
25	58	81	69	71	77	115	282	112	67	59	56	52
26	58	76	62	70	76	122	278	110	66	58	56	52
27	59	73	62	70	76	135	254	105	66	57	56	52
28	59	71	67	70	76	145	247	100	66	57	55	52
29	59	70	69	76	------	163	240	98	64	57	55	52
30	59	70	66	79	------	181	233	98	64	59	56	52
31	58	------	67	73	------	199	------	95	------	59	56	------
TOTAL	1,835	2,558	2,026	2,400	2,093	3,424	8,482	5,324	2,289	1,892	1,732	1,589
MEAN	59.2	85.3	65.4	77.4	74.8	110	283	172	76.3	61.0	55.9	53.0
MAX	63	208	69	115	82	199	405	250	93	64	58	56
MIN	57	58	62	63	70	74	222	95	64	57	55	52
AC-FT	3,640	5,070	4,020	4,760	4,150	6,790	16,820	10,560	4,540	3,750	3,440	3,150

CAL YR 1965 TOTAL 51,020 MEAN 140 MAX 523 MIN 57 AC-FT 101,200
WTR YR 1966 TOTAL 35,644 MEAN 97.7 MAX 405 MIN 52 AC-FT 70,700

11389700 BUTTE CREEK AT BUTTE MEADOWS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	53	230	75	370	116	187	112	392	174	79	66
2	53	53	320	74	305	114	178	119	351	165	79	65
3	53	53	251	74	271	112	176	129	339	156	79	66
4	52	53	219	74	247	110	169	142	352	147	78	66
5	53	53	292	74	229	108	166	148	346	140	77	66
6	53	70	202	71	213	106	165	166	341	134	77	65
7	53	59	170	71	204	105	159	212	346	129	76	65
8	53	56	143	71	194	105	157	272	346	123	75	65
9	53	55	129	70	186	110	158	325	358	119	75	64
10	53	55	127	70	180	120	154	340	349	115	75	64
11	53	57	116	71	175	220	147	291	349	111	75	64
12	53	72	113	70	178	200	146	274	341	108	74	64
13	53	59	131	70	179	185	146	279	327	104	73	63
14	52	64	123	70	174	170	144	307	320	102	73	63
15	53	118	113	69	164	180	138	373	323	99	73	63
16	53	169	107	69	159	450	132	460	329	99	72	63
17	53	68	103	68	154	378	133	522	331	97	72	64
18	53	61	98	67	149	321	133	590	337	94	71	65
19	53	211	95	67	143	279	129	635	346	92	71	63
20	53	390	93	76	137	268	126	671	326	91	70	63
21	53	137	91	266	134	269	121	709	304	90	70	63
22	53	100	89	205	131	259	118	750	280	88	69	64
23	53	82	88	145	130	328	117	711	260	87	69	64
24	52	75	86	130	129	279	119	704	248	86	69	64
25	52	71	84	120	129	257	120	676	239	85	73	63
26	52	70	81	115	123	240	115	628	225	84	73	63
27	53	68	79	130	120	231	119	588	213	83	70	62
28	52	119	78	280	118	226	111	539	206	83	68	62
29	52	251	78	690	------	211	108	514	195	82	67	62
30	52	138	77	560	------	204	108	476	185	82	67	63
31	52	------	76	440	------	198	------	430	------	80	66	------
TOTAL	1,633	2,940	4,082	4,502	5,025	6,459	4,199	13,092	9,204	3,329	2,255	1,917
MEAN	52.7	98.0	132	145	179	208	140	422	307	107	72.7	63.9
MAX	53	390	320	690	370	450	187	750	392	174	79	66
MIN	52	53	76	67	118	105	108	112	185	80	66	62
AC-FT	3,240	5,830	8,100	8,930	9,970	12,810	8,330	25,970	18,260	6,600	4,470	3,800

CAL YR 1966 TOTAL 37,880 MEAN 104 MAX 405 MIN 52 AC-FT 75,130
WTR YR 1967 TOTAL 58,637 MEAN 161 MAX 750 MIN 52 AC-FT 116,300

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	62	62	65	82	240	196	201	109	66	59	54
2	119	60	64	63	86	223	188	199	106	66	57	54
3	83	60	70	62	90	212	181	202	104	66	56	54
4	71	62	85	62	82	205	180	202	101	64	56	54
5	71	62	110	61	80	206	177	194	105	64	56	54
6	68	60	85	61	79	194	171	179	104	64	55	54
7	66	60	80	61	79	188	171	171	99	63	55	54
8	66	62	75	62	80	180	172	168	95	62	55	53
9	65	62	70	62	82	168	179	165	91	61	55	53
10	65	62	68	62	83	160	191	162	88	61	55	54
11	65	60	66	62	83	153	204	160	86	60	55	53
12	64	60	64	64	84	152	209	156	83	60	55	53
13	63	60	62	69	84	156	200	170	81	61	55	53
14	63	79	62	151	81	149	198	150	81	61	57	56
15	63	62	62	315	79	145	202	142	79	60	57	54
16	63	60	62	162	84	154	197	136	77	60	57	53
17	63	60	65	117	135	143	184	135	76	60	57	53
18	63	70	70	99	125	133	179	134	75	59	57	53
19	63	150	66	91	183	129	178	142	74	59	74	53
20	63	90	64	86	354	128	173	172	74	59	70	53
21	65	75	64	85	473	129	169	148	73	58	68	53
22	65	65	64	86	409	130	163	152	72	58	61	53
23	65	62	64	86	540	131	163	178	72	57	59	52
24	63	62	65	84	432	132	161	156	71	57	58	52
25	63	60	68	83	352	145	166	145	70	57	57	52
26	62	60	73	81	314	140	173	136	69	57	56	52
27	62	60	82	79	292	141	180	131	68	57	56	52
28	63	62	76	78	274	150	182	127	68	56	56	52
29	62	62	71	75	255	165	192	122	67	57	55	52
30	62	62	67	70	------	180	200	118	67	57	54	52
31	60	------	65	78	------	191	------	112	------	59	54	------
TOTAL	2,063	1,993	2,171	2,722	5,456	5,052	5,479	4,865	2,485	1,866	1,787	1,594
MEAN	66.5	66.4	70.0	87.8	188	163	183	157	82.8	60.2	57.6	53.1
MAX	119	150	110	315	540	240	209	202	109	66	74	56
MIN	60	60	62	61	79	128	161	112	67	56	54	52
AC-FT	4,090	3,950	4,310	5,400	10,820	10,020	10,870	9,650	4,930	3,700	3,540	3,160

CAL YR 1967 TOTAL 56,209 MEAN 154 MAX 750 MIN 60 AC-FT 111,500
WTR YR 1968 TOTAL 37,533 MEAN 103 MAX 540 MIN 52 AC-FT 74,450

11389700 BUTTE CREEK AT BUTTE MEADOWS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	60	63	68	301	127	271	447	347	107	75	68
2	52	70	60	68	269	123	263	445	335	102	75	68
3	52	76	60	69	248	119	245	443	326	100	73	67
4	52	68	60	70	234	116	237	407	315	98	73	68
5	53	62	60	68	228	115	345	443	305	96	73	66
6	52	61	60	68	217	113	273	548	285	94	73	65
7	52	60	60	69	204	111	245	610	260	92	73	66
8	53	59	63	68	200	108	240	645	244	92	73	66
9	54	62	68	68	216	107	232	704	239	90	73	65
10	54	60	291	67	215	105	229	776	219	89	71	65
11	69	78	147	76	283	101	247	795	231	87	71	65
12	117	113	101	183	249	100	267	757	211	87	71	65
13	90	71	90	231	217	98	268	735	208	85	71	65
14	79	67	89	148	209	98	264	654	202	85	71	65
15	66	66	117	125	204	99	256	583	202	83	70	65
16	62	65	99	110	185	101	264	573	187	83	70	65
17	60	66	86	100	177	105	294	588	175	81	70	65
18	59	89	81	106	173	108	344	597	181	81	70	65
19	58	77	79	412	167	104	349	573	172	81	70	66
20	58	69	76	1,500	162	104	376	530	158	79	70	66
21	57	66	75	1,970	155	106	416	513	147	79	69	64
22	57	66	72	1,010	147	108	475	508	142	78	69	63
23	57	64	74	642	149	113	518	512	137	79	68	63
24	56	68	77	484	145	115	422	496	132	78	68	63
25	56	65	80	768	143	121	376	480	127	76	68	63
26	56	64	75	1,250	135	130	352	462	122	76	68	63
27	56	63	73	767	130	143	341	424	120	75	69	63
28	56	62	73	577	133	157	355	384	115	75	69	63
29	75	62	70	448	------	174	413	372	111	76	69	63
30	74	63	70	379	------	204	446	380	109	76	68	63
31	62	------	68	329	------	251	------	368	------	75	68	------
TOTAL	1,906	2,042	2,617	12,298	5,495	3,784	9,623	16,752	6,064	2,635	2,189	1,947
MEAN	61.5	68.1	84.4	397	196	122	321	540	202	85.0	70.6	64.9
MAX	117	113	291	1,970	301	251	518	795	347	107	75	68
MIN	52	59	60	67	130	98	229	368	109	75	68	63
AC-FT	3,780	4,050	5,190	24,390	10,900	7,510	19,090	33,230	12,030	5,230	4,340	3,860

CAL YR 1968 TOTAL 37,871 MEAN 103 MAX 540 MIN 52 AC-FT 75,120
WTR YR 1969 TOTAL 67,352 MEAN 185 MAX 1,970 MIN 52 AC-FT 133,600

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	60	61	169	382	316	153	119	119	75	62	60
2	62	61	61	159	343	233	153	125	116	73	61	61
3	62	61	61	150	316	210	150	134	113	73	61	60
4	63	61	61	146	295	203	147	144	110	71	61	62
5	62	118	61	139	273	194	147	150	108	70	61	62
6	63	74	61	136	252	189	150	151	104	69	61	61
7	61	81	61	136	236	216	150	147	98	69	61	61
8	68	78	64	150	223	267	150	158	101	68	61	60
9	63	71	62	304	215	228	150	173	103	68	61	60
10	62	68	65	362	204	219	158	203	120	67	60	60
11	61	67	99	264	198	205	158	172	101	67	60	60
12	62	67	300	308	263	203	150	162	95	66	60	60
13	62	66	164	675	231	201	155	155	94	65	60	60
14	63	65	107	1,290	209	210	150	155	105	65	60	60
15	85	64	92	805	200	205	144	165	94	64	60	60
16	97	67	83	1,140	231	202	144	176	91	64	58	60
17	75	63	78	1,320	227	203	140	187	86	64	58	60
18	67	63	83	922	199	194	137	189	83	64	60	60
19	65	62	352	757	190	188	144	182	83	64	59	60
20	63	62	431	685	185	185	132	173	81	64	61	61
21	63	62	1,080	1,250	179	182	130	167	79	64	61	60
22	63	62	409	1,300	172	180	123	163	78	64	61	59
23	61	61	384	2,040	167	178	121	161	76	64	61	59
24	61	61	493	1,940	163	177	120	156	75	61	61	59
25	61	61	437	1,160	159	176	121	156	74	60	60	58
26	61	61	319	944	157	172	128	153	75	58	60	58
27	61	61	265	985	154	167	121	150	76	58	61	59
28	61	60	226	714	229	165	118	142	85	58	61	59
29	61	60	204	594	------	164	117	134	86	61	61	59
30	61	60	188	504	------	161	117	126	77	62	61	58
31	60	------	174	433	------	155	------	122	------	62	61	------
TOTAL	2,003	1,988	6,586	21,881	6,252	6,148	4,178	4,850	2,786	2,022	1,875	1,796
MEAN	64.6	66.3	212	706	223	198	139	156	92.9	65.2	60.5	59.9
MAX	97	118	1,080	2,040	382	316	158	203	120	75	62	62
MIN	60	60	61	136	154	155	117	119	74	58	58	58
AC-FT	3,970	3,940	13,060	43,400	12,400	12,190	8,290	9,620	5,530	4,010	3,720	3,560

CAL YR 1969 TOTAL 71,364 MEAN 196 MAX 1,970 MIN 60 AC-FT 141,600
WTR YR 1970 TOTAL 62,365 MEAN 171 MAX 2,040 MIN 58 AC-FT 123,700

11389950 LITTLE BUTTE CREEK AT MAGALIA, CALIF.

LOCATION.--Lat 39°48'38", long 121°35'00", in NW¼NE¼ sec.36, T.23 N., R.3 E., Butte County, on left bank 1,000 ft downstream from Magalia Dam and 0.4 mile northwest of Magalia.

DRAINAGE AREA.--11.4 sq mi.

PERIOD OF RECORD.--October 1968 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 2,160 ft (from topographic map).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1969-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1969	Jan. 21, 1969	1,080	6.55	Sept. 2, 1969	.26
1970	Jan. 24, 1970	1,180	6.47	June 3, 6, 7, 1970	.26

Period of record: Maximum discharge, 1,180 cfs Jan. 24, 1970 (gage height, 6.47 ft); minimum daily, 0.26 cfs Sept. 2, 1969, June 3, 6, 7, 1970.

REMARKS.--Records fair. Flow regulated by Paradise Reservoir (capacity, 6,430 acre-ft) and Magalia Reservoir (capacity, 3,540 acre-ft). Diversion occurs above Magalia Reservoir through a 30-inch pipeline into Pacific Gas & Electric Co.'s Toadtown Canal when Magalia Reservoir is spilling. Diversion is made from Magalia Reservoir for municipal supply of Paradise.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.53	.58	.55	2.2	113	136	20	12	.53	.53	.43	.40
2	.53	1.6	.48	1.8	105	93	20	11	.53	.53	.43	.26
3	.53	.96	.43	1.4	94	84	32	12	.53	.57	.43	.38
4	.57	.70	.43	1.2	92	74	24	13	.48	.60	.43	.38
5	.58	.64	.43	.99	118	69	86	7.7	.48	.62	.43	.38
6	.58	.63	.43	.84	168	67	76	4.2	.38	.61	.47	.38
7	.58	.63	.41	.77	156	64	49	2.8	.43	.53	.43	.38
8	.58	.63	.43	.78	141	63	39	3.6	.38	.51	.43	.38
9	.58	.63	.73	.68	331	59	34	2.8	.43	.53	.38	.37
10	.55	.63	3.8	.68	280	55	30	1.7	.58	.56	.38	.38
11	.71	1.2	1.0	9.1	263	51	26	1.2	.67	.57	.38	.36
12	1.6	.73	.73	42	290	48	25	1.3	.63	.57	.41	.38
13	.68	.47	1.2	628	182	47	24	3.0	.66	.57	.43	.37
14	.62	.47	2.0	269	158	43	24	4.7	.69	.58	.43	.34
15	.59	.75	2.4	131	399	41	23	4.0	.68	.58	.46	.38
16	.58	.55	1.1	97	248	40	20	2.4	.68	.57	.43	.43
17	.59	.48	.92	85	172	43	18	1.6	.68	.53	.48	.42
18	.63	.75	.78	87	146	43	18	1.4	.63	.55	.39	.41
19	.63	.53	.78	259	126	40	16	2.2	.63	.57	.42	.38
20	.63	.48	.74	511	122	41	14	1.4	.61	.58	.39	.32
21	.63	.44	.75	859	116	59	13	.73	.63	.61	.42	.34
22	.63	.43	.78	348	110	47	12	.63	.63	.63	.46	.37
23	.63	.43	1.1	192	127	39	35	.63	.64	.54	.38	.39
24	.63	.59	4.9	150	132	36	38	.63	.48	.53	.43	.35
25	.63	.48	3.2	224	108	31	26	.58	.48	.49	.44	.36
26	.62	.44	7.4	362	80	28	20	.53	.46	.50	.43	.38
27	.60	.43	6.8	214	75	27	16	.58	.43	.50	.40	.38
28	.58	.43	9.5	180	144	26	14	.58	.46	.46	.39	.43
29	.84	.47	7.5	154	------	24	13	.53	.46	.45	.35	.43
30	.63	.53	4.7	145	------	24	12	.53	.51	.47	.38	.43
31	.58	------	3.1	116	------	23	------	.58	------	.41	.39	------
TOTAL	19.87	18.71	69.50	5,073.44	4,596	1,565	817	100.53	16.49	16.85	12.93	11.34
MEAN	.64	.62	2.24	164	164	50.5	27.2	3.24	.55	.54	.42	.38
MAX	1.6	1.6	9.5	859	399	136	86	13	.69	.63	.48	.43
MIN	.53	.43	.41	.68	75	23	12	.53	.38	.41	.35	.26
AC-FT	39	37	138	10,060	9,120	3,100	1,620	199	33	33	26	22
(†)	298	111	120	114	110	150	229	634	817	1,260	1,240	934

WTR YR 1969 TOTAL 12,317.66 MEAN 33.7 MAX 859 MIN .26 AC-FT 24,430

† DIVERSION, IN ACRE-FEET, FROM MAGALIA RESERVOIR, FURNISHED BY PARADISE IRRIGATION DISTRICT.

11389950 LITTLE BUTTE CREEK AT MAGALIA, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.43	.43	.34	1.4	83	233	8.5	1.1	.38	.79	.34	.52
2	.43	.43	.38	1.0	72	125	7.3	.53	.34	.80	.37	.48
3	.43	.43	.38	.90	64	73	6.3	.53	.26	.78	.38	.48
4	.43	.43	.38	.78	60	70	4.9	.43	.30	.68	.40	.48
5	.43	2.2	.38	.63	55	70	2.1	.43	.30	.63	.38	.48
6	.43	.53	.34	.58	50	57	5.1	.43	.26	.73	.43	.48
7	.50	.74	.37	.53	44	53	6.1	.43	.26	.73	.44	.48
8	.59	.60	.51	2.0	41	71	6.1	.43	.30	.68	.49	.43
9	.60	.51	.53	60	38	59	5.2	.43	.38	.58	.44	.38
10	.50	.48	1.1	155	35	58	5.7	.90	.43	.63	.46	.38
11	.52	.43	3.9	76	33	51	6.3	3.9	.34	.63	.43	.43
12	.53	.43	11	82	58	47	3.5	7.0	.34	.68	.43	.43
13	.56	.43	1.6	241	92	42	6.3	5.8	.34	.68	.43	.43
14	.55	.43	.96	704	85	39	19	2.3	.38	.58	.48	.43
15	.95	.43	.81	305	52	37	20	.38	.30	.60	.48	.48
16	.76	.43	.74	359	54	35	17	.34	.34	.58	.51	.48
17	.68	.43	.73	244	100	32	14	.34	.38	.58	.55	.50
18	.66	.48	.86	166	64	29	9.5	.34	.38	.58	.53	.54
19	.62	.48	9.4	139	47	27	9.8	.30	.43	.58	.53	.53
20	.53	.52	4.3	152	40	25	8.6	.30	.38	.63	.53	.53
21	.54	.30	34	466	37	24	6.7	.30	.43	.63	.53	.51
22	.54	.30	24	366	35	22	6.3	.38	.65	.63	.53	.43
23	.62	.34	25	501	33	20	4.9	.34	.48	.63	.53	.43
24	.58	.42	51	720	31	18	3.6	.30	.50	.63	.53	.41
25	.60	.46	26	330	29	17	2.8	.43	.53	.65	.53	.38
26	.58	.34	14	223	27	15	5.3	.43	.60	.60	.48	.38
27	.54	.34	8.2	342	26	13	8.6	.43	.67	.53	.48	.34
28	.50	.34	5.5	191	44	12	8.0	.38	.82	.58	.48	.38
29	.48	.34	3.8	137	------	12	7.7	.38	.78	.58	.48	.41
30	.48	.34	2.6	114	------	12	4.2	.43	.74	.55	.48	.43
31	.48	------	1.9	96	------	10	------	.43	------	.47	.48	------
TOTAL	17.07	14.79	235.01	6,176.82	1,429	1,408	229.4	30.87	13.02	19.63	14.56	13.47
MEAN	.55	.49	7.58	199	51.0	45.4	7.65	1.00	.43	.63	.47	.45
MAX	.95	2.2	51	720	100	233	20	7.0	.82	.80	.55	.54
MIN	.43	.30	.34	.53	26	10	2.1	.30	.26	.47	.34	.34
AC-FT	34	29	466	12,250	2,830	2,790	455	61	26	39	29	27
(†)	316	165	149	113	116	228	396	769	941	1,250	1,220	863

CAL YR 1969 TOTAL 12,476.45 MEAN 34.2 MAX 859 MIN .26 AC-FT 24,750
WTR YR 1970 TOTAL 9,601.64 MEAN 26.3 MAX 720 MIN .26 AC-FT 19,040

† DIVERSION, IN ACRE-FEET, FROM MAGALIA RESERVOIR, FURNISHED BY PARADISE IRRIGATION DISTRICT.

11390000 BUTTE CREEK NEAR CHICO, CALIF.

LOCATION.--Lat 39°43'34", long 121°42'28", in NW¼NW¼ sec.36, T.22 N., R.2 E., Butte County, on right bank 0.7 mile downstream from Little Butte Creek and 7.5 miles east of Chico.

DRAINAGE AREA.--147 sq mi.

PERIOD OF RECORD.--October 1930 to September 1970. Monthly discharge only for some periods, published in WSP 1315-A.

GAGE.--Water-stage recorder. Altitude of gage is 320 ft (from topographic map). Prior to Aug. 13, 1944, at site 0.4 mile upstream at different datum.

AVERAGE DISCHARGE.--40 years, 404 cfs (292,700 acre-ft per year), unadjusted.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (2,700 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Jan. 4, 1966	2045	*3,150	5.28	Feb. 21, 1968	0915	*3,090	5.06	Dec. 21, 1969	1430	5,750	7.69
								Dec. 24, 1969	0400	2,990	5.24
Dec. 2, 1966	2100	3,490	5.60	Jan. 13, 1969	1000	8,900	9.72	Jan. 9, 1970	2130	2,900	5.17
Dec. 5, 1966	0400	4,220	6.26	Jan. 21, 1969	0700	*12,900	12.44	Jan. 14, 1970	1030	10,200	11.01
Jan. 21, 1967	1745	*6,830	8.44	Jan. 26, 1969	0515	6,310	8.16	Jan. 16, 1970	1030	5,270	7.33
Jan. 29, 1967	0730	6,150	7.88	Feb. 12, 1969	0145	4,110	5.97	Jan. 21, 1970	1830	5,750	7.69
Mar. 16, 1967	1645	4,270	6.09	Feb. 15, 1969	1100	3,910	5.79	Jan. 24, 1970	0030	*16,500	13.40
								Jan. 27, 1970	0430	5,460	6.72
Jan. 15, 1968	0400	2,700	4.71	Dec. 19, 1969	1600	2,840	5.12	Mar. 1, 1970	0900	3,660	5.23

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Sept.30, 1966	72	1969	Oct. 24, 1968	78
1967	Nov. 11, 1966	65	1970	Nov. 4, 1969	93
1968	Oct. 31 to Nov. 3, 1967	84			

Period of record: Maximum discharge, 21,200 cfs Dec. 22, 1964 (gage height, 14.12 ft), from rating curve extended above 8,900 cfs on basis of slope-area measurement at gage height 13.35 ft; minimum, 10 cfs Nov.29, 1952.

REMARKS.--Records good. Flow slightly regulated by storage in Magalia Reservoir (capacity, 3,540 acre-ft) and since 1957 by Paradise Reservoir (capacity, 6,430 acre-ft). Diversions above station for irrigation and domestic use of about 4,200 acre-ft annually. Butte Creek receives water above station from West Branch Feather River by way of Toadtown Canal. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

REVISIONS (WATER YEARS).--WSP 1445: 1953(M). WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	144	109	222	268	412	385	655	472	251	138	141	112
2	144	98	213	236	382	367	680	465	249	138	136	109
3	143	98	209	225	350	342	671	458	246	137	133	106
4	142	98	210	1,330	644	330	656	464	241	137	148	103
5	142	101	209	2,320	838	328	645	471	237	135	114	103
6	141	120	203	1,250	703	338	645	463	235	133	131	106
7	140	117	199	814	585	382	649	445	246	133	128	103
8	140	167	194	699	478	391	641	432	242	135	125	106
9	139	117	190	629	417	427	653	435	233	136	140	109
10	138	101	187	535	378	570	1,040	460	220	134	98	106
11	129	98	187	440	344	567	977	438	214	134	106	109
12	122	106	207	375	325	517	994	404	207	137	109	112
13	120	202	191	366	308	695	858	384	200	136	103	112
14	120	517	184	344	298	702	757	375	190	135	109	116
15	131	401	176	331	282	654	717	362	187	136	109	115
16	125	195	172	329	285	601	715	346	184	134	109	113
17	122	344	169	316	275	529	739	339	181	133	112	111
18	122	1,060	166	303	274	491	745	327	173	131	114	114
19	122	596	162	291	369	514	665	319	167	131	112	120
20	120	465	159	278	399	489	613	313	164	129	114	114
21	120	334	160	267	363	463	582	307	163	128	114	111
22	117	277	160	264	351	447	571	301	162	128	114	109
23	117	260	152	256	418	434	564	292	163	131	112	111
24	114	581	233	245	457	439	561	283	157	129	109	110
25	117	456	333	238	461	443	570	275	150	128	112	111
26	114	345	246	232	475	461	578	271	146	128	109	111
27	114	301	207	229	421	492	530	265	143	141	109	110
28	117	271	363	224	397	523	507	263	139	137	109	106
29	114	252	533	285	------	558	489	259	139	137	112	105
30	114	237	406	489	------	578	477	256	139	138	112	72
31	114	------	334	397	------	623	------	255	------	147	120	------
TOTAL	3,918	8,424	6,936	14,805	11,689	15,080	20,144	11,199	5,768	4,164	3,623	3,255
MEAN	126	281	224	478	417	486	671	361	192	134	117	109
MAX	144	1,060	533	2,320	838	702	1,040	472	251	147	148	120
MIN	114	98	152	224	274	328	477	255	139	128	98	72
AC-FT	7,770	16,710	13,760	29,370	23,190	29,910	39,960	22,210	11,440	8,260	7,190	6,460
(+)	2,760	2,790	3,970	5,250	5,110	6,400	6,580	6,700	4,950	3,520	3,380	3,020

CAL YR 1965 TOTAL 172,999 MEAN 474 MAX 8,390 MIN 98 AC-FT 343,100
WTR YR 1966 TOTAL 109,005 MEAN 299 MAX 2,320 MIN 72 AC-FT 216,200

+ TOADTOWN CANAL DIVERSION, IN ACRE-FEET, FROM WEST BRANCH FEATHER RIVER (RECORDS FURNISHED BY PACIFIC GAS & ELECTRIC CO.).

11390000 BUTTE CREEK NEAR CHICO, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	114	81	809	261	2,780	415	852	712	816	344	188	183
2	114	79	1,860	254	1,910	405	765	712	747	334	187	184
3	114	80	1,590	248	1,440	405	744	728	679	319	187	180
4	114	80	1,430	245	1,190	395	751	760	674	309	183	176
5	114	79	2,770	244	1,030	385	883	790	704	302	182	175
6	114	125	1,230	235	899	380	1,740	780	663	294	182	178
7	114	144	780	231	822	375	1,510	920	658	290	182	177
8	114	93	564	227	738	375	1,160	1,120	644	281	181	177
9	112	88	465	223	684	375	1,040	1,250	650	272	179	178
10	111	76	521	219	658	415	1,040	1,370	632	270	179	178
11	111	65	487	224	634	955	1,070	1,160	623	268	179	181
12	113	155	447	224	627	800	947	1,060	629	262	178	179
13	116	155	456	222	618	730	891	980	618	258	175	178
14	118	125	483	219	599	628	883	990	575	255	175	176
15	118	395	429	210	561	589	830	1,110	562	244	174	176
16	119	590	400	211	539	3,120	751	1,270	555	233	174	176
17	118	230	380	208	517	2,420	891	1,360	563	232	173	176
18	117	155	367	205	502	1,610	987	1,380	551	220	170	157
19	117	950	354	202	493	1,370	995	1,380	566	219	170	179
20	117	1,730	344	639	460	1,230	995	1,400	547	212	170	176
21	119	900	335	5,080	455	1,210	923	1,420	518	211	170	174
22	120	850	322	2,970	447	1,140	845	1,440	487	205	171	176
23	119	320	317	1,320	436	1,540	830	1,440	459	200	171	180
24	117	230	310	1,240	441	1,270	883	1,420	443	196	168	177
25	101	155	303	955	509	1,090	860	1,300	429	197	168	176
26	87	155	295	830	461	971	830	1,200	415	201	177	174
27	85	155	286	915	437	883	1,070	1,130	394	198	174	169
28	84	215	279	1,870	431	860	963	1,060	382	195	169	168
29	83	1,040	276	4,740	------	800	852	960	370	196	167	157
30	82	540	271	3,970	------	808	772	920	353	192	162	152
31	72	------	265	4,710	------	907	------	846	------	190	175	------
TOTAL	3,368	10,035	19,425	33,551	21,318	28,806	28,553	34,368	16,906	7,599	5,440	5,243
MEAN	109	335	627	1,082	761	929	952	1,109	564	245	175	175
MAX	120	1,730	2,770	5,080	2,780	3,120	1,740	1,440	816	344	188	184
MIN	72	65	265	202	431	375	744	712	353	190	162	152
AC-FT	6,680	19,900	38,530	66,550	42,280	57,140	56,630	68,170	33,530	15,070	10,790	10,400
(+)	2,720	1,370	4,640	5,910	6,610	7,330	7,230	7,600	7,090	6,020	4,990	5,470

CAL YR 1966 TOTAL 122,555 MEAN 336 MAX 2,770 MIN 65 AC-FT 243,100
WTR YR 1967 TOTAL 214,612 MEAN 588 MAX 5,080 MIN 65 AC-FT 425,700

+ TOADTOWN CANAL DIVERSION, IN ACRE-FEET, FROM WEST BRANCH FEATHER RIVER (RECORDS FURNISHED BY PACIFIC GAS & ELECTRIC CO.).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	154	84	205	184	290	694	597	392	267	149	140	120
2	182	84	160	174	382	643	579	385	263	149	131	124
3	311	84	250	176	442	604	544	382	261	150	126	127
4	191	122	400	161	384	575	526	385	258	146	123	129
5	183	125	600	159	369	568	519	383	255	143	122	124
6	179	128	250	162	375	543	502	367	273	143	121	126
7	167	134	325	162	396	535	489	354	265	128	120	130
8	162	126	239	163	419	548	473	346	253	141	116	123
9	146	132	201	186	439	512	468	341	241	142	117	124
10	138	136	184	1,150	535	477	476	338	236	134	120	125
11	139	128	178	425	498	452	494	335	239	122	114	124
12	133	127	173	288	461	506	497	332	235	122	118	124
13	137	124	153	250	487	881	483	358	224	129	119	124
14	127	172	144	626	445	940	467	354	211	122	123	131
15	123	160	149	2,050	424	764	462	329	209	123	128	129
16	125	133	185	912	441	1,170	462	314	203	126	128	126
17	126	135	165	556	1,560	1,090	453	306	197	133	131	122
18	127	144	173	436	1,340	820	427	304	195	125	127	120
19	126	251	178	370	1,180	696	414	309	186	154	143	122
20	127	185	163	336	2,500	623	414	339	187	145	210	124
21	127	153	157	315	2,570	599	406	333	180	146	198	125
22	132	152	148	311	1,970	582	395	350	176	146	164	125
23	131	140	154	311	1,800	561	383	351	175	146	149	124
24	130	140	167	307	1,520	555	376	352	172	146	136	123
25	129	142	178	295	1,210	581	376	327	168	141	132	122
26	128	133	204	285	1,040	586	377	310	163	128	130	122
27	128	136	256	280	917	559	381	300	158	132	128	134
28	129	143	259	275	824	536	382	292	152	120	128	139
29	128	219	229	629	745	562	387	284	152	122	129	138
30	116	208	209	761	------	577	388	279	154	128	124	141
31	84	------	194	380	------	587	------	273	------	128	121	------
TOTAL	4,465	4,280	6,630	13,075	25,963	19,926	13,597	10,404	6,308	4,209	4,116	3,791
MEAN	144	143	214	422	895	643	453	336	210	136	133	126
MAX	311	251	600	2,050	2,570	1,170	597	392	273	154	210	141
MIN	84	84	144	159	290	452	376	273	152	120	114	120
AC-FT	8,860	8,490	13,150	25,930	51,500	39,520	26,970	20,640	12,510	8,350	8,160	7,520
(+)	2,980	2,420	3,490	5,140	4,410	7,430	6,820	7,010	5,330	3,580	3,720	3,490

CAL YR 1967 TOTAL 197,159 MEAN 540 MAX 5,080 MIN 84 AC-FT 391,100
WTR YR 1968 TOTAL 116,764 MEAN 319 MAX 2,570 MIN 84 AC-FT 231,600

† TOADTOWN CANAL DIVERSION, IN ACRE-FEET, FROM WEST BRANCH FEATHER RIVER (RECORDS FURNISHED BY PACIFIC GAS & ELECTRIC CO.).

11390000 BUTTE CREEK NEAR CHICO, CALIF.--CONTINUED

DISCHARGF, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	143	96	179	313	1,090	1,330	1,020	961	571	263	178	161
2	143	185	173	300	995	1,070	975	923	543	260	177	158
3	143	300	164	296	908	960	949	929	527	257	175	161
4	145	257	161	307	849	844	850	843	516	254	179	160
5	146	201	159	334	1,060	767	1,550	860	498	252	174	159
6	146	176	157	346	1,190	725	1,380	988	486	248	175	157
7	133	155	154	346	971	685	1,120	1,090	460	241	174	157
8	145	145	163	323	902	647	987	1,120	440	226	173	161
9	143	143	173	312	2,130	613	919	1,170	443	221	173	161
10	143	141	1,360	290	1,900	581	849	1,260	429	216	172	159
11	152	141	891	464	2,470	544	849	1,290	447	210	172	160
12	323	323	456	2,050	3,260	519	903	1,250	414	207	171	160
13	309	237	367	6,520	2,280	497	869	1,200	403	203	169	166
14	225	199	716	2,700	2,020	479	838	1,130	398	204	168	169
15	140	216	1,200	1,490	3,240	477	791	996	387	206	170	170
16	123	197	798	1,140	2,300	489	774	964	392	201	170	172
17	141	185	476	938	1,730	515	802	952	360	195	170	172
18	146	228	382	873	1,460	542	893	957	350	189	170	172
19	154	289	340	2,320	1,240	556	880	933	365	192	169	173
20	131	233	304	6,360	1,130	561	906	858	345	191	168	175
21	116	203	277	10,400	995	635	969	816	330	188	167	177
22	83	186	267	4,910	900	605	1,050	804	316	189	165	175
23	81	180	302	2,880	1,050	610	1,280	795	307	193	165	171
24	78	187	1,070	2,190	1,050	614	1,090	783	302	196	164	160
25	79	191	1,360	2,760	973	617	938	746	293	189	164	183
26	119	182	755	4,560	862	633	860	742	289	187	165	174
27	114	172	498	2,610	784	679	821	699	280	183	165	155
28	103	165	483	2,010	1,240	734	823	645	280	181	165	133
29	97	163	438	1,600	------	791	908	609	280	179	164	120
30	158	183	377	1,400	------	881	968	601	271	179	163	127
31	105	------	340	1,180	------	994	------	595	------	179	163	------
TOTAL	4,407	5,859	14,940	64,522	40,979	21,194	28,811	28,509	11,722	6,479	5,257	4,858
MEAN	142	195	482	2,081	1,464	684	960	920	391	209	170	162
MAX	323	323	1,360	10,400	3,260	1,330	1,550	1,290	571	263	179	183
MIN	78	96	154	290	784	477	774	595	271	179	163	120
AC-FT	8,740	11,620	29,630	128,000	81,280	42,040	57,150	56,550	23,250	12,850	10,430	9,640
(+)	2,940	3,940	5,360	6,590	5,850	7,310	7,390	7,340	6,920	5,430	4,590	4,700

CAL YR 1968 TOTAL 126,595 MEAN 346 MAX 2,570 MIN 78 AC-FT 251,100
WTR YR 1969 TOTAL 237,537 MEAN 651 MAX 10,400 MIN 78 AC-FT 471,200

+ TOADTOWN CANAL DIVERSION, IN ACRE-FEET, FROM WEST BRANCH FEATHER RIVER (RECORDS FURNISHED BY PACIFIC GAS & ELECTRIC CO.).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	139	133	426	1,260	2,570	444	310	269	191	138	125
2	125	139	133	391	1,120	1,550	438	310	269	177	137	124
3	131	122	132	365	1,020	1,150	424	310	261	174	136	126
4	137	93	132	351	932	1,100	414	320	257	167	135	133
5	140	259	132	330	878	1,010	400	325	253	161	135	139
6	136	180	132	315	824	911	397	322	261	155	134	137
7	140	166	132	310	777	865	406	318	253	155	134	136
8	150	261	141	338	739	1,190	408	318	249	155	134	135
9	158	203	146	1,290	699	1,020	402	327	269	152	132	133
10	144	178	168	1,980	668	957	401	362	281	155	131	132
11	141	165	403	1,190	646	880	412	348	281	149	130	129
12	140	158	1,710	1,250	846	816	393	334	257	152	128	129
13	138	154	1,130	3,280	1,150	772	405	329	253	150	130	130
14	143	157	473	7,860	1,020	753	420	316	265	150	132	132
15	178	157	365	3,950	851	730	406	314	265	149	130	128
16	324	158	299	4,430	943	701	393	316	253	147	130	132
17	226	155	269	4,020	1,400	679	389	324	245	147	131	130
18	180	156	249	2,700	1,040	640	379	328	229	146	132	131
19	160	155	1,510	2,170	886	617	383	330	221	143	131	133
20	153	141	1,640	2,080	809	596	372	311	205	141	130	135
21	150	131	3,520	5,010	756	579	354	309	205	143	129	135
22	148	139	1,580	4,650	711	564	353	317	198	142	124	134
23	147	137	1,570	6,950	676	551	346	318	191	141	122	136
24	144	136	2,320	9,140	648	538	340	306	191	139	122	136
25	144	136	1,460	4,310	621	530	335	302	188	138	122	133
26	143	135	1,040	3,020	603	518	341	303	180	137	125	134
27	143	135	795	4,180	590	504	348	294	184	143	125	134
28	143	134	656	2,620	705	496	338	290	202	148	126	134
29	142	133	558	2,030	------	489	330	285	257	138	126	133
30	141	133	496	1,680	------	480	318	277	205	140	126	133
31	140	------	455	1,430	------	465	------	270	------	138	126	------
TOTAL	4,756	4,645	23,879	84,046	23,818	25,221	11,489	9,743	7,097	4,663	4,023	3,971
MEAN	153	155	770	2,711	851	814	383	314	237	150	130	132
MAX	324	261	3,520	9,140	1,400	2,570	444	362	281	191	138	139
MIN	125	93	132	310	590	465	318	270	180	137	122	124
AC-FT	9,430	9,210	47,360	166,700	47,240	50,030	22,790	19,330	14,080	9,250	7,980	7,880
(+)	3,510	2,690	5,400	6,830	6,640	7,510	6,810	6,810	3,850	5,980	3,480	3,610

CAL YR 1969 TOTAL 245,611 MEAN 673 MAX 10,400 MIN 93 AC-FT 487,200
WTR YR 1970 TOTAL 207,351 MEAN 568 MAX 9,140 MIN 93 AC-FT 411,300

+ TOADTOWN CANAL DIVERSION, IN ACRE-FEET, FROM WEST BRANCH FEATHER RIVER (RECORDS FURNISHED BY PACIFIC GAS & ELECTRIC CO.).

11390500 SACRAMENTO RIVER BELOW WILKINS SLOUGH, NEAR GRIMES, CALIF.
(Formerly published as Sacramento River below Wilkins Slough)

LOCATION.--Lat 39°00'36", long 121°49'25", in NW¼NE¼ sec.2, T.13 N., R.1 E., Colusa County, on right bank 1,200 ft downstream from Wilkins Slough, 5.8 miles southeast of Grimes, and at mile 62.9 upstream from Sacramento.

DRAINAGE AREA.--12,926 sq mi (revised).

PERIOD OF RECORD.--August 1931 to September 1938 (low-water periods only), October 1938 to September 1970. Monthly discharge only for some periods, published in WSP 1315-A. Prior to October 1965, published as "below Wilkins Slough."

GAGE.--Water-stage recorder. Datum of gage is 3.00 ft below mean sea level.

AVERAGE DISCHARGE.--32 years (1938-70), 9,781 cfs (7,086,000 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 6, 7, 1966	27,100	47.80	May 1-3, 1966	6,140
1967	Dec. 11, 1966	26,400	a47.90	Oct. 2, 1966	6,700
1968	Feb. 27, 1968	28,400	48.37	June 1, 1968	5,000
1969	Jan. 15, 1969	29,000	b48.81	Oct. 10, 1968	7,550
1970	Jan. 26, 1970	29,300	50.72	Aug. 17, 1970	5,460

a Maximum gage height for year, 49.00 ft Feb. 1, 1967, backwater from Feather River and Sutter bypass.
b Maximum gage height for year, 49.53 ft Jan. 23, 1969, backwater from Feather River and Sutter bypass.

Period of record: Maximum discharge (1938-70), 29,300 cfs Jan. 26, 1970 (gage height, 50.72 ft); maximum gage height, 52.75 ft Mar. 1, 1940; minimum discharge (1931-70), 100 cfs Aug. 1, 1931 (gage height, 14.20 ft).

REMARKS.--Records good. Natural flow of stream affected by storage reservoirs, power developments, bypassing for flood control, diversions for irrigation, and return flow from irrigated areas. Water-quality records for the water years 1967-70 are published in reports of the Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8,570	8,300	11,400	18,200	19,600	12,800	11,000	6,140	6,320	8,390	9,110	9,110
2	8,390	8,300	9,920	17,300	19,500	11,900	10,900	6,140	6,400	8,390	8,840	8,390
3	8,210	8,120	9,740	15,200	22,300	11,200	11,000	6,140	6,320	8,480	8,840	7,850
4	8,210	8,030	12,000	14,700	21,800	10,600	10,600	6,320	6,400	8,570	9,110	7,590
5	8,120	8,030	13,200	18,300	25,900	9,920	10,100	6,480	6,820	8,840	9,110	7,680
6	8,120	8,030	13,700	26,300	26,700	9,650	9,380	6,910	7,250	8,930	8,840	7,680
7	8,120	8,030	13,900	27,000	26,500	10,100	8,840	7,250	7,340	8,930	8,840	7,760
8	8,210	8,120	14,000	26,400	26,000	10,200	8,390	7,340	7,340	8,930	8,930	7,680
9	8,120	8,300	14,100	25,500	24,000	10,100	7,850	7,420	7,420	9,020	8,840	7,590
10	8,120	8,390	14,200	25,000	20,100	10,600	7,680	7,590	7,340	9,020	8,930	7,590
11	8,120	8,480	14,200	24,700	17,400	11,700	7,850	7,850	7,420	9,110	8,930	7,590
12	8,120	8,390	14,400	24,000	15,900	13,800	9,110	8,570	7,340	9,110	8,840	7,420
13	8,120	8,570	14,600	23,200	14,500	13,300	9,020	8,930	7,250	9,290	8,840	7,420
14	8,120	9,290	14,600	22,400	13,700	12,200	8,840	9,020	7,000	9,650	8,840	7,420
15	8,120	11,600	14,400	21,800	13,200	11,900	7,590	8,930	7,000	9,740	8,840	7,340
16	8,210	17,400	14,200	21,300	12,700	12,000	7,080	8,750	6,660	9,740	8,930	7,250
17	8,300	19,400	14,100	21,000	12,300	12,700	7,160	8,570	6,570	9,830	8,930	7,250
18	8,300	15,600	14,100	20,700	11,600	13,300	7,760	8,390	7,160	9,920	8,930	7,250
19	8,300	19,900	14,000	20,500	11,200	13,700	8,390	8,300	7,340	10,000	8,930	7,420
20	8,390	19,500	14,000	20,200	11,100	14,200	8,750	7,940	7,500	9,920	8,480	7,420
21	8,390	16,200	14,000	19,900	12,600	14,700	8,480	7,420	8,030	10,200	8,660	7,500
22	8,390	15,000	13,900	19,600	12,100	14,600	8,210	7,160	8,030	10,100	8,660	7,340
23	8,390	14,100	13,300	19,500	11,100	14,800	7,940	7,160	8,120	10,200	8,930	7,340
24	8,390	13,600	12,800	19,500	10,900	14,000	7,760	7,080	8,210	10,300	8,840	7,340
25	8,390	14,100	13,000	19,400	11,500	13,500	7,590	7,000	8,300	9,920	8,660	7,340
26	8,300	15,400	13,800	19,300	13,700	13,600	7,590	6,740	8,390	9,470	8,480	7,340
27	8,300	15,700	14,000	19,000	14,900	12,000	7,680	6,660	8,390	9,380	8,750	7,680
28	8,300	15,900	13,700	18,000	14,600	11,900	7,160	6,570	8,300	9,380	8,840	7,160
29	8,300	15,700	14,200	17,000	------	12,200	7,000	6,660	8,390	9,470	9,020	7,160
30	8,300	14,500	18,800	16,300	------	11,700	6,480	6,480	8,390	9,560	8,930	7,080
31	8,300	------	18,800	19,400	------	11,200	------	6,480	------	9,650	9,110	------
TOTAL	256,040	369,980	429,060	640,600	467,400	380,070	253,180	228,390	222,740	291,440	274,760	225,980
MEAN	8,259	12,330	13,840	20,660	16,690	12,260	8,439	7,367	7,425	9,401	8,863	7,533
MAX	8,570	19,900	18,800	27,000	26,700	14,800	11,000	9,020	8,390	10,300	9,110	9,110
MIN	8,120	8,030	9,740	14,700	10,900	9,650	6,480	6,140	6,320	8,390	8,480	7,080
AC-FT	507,900	733,900	851,000	1,271M	927,100	753,900	502,200	453,000	441,800	578,100	545,000	448,200

CAL YR 1965 TOTAL 4,320,680 MEAN 11,840 MAX 27,100 MIN 5,890 AC-FT 8,570,000
WTR YR 1966 TOTAL 4,039,640 MEAN 11,070 MAX 27,000 MIN 6,140 AC-FT 8,013,000

M EXPRESSED IN THOUSANDS.

11390500 SACRAMENTO RIVER BELOW WILKINS SLOUGH, NEAR GRIMES, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,750	6,990	22,900	13,800	26,100	13,400	12,600	24,700	17,500	10,600	9,400	9,650
2	6,700	7,010	21,100	13,000	26,200	13,100	16,100	24,400	17,000	10,500	9,200	9,700
3	6,740	7,110	24,000	12,200	25,800	12,700	16,600	23,400	17,400	10,600	9,400	9,840
4	6,820	7,150	26,000	11,300	25,500	12,300	14,400	22,100	18,100	10,600	9,200	10,100
5	6,890	7,180	25,900	10,900	25,300	12,000	13,300	21,300	17,900	10,700	9,300	10,100
6	6,820	7,300	26,100	10,300	25,300	11,600	12,800	20,400	16,900	10,400	9,400	10,300
7	6,840	7,480	26,200	9,650	25,200	11,500	14,800	19,300	16,500	10,200	9,400	10,300
8	6,960	8,010	26,200	9,110	25,000	11,200	19,900	18,400	16,300	10,200	9,500	10,400
9	6,940	8,010	26,200	8,840	24,800	10,700	21,800	17,800	15,600	9,840	9,510	10,400
10	6,920	7,950	26,200	8,660	24,300	10,400	21,200	17,500	15,000	9,750	9,470	10,400
11	6,920	7,890	26,400	8,480	23,600	9,920	20,600	18,100	14,800	9,300	9,490	10,400
12	6,890	7,810	26,000	8,120	23,000	11,600	21,300	19,400	14,600	9,200	9,580	10,800
13	6,880	7,860	25,000	7,850	22,600	14,100	21,700	18,900	14,500	9,400	9,660	11,000
14	6,890	8,120	24,200	7,500	22,500	14,600	20,700	19,000	14,200	9,500	9,660	11,000
15	6,920	8,330	24,300	7,420	22,000	14,100	21,800	18,900	13,900	9,500	9,630	11,000
16	6,930	8,700	23,800	7,340	21,200	13,700	22,600	18,700	13,600	9,500	9,540	11,000
17	6,910	10,500	22,800	7,160	20,200	17,400	22,300	18,800	13,200	9,600	9,440	10,900
18	6,920	11,300	21,600	7,080	19,400	22,400	22,300	19,400	12,800	10,000	9,420	11,200
19	6,930	10,100	20,600	7,080	18,500	20,800	24,800	19,800	12,600	9,400	9,400	11,300
20	6,920	10,500	19,900	7,080	17,900	18,400	25,400	19,800	12,300	9,100	9,440	11,300
21	6,900	20,000	19,400	8,660	17,400	16,500	25,400	20,400	12,400	9,200	9,510	11,100
22	6,980	23,000	19,000	22,700	16,700	16,100	25,000	21,300	12,000	9,600	9,430	11,000
23	7,010	20,000	19,000	25,400	15,600	15,700	24,700	22,300	11,700	9,400	9,410	10,900
24	7,010	17,500	19,000	24,600	14,600	15,100	25,000	22,600	11,400	9,600	9,380	10,900
25	7,010	16,000	18,500	24,400	14,200	15,100	25,300	22,800	11,200	9,200	9,420	10,900
26	7,010	16,500	18,000	24,800	14,100	14,000	25,500	22,700	11,100	9,100	9,600	10,800
27	6,920	17,000	17,200	24,700	14,000	13,300	25,500	22,200	10,900	9,000	9,780	10,700
28	6,980	17,500	16,500	25,300	13,700	12,700	25,600	21,300	10,700	9,000	9,890	10,600
29	6,970	18,000	16,000	25,300	------	12,100	25,600	19,900	10,600	9,000	9,840	10,400
30	6,990	21,000	15,200	25,400	------	11,900	25,200	18,800	10,600	9,200	9,820	10,300
31	6,990	------	14,500	25,800	------	11,800	------	18,000	------	9,400	9,690	------
TOTAL	214,260	351,800	677,700	439,930	584,700	430,220	639,800	632,400	417,300	299,590	294,810	318,690
MEAN	6,912	11,730	21,860	14,190	20,880	13,880	21,330	20,400	13,910	9,664	9,510	10,620
MAX	7,010	23,000	26,400	25,800	26,200	22,400	25,600	24,700	18,100	10,700	9,890	11,300
MIN	6,700	6,990	14,500	7,080	13,700	9,920	12,600	17,500	10,600	9,000	9,200	9,650
AC-FT	425,000	697,800	1,344M	872,600	1,160M	853,300	1,269M	1,254M	827,700	594,200	584,800	632,100

CAL YR 1966 TOTAL 4,228,320 MEAN 11,580 MAX 27,000 MIN 6,140 AC-FT 8,387,000
WTR YR 1967 TOTAL 5,301,200 MEAN 14,520 MAX 26,400 MIN 6,700 AC-FT 10,510,000

M EXPRESSED IN THOUSANDS.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10,200	9,680	8,810	9,590	24,400	27,500	11,100	5,500	5,000	7,580	9,570	8,010
2	9,960	9,710	9,230	9,470	20,300	27,100	11,100	5,500	5,060	7,620	9,600	7,820
3	9,480	9,520	9,140	9,150	20,100	26,800	11,000	5,600	5,520	7,600	9,630	7,760
4	9,970	8,900	10,500	8,950	23,900	26,100	10,700	5,700	5,600	7,850	9,740	7,780
5	10,200	8,700	12,500	8,870	22,300	24,800	10,000	5,900	5,680	7,950	9,840	7,870
6	10,000	8,620	13,300	8,820	19,000	23,100	9,570	6,200	6,220	7,980	9,860	8,050
7	9,910	8,190	12,900	8,570	17,100	21,600	9,300	6,600	6,780	8,280	9,940	8,300
8	9,830	7,960	12,100	8,240	16,200	20,400	8,940	6,980	7,220	8,330	9,920	8,510
9	9,770	7,890	13,100	8,130	15,500	19,700	8,390	7,000	7,380	8,370	9,870	8,750
10	9,790	7,910	11,700	8,350	15,000	19,200	7,840	7,210	7,360	8,370	9,900	8,940
11	9,740	7,880	10,700	16,000	14,900	18,500	7,880	7,480	7,330	8,360	9,810	9,140
12	9,700	7,890	10,200	19,200	14,600	17,600	7,870	7,700	7,150	8,380	9,790	9,320
13	9,600	7,910	9,950	14,200	14,100	17,300	7,760	7,980	6,990	8,410	9,850	9,560
14	9,560	7,940	9,760	11,600	13,700	18,400	7,500	8,110	6,710	8,710	9,950	9,730
15	9,500	8,090	9,570	16,100	13,500	19,800	7,160	8,420	6,450	8,840	10,000	9,980
16	9,480	8,440	9,410	25,100	13,200	19,500	6,860	8,310	6,280	8,920	9,950	10,100
17	9,530	8,450	9,370	25,200	13,700	20,000	6,530	7,750	6,370	8,920	9,730	10,100
18	9,490	8,280	9,380	23,300	21,300	23,100	6,000	7,370	6,340	8,950	9,500	9,940
19	9,500	8,260	9,360	19,100	26,400	20,600	5,800	7,150	6,170	8,990	9,190	9,910
20	9,500	8,420	9,370	15,900	25,900	17,500	5,560	7,090	6,030	8,960	9,170	9,820
21	9,490	8,470	9,340	14,000	27,600	15,800	5,600	7,190	6,360	9,060	9,670	9,870
22	9,530	8,370	9,290	12,900	28,000	14,700	5,900	7,320	6,430	9,130	10,400	9,910
23	9,600	8,220	9,250	12,200	28,000	13,900	6,100	7,360	6,410	9,140	10,600	9,950
24	9,640	8,170	9,230	11,800	28,000	13,300	6,100	7,230	6,400	9,150	9,520	9,960
25	9,680	8,160	9,200	11,300	28,100	12,900	6,050	7,010	6,370	9,180	9,050	9,860
26	9,710	8,130	9,230	11,000	28,200	12,600	6,400	6,800	6,440	9,250	8,900	9,770
27	9,760	8,120	9,320	10,700	28,200	12,500	6,900	6,570	6,720	9,300	8,780	9,750
28	9,760	8,110	9,480	10,400	28,000	12,200	6,750	6,320	7,250	9,480	8,710	9,740
29	9,710	8,160	9,650	10,200	27,800	11,600	6,150	6,010	7,470	9,500	8,560	9,720
30	9,710	8,400	9,720	16,100	------	11,300	5,650	5,630	7,520	9,510	8,320	9,710
31	9,670	------	9,680	25,500	------	11,100	------	5,250	------	9,540	8,100	------
TOTAL	300,970	250,950	313,740	419,940	617,000	570,500	228,460	212,240	195,010	269,610	295,420	277,630
MEAN	9,709	8,365	10,120	13,550	21,280	18,400	7,615	6,846	6,500	8,697	9,530	9,254
MAX	10,200	9,710	13,300	25,500	28,200	27,500	11,100	8,420	7,520	9,540	10,600	10,100
MIN	9,480	7,880	8,810	8,130	13,200	11,100	5,560	5,250	5,000	7,580	8,100	7,760
AC-FT	597,000	497,800	622,300	833,000	1,224M	1,132M	453,200	421,000	386,800	534,800	586,000	550,700

CAL YR 1967 TOTAL 4,923,100 MEAN 13,490 MAX 26,200 MIN 7,080 AC-FT 9,765,000
WTR YR 1968 TOTAL 3,951,470 MEAN 10,800 MAX 28,200 MIN 5,000 AC-FT 7,838,000

M EXPRESSED IN THOUSANDS.

11390500 SACRAMENTO RIVER BELOW WILKINS SLOUGH, NEAR GRIMES, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10,000	8,470	8,160	16,800	25,800	26,200	18,200	12,500	15,300	11,600	8,490	10,100
2	9,700	8,290	8,250	14,200	25,600	26,600	18,500	13,100	14,900	11,400	8,530	10,300
3	9,250	7,960	8,270	12,700	25,300	26,000	18,000	13,100	14,500	11,300	8,510	10,400
4	8,600	8,050	8,210	12,400	24,900	25,500	17,200	13,200	14,200	10,400	8,550	10,300
5	8,220	8,500	8,080	12,400	24,400	25,200	15,800	13,000	14,100	9,950	8,540	10,000
6	7,900	8,430	7,970	12,500	25,400	24,900	16,000	12,800	13,900	9,820	8,540	9,570
7	7,730	8,200	7,950	12,100	26,300	24,200	19,400	12,700	13,700	9,770	8,500	8,960
8	7,570	8,060	7,960	11,500	25,900	23,400	18,900	13,200	13,600	9,670	8,560	8,700
9	7,560	8,020	8,040	10,800	25,500	22,200	16,900	13,900	13,500	9,490	8,610	8,730
10	7,550	8,010	8,300	10,100	25,900	21,100	16,000	14,500	13,500	9,310	8,630	8,790
11	7,560	7,990	15,000	9,510	26,200	20,200	15,400	15,000	13,600	9,210	8,680	8,840
12	7,670	7,980	23,700	10,300	26,200	19,300	14,800	15,400	13,700	9,110	8,700	8,870
13	8,010	8,200	19,000	23,600	27,100	18,200	14,800	15,700	13,800	9,090	8,700	8,880
14	8,590	8,700	13,600	28,200	27,400	17,400	14,700	16,000	13,700	9,000	8,700	8,980
15	8,860	8,660	19,000	28,500	26,900	16,800	14,300	16,200	13,600	8,880	8,670	9,040
16	8,770	8,820	24,200	26,700	27,200	16,300	13,900	15,900	13,400	8,800	8,770	9,160
17	8,550	8,970	25,300	25,100	27,400	15,800	13,300	14,900	13,300	8,750	8,770	9,260
18	8,350	8,800	20,000	24,100	26,700	15,800	12,300	16,800	12,900	8,750	8,770	9,350
19	8,260	9,000	14,700	23,700	26,600	15,900	12,500	17,600	12,800	8,610	8,860	9,390
20	8,210	9,930	12,200	25,900	26,600	16,000	12,600	17,900	12,900	8,600	8,870	9,420
21	8,200	9,450	11,000	27,200	26,500	16,000	11,900	17,700	12,800	8,650	8,870	9,420
22	8,120	8,900	10,100	27,800	26,400	17,300	11,500	17,400	12,800	8,630	8,900	9,410
23	8,010	8,570	9,570	27,800	25,900	17,200	11,800	17,100	12,500	8,550	8,950	9,340
24	7,970	8,360	10,500	27,700	25,800	16,100	12,900	16,900	12,300	8,460	9,000	9,220
25	7,900	8,290	20,200	27,400	26,000	15,900	14,100	16,800	12,200	8,490	9,080	9,090
26	7,840	8,370	26,800	27,200	26,200	15,800	13,700	16,700	12,100	8,390	9,190	9,000
27	7,770	8,420	26,700	27,200	25,600	15,900	12,800	16,500	11,900	8,500	9,340	8,970
28	7,730	8,310	24,300	27,400	25,400	16,000	12,500	16,300	11,900	8,610	9,470	9,000
29	7,700	8,180	23,300	27,300	------	16,500	12,300	16,100	11,800	8,530	9,710	9,000
30	7,870	8,120	25,500	27,000	------	17,000	12,300	15,900	11,700	8,450	9,880	8,990
31	8,240	------	21,600	26,500	------	17,700	------	15,800	------	8,450	9,990	------
TOTAL	254,260	254,010	477,460	651,610	731,100	598,400	439,300	476,600	396,900	285,220	275,330	278,480
MEAN	8,202	8,467	15,400	21,020	26,110	19,300	14,640	15,370	13,230	9,201	8,882	9,283
MAX	10,000	9,930	26,800	28,500	27,400	26,600	19,400	17,900	15,300	11,600	9,990	10,400
MIN	7,550	7,960	7,950	9,510	24,400	15,800	11,500	12,500	11,700	8,390	8,490	8,700
AC-FT	504,300	503,800	947,000	1,292M	1,450M	1,187M	871,400	945,300	787,300	565,700	546,100	552,400

CAL YR 1968 TOTAL 4,071,540 MEAN 11,120 MAX 28,200 MIN 5,000 AC-FT 8,076,000
WTR YR 1969 TOTAL 5,118,670 MEAN 14,020 MAX 28,500 MIN 7,550 AC-FT 10,150,000

M EXPRESSED IN THOUSANDS.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9,000	8,530	8,750	24,900	26,600	20,600	11,600	8,050	5,880	7,750	6,150	6,380
2	9,000	8,490	8,750	24,100	26,600	23,600	11,300	8,030	5,880	7,700	6,020	6,510
3	8,660	8,460	8,750	23,700	26,500	23,700	10,600	8,040	5,980	7,600	5,930	6,570
4	8,260	8,440	8,740	22,400	26,300	21,500	9,990	8,060	5,790	7,550	5,860	6,370
5	8,130	8,430	8,730	20,300	26,300	21,000	9,730	7,960	5,850	7,500	5,820	6,340
6	8,050	8,900	8,720	19,400	26,100	24,000	9,270	7,290	5,980	7,400	5,810	6,360
7	8,000	9,700	8,710	18,900	25,900	22,700	8,950	7,160	6,260	7,300	5,870	6,270
8	7,950	9,870	8,700	18,700	25,800	21,000	8,710	7,270	6,660	7,000	5,890	6,360
9	7,930	9,750	8,680	19,000	25,700	23,500	8,310	7,470	6,770	6,670	5,950	6,430
10	7,730	9,510	8,650	24,200	25,600	23,700	8,020	7,760	6,860	6,600	5,910	6,620
11	7,890	9,300	8,340	27,200	25,400	23,800	7,680	8,010	7,060	6,570	5,920	6,890
12	7,910	8,360	8,040	26,900	25,200	23,200	7,500	8,090	7,320	6,910	5,960	7,140
13	7,950	7,300	12,900	26,000	25,100	22,100	7,650	8,120	7,290	7,170	5,730	7,180
14	7,930	6,980	24,900	25,700	25,100	21,000	7,800	8,180	7,130	7,330	5,710	7,260
15	8,000	8,210	24,500	26,000	25,200	19,800	7,730	7,690	7,090	7,350	5,540	7,300
16	8,300	8,660	21,300	26,300	24,700	19,000	7,610	7,140	7,090	7,280	5,580	7,430
17	8,980	8,720	18,300	25,800	24,400	18,000	7,380	6,780	7,050	7,230	5,460	7,630
18	9,640	8,740	16,400	26,100	24,700	17,100	7,140	6,520	6,940	7,270	5,490	7,710
19	9,350	8,790	16,000	26,100	24,500	16,600	6,930	6,440	6,980	7,280	5,540	7,730
20	9,020	8,880	22,000	25,800	24,300	16,200	6,700	6,370	6,880	7,290	5,600	7,850
21	8,910	8,810	27,000	25,900	24,000	15,500	6,510	6,210	6,850	7,260	5,750	7,870
22	8,790	8,790	27,300	25,900	23,600	15,000	6,300	6,190	6,930	7,180	5,700	7,800
23	8,750	8,800	27,500	26,500	23,300	14,600	6,280	6,180	6,900	7,180	5,640	7,670
24	8,730	8,760	26,500	26,700	23,000	14,300	6,400	6,090	6,720	7,170	5,790	7,570
25	8,700	8,750	26,200	28,000	22,700	14,000	6,650	6,040	6,600	7,200	5,820	7,480
26	8,670	8,750	26,000	28,900	22,500	13,800	7,000	6,310	6,540	7,270	5,830	7,440
27	8,640	8,750	25,900	28,300	21,700	13,500	7,500	6,180	6,590	7,000	5,840	7,540
28	8,640	8,750	25,900	27,600	21,000	13,100	7,900	6,180	6,630	6,830	6,000	7,630
29	8,590	8,750	25,900	27,700	------	12,700	8,040	6,210	6,960	6,750	6,100	7,650
30	8,580	8,750	25,800	27,500	------	12,400	8,060	6,140	7,180	6,610	6,240	7,590
31	8,540	------	25,600	27,000	------	12,000	------	5,970	------	6,260	6,350	------
TOTAL	263,220	261,680	549,460	777,500	691,800	573,000	241,240	218,130	200,640	221,460	180,800	214,570
MEAN	8,491	8,723	17,720	25,080	24,710	18,480	8,041	7,036	6,688	7,144	5,832	7,152
MAX	9,640	9,870	27,500	28,900	26,600	24,000	11,600	8,180	7,320	7,750	6,350	7,870
MIN	7,730	6,980	8,040	18,700	21,000	12,000	6,280	5,970	5,790	6,260	5,460	6,270
AC-FT	522,100	519,000	1,090M	1,542M	1,372M	1,137M	478,500	432,700	398,000	439,300	358,600	425,600

CAL YR 1969 TOTAL 5,207,300 MEAN 14,270 MAX 28,500 MIN 6,980 AC-FT 10,330,000
WTR YR 1970 TOTAL 4,393,500 MEAN 12,040 MAX 28,900 MIN 5,460 AC-FT 8,715,000

M EXPRESSED IN THOUSANDS.

11390655 SOUTH FORK WILLOW CREEK NEAR FRUTO, CALIF.

LOCATION.--Lat 39°32'28", long 122°23'19", in SW¼SE¼ sec.35, T.20 N., R.5 W., Glenn County, on right bank 150 ft downstream from county road bridge and 4.5 miles southeast of Fruto.

DRAINAGE AREA.--38.9 sq mi.

PERIOD OF RECORD.--July 1963 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 375 ft (from topographic map).

AVERAGE DISCHARGE.--7 years, 4.88 cfs (3,540 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (100 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Jan. 4, 1966	2130	141	4.65	Feb. 17, 1968	0500	326	5.73	Feb. 15, 1969	0800	1,110	8.25
Feb. 1, 1966	0830	208	5.09	Feb. 19, 1968	1530	758	7.31	Feb. 24, 1969	0630	*1,600	9.29
Feb. 3, 1966	2230	*392	6.05					Feb. 27, 1969	2330	1,070	8.14
				Dec. 25, 1968	1500	125	4.61				
Jan. 21, 1967	1000	184	4.94	Jan. 13, 1969	0900	214	5.21	Jan. 9, 1970	1530	1,430	8.96
Jan. 24, 1967	0530	634	6.93	Jan. 18, 1969	2230	252	5.41	Jan. 14, 1970	0800	505	6.50
Jan. 26, 1967	1230	348	5.84	Jan. 21, 1969	1030	236	5.33	Jan. 16, 1970	0700	482	6.41
Jan. 30, 1967	1530	*1,440	8.97	Jan. 26, 1969	0300	236	5.33	Jan. 20, 1970	2130	234	5.13
Apr. 24, 1967	0600	154	4.74	Feb. 5, 1969	2400	*1,600	9.30	Jan. 23, 1970	2100	*1,980	10.06
				Feb. 11, 1969	2100	335	5.82	Jan. 27, 1970	0130	288	5.41
Jan. 29, 1968	1830	*780	7.37	Feb. 14, 1969	2400	738	7.25	Feb. 13, 1970	1000	818	7.48

No flow for long periods in each year.

Period of record: Maximum discharge, 1,980 cfs Jan. 23, 1970 (gage height, 10.06 ft), from rating curve extended above 230 cfs on basis of slope-area measurement at gage height 9.94 ft; no flow for several months in each year.

REMARKS.--Records good except those for periods of no gage-height record Dec. 1, 1969, to Jan. 7, 1970, and Feb. 23 to Apr. 1, 1970, which are poor. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	48	.60	.10					
2				0	9.2	.60	.10					
3				0	90	.50	.10					
4				17	143	.50	.10					
5				44	26	.60	.10					
6				3.3	12	.60	0					
7				.20	7.4	.40	0					
8				0	5.4	.40	0					
9				0	4.0	.40	.10					
10				0	3.4	.30	.10					
11				0	2.2	.30	.10					
12				0	1.8	.30	.10					
13				0	1.5	.30	.10					
14				0	1.4	.30	.10					
15				0	1.3	.30	.10					
16				0	1.2	.30	.10					
17				0	1.0	.20	.10					
18				0	.90	.30	.10					
19				0	1.8	.20	0					
20				0	1.8	.20	0					
21				0	1.0	.20	0					
22				0	.90	.20	0					
23				0	.80	.20	0					
24				0	.90	.20	0					
25				0	.80	.20	0					
26				0	.70	.20	0					
27				0	.60	.10	0					
28				0	.60	.10	0					
29				0	------	.10	0					
30				2.0	------	.10	0					
31		------		.50	------	.10	------		------			------
TOTAL	0	0	0	67.00	369.60	9.30	1.50	0	0	0	0	0
MEAN	0	0	0	2.16	13.2	.30	.050	0	0	0	0	0
MAX	0	0	0	44	143	.60	.10	0	0	0	0	0
MIN	0	0	0	0	.60	.10	0	0	0	0	0	0
AC-FT	0	0	0	133	733	18	3.0	0	0	0	0	0

CAL YR 1965 TOTAL 977.80 MEAN 2.68 MAX 586 MIN 0 AC-FT 1,940
WTR YR 1966 TOTAL 447.40 MEAN 1.23 MAX 143 MIN 0 AC-FT 887

11390655 SOUTH FORK WILLOW CREEK NEAR FRUTO, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SFPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	0	30	.60	.50	4.3	.20			
2			.10	0	18	.60	.30	3.9	1.8			
3			0	0	13	.60	.30	3.4	3.0			
4			.30	0	10	.50	.30	2.9	.90			
5			12	0	7.7	.40	.30	2.5	.50			
6			1.1	0	5.7	.40	.50	2.2	.40			
7			.20	0	5.1	.40	6.9	1.9	.30			
8			0	0	4.3	.40	1.4	1.8	.20			
9			0	0	3.9	.40	.70	1.7	.20			
10			0	0	3.4	.40	2.7	1.4	.10			
11			0	0	2.9	.50	2.2	1.3	.10			
12			0	0	2.5	.90	1.0	1.2	.10			
13			0	0	2.4	1.3	.60	.90	.50			
14			0	0	1.9	.70	.40	.70	.60			
15			0	0	1.7	.60	.40	.70	.20			
16			0	0	1.4	11	.30	.60	0			
17			0	0	1.4	3.0	.40	.60	0			
18			0	0	1.3	1.4	.40	.50	0			
19			0	0	1.0	1.0	.40	.50	0			
20			0	0	.90	.90	.50	.40	0			
21			0	59	.90	1.0	30	.40	0			
22			0	14	.90	.80	17	.30	0			
23			0	1.0	.90	.60	22	.30	0			
24			0	203	.80	.50	64	.20	0			
25			0	28	.90	.40	22	.10	0			
26			0	97	.90	.40	13	.10	0			
27			0	59	.70	.30	9.8	.10	0			
28			0	77	.70	.30	7.7	.10	0			
29			0	78	------	.30	6.2	.10	0			
30			0	265	------	.40	4.9	.10	0			
31		------	0	84	------	.50	------	0	------			------
TOTAL	0	0	13.70	965.0	125.20	31.50	217.10	35.20	9.10	0	0	0
MEAN	0	0	.44	31.1	4.47	1.02	7.24	1.14	.30	0	0	0
MAX	0	0	12	265	30	11	64	4.3	3.0	0	0	0
MIN	0	0	0	0	.70	.30	.30	0	0	0	0	0
AC-FT	0	0	27	1,910	248	62	431	70	18	0	0	0

CAL YR 1966 TOTAL 461.10 MEAN 1.26 MAX 143 MIN 0 AC-FT 915
WTR YR 1967 TOTAL 1,396.80 MEAN 3.83 MAX 265 MIN 0 AC-FT 2,770

DISCHARGF, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	.56	3.0	.64	.01				
2				0	33	2.5	.56	.01				
3				0	6.6	2.1	.48	.01				
4				0	1.8	1.8	.48	0				
5				0	.64	1.8	.48	0				
6				0	.18	1.7	.41	0				
7				0	.01	1.7	.34	0				
8				0	0	2.2	.34	0				
9				0	0	1.8	.34	0				
10				0	0	1.3	.34	0				
11				0	0	1.2	.34	0				
12				0	0	1.4	.28	0				
13				0	0	2.2	.23	0				
14				0	0	1.4	.28	0				
15				1.5	0	1.2	.28	0				
16				0	18	1.7	.23	0				
17				0	133	1.9	.18	0				
18				0	16	1.2	.18	0				
19				0	221	.82	.23	0				
20				0	70	.73	.18	0				
21				0	30	.73	.14	0				
22				0	16	.73	.10	0				
23				0	11	.73	.14	0				
24				0	8.3	.64	.14	0				
25				0	6.4	.64	.10	0				
26				0	5.4	.56	.04	0				
27				0	4.4	.56	.03	0				
28				0	3.6	.48	.02	0				
29				233	3.2	.48	.02	0				
30				46	------	.48	.01	0				
31		------		3.8	------	.48	------	0	------			------
TOTAL	0	0	0	284.3	589.09	40.16	7.56	.03	0	0	0	0
MEAN	0	0	0	9.17	20.3	1.30	.25	.001	0	0	0	0
MAX	0	0	0	233	221	3.0	.64	.01	0	0	0	0
MIN	0	0	0	0	0	.48	.01	0	0	0	0	0
AC-FT	0	0	0	564	1,170	80	15	.06	0	0	0	0

CAL YR 1967 TOTAL 1,383.10 MEAN 3.79 MAX 265 MIN 0 AC-FT 2,740
WTR YR 1968 TOTAL 921.14 MFAN 2.52 MAX 233 MIN 0 AC-FT 1,830

11390655 SOUTH FORK WILLOW CREEK NEAR FRUTO, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	0	6.0	107	8.6	2.4	.10			
2			0	0	5.0	90	9.0	2.2	.10			
3			0	0	4.2	69	8.6	2.0	.08			
4			0	0	4.4	54	7.9	1.8	.08			
5			0	0	313	46	9.0	1.6	.08			
6			0	0	272	40	9.6	1.4	.05			
7			0	0	52	36	7.6	1.3	.05			
8			0	0	35	32	6.9	1.2	.08			
9			0	0	38	30	6.6	1.1	.14			
10			0	0	28	30	6.0	1.1	.23			
11			0	0	119	24	5.6	1.1	.28			
12			0	26	85	28	5.4	1.0	.14			
13			0	108	47	26	5.2	1.0	.08			
14			0	18	175	24	5.4	.91	.05			
15			0	5.2	379	18	5.0	.82	.04			
16			0	2.5	100	16	4.6	.82	.02			
17			0	1.4	71	18	4.6	.73	.01			
18			0	33	63	15	4.4	.73	.01			
19			0	99	47	14	4.2	.73	0			
20			0	69	38	20	4.0	.82	0			
21			0	106	33	50	3.9	.73	0			
22			0	33	30	20	3.9	.73	0			
23			0	16	53	14	4.0	.73	0			
24			31	11	324	13	3.5	.64	0			
25			54	12	80	12	3.2	.64	0			
26			11	71	58	12	3.2	.56	0			
27			.91	20	167	11	3.0	.48	0			
28			3.2	14	307	11	2.8	.41	0			
29			1.9	10	------	10	2.5	.28	0			
30			.28	11	------	10	2.5	.18	0			
31		------	.03	7.6	------	9.6	------	.14	------			------
TOTAL	0	0	102.32	673.7	2,933.6	909.6	160.7	30.28	1.62	0	0	0
MEAN	0	0	3.30	21.7	105	29.3	5.36	.98	.054	0	0	0
MAX	0	0	54	108	379	107	9.6	2.4	.28	0	0	0
MIN	0	0	0	0	4.2	9.6	2.5	.14	0	0	0	0
AC-FT	0	0	203	1,340	5,820	1,800	319	60	3.2	0	0	0

CAL YR 1968 TOTAL 1,023.46 MEAN 2.80 MAX 233 MIN 0 AC-FT 2,030
WTR YR 1969 TOTAL 4,811.82 MEAN 13.2 MAX 379 MIN 0 AC-FT 9,540

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	0	22	11	4.6	1.3	.23			
2			0	0	20	11	4.6	1.2	.28			
3			0	0	18	10	4.4	1.1	.18			
4			0	0	17	132	4.2	1.1	.14			
5			0	0	15	70	4.2	1.1	.10			
6			0	0	14	35	4.2	1.0	.08			
7			0	0	12	19	3.7	1.0	.14			
8			0	0	12	21	3.5	1.0	.28			
9			0	416	11	29	3.5	1.0	.41			
10			0	48	10	31	3.3	1.0	.18			
11			0	12	11	25	2.8	.91	.18			
12			0	7.2	15	22	2.8	.91	.08			
13			0	11	243	14	3.2	.91	.08			
14			0	235	53	12	3.3	1.0	.23			
15			0	72	33	11	3.2	1.0	.14			
16			0	220	32	10	3.2	1.0	.08			
17			0	44	29	9.0	3.2	1.0	.04			
18			0	24	24	8.5	2.8	.91	.02			
19			25	20	21	8.0	2.7	1.0	.02			
20			15	46	20	7.8	2.4	1.0	.01			
21			10	113	18	7.6	2.4	1.1	0			
22			6.2	49	17	7.4	2.2	1.0	0			
23			9.5	432	16	7.2	2.0	1.0	0			
24			12	223	16	7.0	2.0	.91	0			
25			5.6	70	15	6.6	2.0	.82	0			
26			2.0	55	14	6.3	2.0	.82	0			
27			1.1	117	13	5.9	1.6	.82	0			
28			.50	44	12	5.4	1.5	.73	1.1			
29			.10	37	------	5.0	1.4	.56	.48			
30			0	31	------	4.7	1.4	.41	.04			
31		------	0	26	------	4.6	------	.28	------			------
TOTAL	0	0	87.00	2,352.2	753	564.0	88.3	28.89	4.52	0	0	0
MEAN	0	0	2.81	75.9	26.9	18.2	2.94	.93	.15	0	0	0
MAX	0	0	25	432	243	132	4.6	1.3	1.1	0	0	0
MIN	0	0	0	0	10	4.6	1.4	.28	0	0	0	0
AC-FT	0	0	173	4,670	1,490	1,120	175	57	9.0	0	0	0

CAL YR 1969 TOTAL 4,796.50 MEAN 13.1 MAX 379 MIN 0 AC-FT 9,510
WTR YR 1970 TOTAL 3,877.91 MEAN 10.6 MAX 432 MIN 0 AC-FT 7,690

11390660 WALKER CREEK AT ARTOIS, CALIF.

LOCATION.--Lat 39°37'32", long 122°11'45", in SW¼SW¼ sec.34, T.21 N., R.3 W., Glenn County, on left bank 500 ft upstream from county road bridge and 0.3 mile north of Artois.

DRAINAGE AREA.--60.4 sq mi.

PERIOD OF RECORD.--July 1965 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 156.4 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--5 years, 23.0 cfs (16,660 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (600 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Nov. 18, 1965	0200	780	6.72	Feb. 19, 1968	2045	1,350	7.76	Feb. 28, 1969	0500	1,940	8.60
Feb. 1, 1966	1615	664	6.46								
Feb. 4, 1966	0415	*1,580	8.12	Dec. 24, 1968	1615	805	6.77	Dec. 24, 1969	0330	700	6.56
				Jan. 13, 1969	0400	1,900	8.55	Jan. 9, 1970	2030	*3,520	10.18
Dec. 2, 1966	2315	1,700	8.28	Jan. 19, 1969	1700	900	6.96	Jan. 14, 1970	1200	1,830	8.46
Dec. 5, 1966	0600	990	7.14	Jan. 21, 1969	1500	940	7.04	Jan. 16, 1970	0500	1,040	7.24
Jan. 24, 1967	1115	2,330	9.06	Jan. 26, 1969	0915	604	6.31	Jan. 21, 1970	0430	855	6.87
Jan. 26, 1967	1700	1,040	7.25	Feb. 5, 1969	1115	616	6.34	Jan. 24, 1970	0315	2,920	9.65
Jan. 30, 1967	2015	*2,470	9.21	Feb. 6, 1969	0400	2,110	8.81	Jan. 27, 1970	0800	740	6.64
				Feb. 12, 1969	0145	*2,490	9.23	Feb. 13, 1970	1645	940	7.04
Jan. 29, 1968	2345	*1,720	8.32	Feb. 15, 1969	0330	2,040	8.72	Feb. 14, 1970	0030	805	6.77
Feb. 17, 1968	1015	1,170	7.46	Feb. 24, 1969	1145	1,230	7.57	Mar. 8, 1970	0645	870	6.90

No flow for many days in each year.

Period of record: Maximum discharge, 3,520 cfs Jan. 9, 1970 (gage height, 10.18 ft), from rating curve extended above 1,500 cfs; no flow at times in each year.

REMARKS.--Records good. No gage-height record Apr. 3 to May 2, 1968. Several small storage ponds above station for diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	9.0	1.7	1.1	145	9.3	6.6	1.3	6.9	1.6	5.0	8.9
2	6.2	6.8	1.4	.80	118	7.6	5.4	7.0	4.0	1.5	4.4	8.5
3	10	4.6	1.2	.50	93	6.3	4.0	6.0	7.9	3.0	2.6	4.9
4	12	7.1	1.0	1.0	624	5.2	3.4	5.2	5.1	3.0	4.7	2.2
5	8.9	6.9	.90	154	147	5.0	7.4	11	3.3	1.1	6.6	1.8
6	13	4.0	.90	92	73	4.7	12	9.5	6.9	.20	5.5	4.7
7	11	2.8	.80	38	45	4.8	11	8.4	5.3	0	4.9	5.7
8	7.2	2.0	.80	22	28	4.5	12	6.6	5.9	1.6	4.4	7.2
9	4.1	4.2	.80	12	19	4.2	9.5	5.2	3.0	4.1	2.9	5.9
10	3.9	4.3	.70	6.6	14	3.9	9.3	6.3	1.5	8.0	1.1	8.8
11	6.2	2.2	.90	4.1	11	3.4	11	8.1	.70	4.3	1.6	11
12	4.6	1.9	1.5	2.7	8.7	3.3	7.5	3.9	.20	3.4	3.1	8.6
13	3.5	3.8	1.6	2.0	7.3	3.2	11	2.3	0	7.4	2.9	7.7
14	1.9	53	1.9	1.4	6.7	2.8	11	1.7	0	5.9	11	5.7
15	9.3	77	1.4	1.3	6.0	2.8	11	2.3	1.3	4.9	7.3	6.5
16	10	75	1.1	1.0	5.4	2.6	16	7.3	1.3	4.2	5.5	3.5
17	8.8	47	.70	.80	5.1	2.3	15	9.5	1.1	2.4	7.2	3.6
18	4.8	264	.20	.60	4.6	2.1	7.5	7.3	2.5	2.0	6.6	3.2
19	4.0	92	.40	.50	6.0	2.0	6.0	7.4	1.9	1.8	9.1	2.4
20	3.0	49	.40	.40	9.1	1.8	7.7	5.0	.80	1.6	9.2	1.7
21	14	29	.20	.40	7.5	1.6	5.4	4.4	.40	1.5	9.1	1.7
22	11	17	.20	.40	6.4	1.5	3.6	3.6	2.5	1.4	5.8	3.8
23	5.8	12	.20	.40	7.1	.70	5.1	2.8	2.6	.20	8.2	4.3
24	3.0	9.3	.10	.40	8.9	.80	9.6	4.5	3.3	1.6	3.6	9.5
25	1.6	7.9	0	.40	8.2	2.2	7.7	3.9	1.9	2.0	4.3	10
26	1.1	6.7	.20	.40	38	1.6	8.2	2.3	1.5	2.3	4.9	8.1
27	.80	4.7	.10	.50	26	2.4	7.4	2.0	2.4	2.6	7.8	7.6
28	2.6	3.3	.30	.40	12	3.8	4.0	3.7	3.4	2.9	13	5.0
29	5.3	2.6	.90	1.3	------	7.7	4.1	3.4	1.4	6.9	10	4.2
30	5.6	2.2	1.1	119	------	4.1	2.7	8.4	2.4	8.7	15	5.7
31	6.8	------	1.5	65	------	4.1	------	7.7	------	4.7	7.9	------
TOTAL	196.60	811.3	25.10	531.40	1,490.0	112.30	242.1	168.0	81.40	96.80	195.2	172.4
MEAN	6.34	27.0	.81	17.1	53.2	3.62	8.07	5.42	2.71	3.12	6.30	5.75
MAX	14	238	1.9	152	624	9.3	16	11	7.9	8.7	15	11
MIN	.80	1.9	0	.40	4.6	.70	2.7	1.3	0	0	1.1	1.7
AC-FT	390	1,610	50	1,050	2,960	223	480	333	161	192	387	342

WTR YR 1966 TOTAL 3,910.60 MEAN 11.3 MAX 624 MIN 0 AC-FT 8,180

11390660 WALKER CREEK AT ARTOIS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	1.6	17	1.6	99	1.9	4.3	3.1	8.2	.97	4.7	7.9
2	6.8	2.4	137	1.4	58	1.6	2.3	2.4	24	2.3	4.9	12
3	6.1	3.2	375	1.4	38	1.5	1.6	1.9	33	2.4	3.1	4.9
4	6.6	2.1	94	1.3	27	1.4	1.1	1.8	18	7.0	5.4	2.8
5	8.9	1.2	319	1.3	22	1.2	.90	1.5	8.4	9.4	8.8	4.4
6	7.1	.80	128	1.1	17	1.3	1.6	1.2	13	10	8.4	4.8
7	7.1	.60	62	.90	14	1.2	2.2	1.2	13	4.3	6.5	4.2
8	4.2	2.0	30	.80	12	1.0	2.5	1.7	13	10	5.5	2.7
9	4.7	1.1	18	.80	11	1.0	2.1	2.4	10	12	6.9	5.0
10	6.2	.60	18	.70	9.7	.80	1.7	4.1	5.2	15	6.5	9.3
11	5.6	.30	25	.50	8.4	1.5	1.6	2.2	3.1	8.0	2.5	7.5
12	6.7	.10	14	.70	7.3	2.2	1.3	1.4	3.9	5.4	2.4	4.7
13	3.7	0	11	.70	6.8	2.7	1.0	7.2	5.5	3.9	3.5	7.5
14	3.0	0	24	.50	6.1	2.8	.80	8.5	3.8	2.8	2.9	4.9
15	5.2	0	18	.40	5.5	2.3	.60	3.6	2.3	3.4	4.8	6.7
16	6.6	.40	11	.30	5.0	6.2	.50	2.7	2.2	3.3	2.8	12
17	4.5	.30	8.6	.20	4.6	9.7	.30	6.1	3.4	7.0	1.7	16
18	4.8	.10	7.3	0	4.2	4.4	.50	6.0	5.7	4.4	2.7	8.3
19	3.9	1.9	6.1	0	3.7	2.8	.50	6.3	5.4	2.6	5.9	9.3
20	2.5	122	5.4	1.2	3.2	2.5	.40	6.1	6.0	4.2	8.6	7.2
21	1.9	68	4.8	72	2.9	2.1	.50	3.9	8.2	8.6	8.6	5.6
22	1.2	19	4.2	107	2.7	1.7	.70	7.4	4.3	11	12	7.4
23	.60	9.8	3.7	28	2.5	1.6	1.0	12	2.7	7.3	5.4	11
24	.30	5.9	3.2	617	2.4	1.4	38	7.9	1.5	7.5	5.0	9.9
25	.10	3.9	3.0	154	3.2	1.2	43	2.4	4.9	4.3	3.8	8.8
26	0	2.8	2.7	241	2.7	1.7	22	3.9	3.5	3.3	5.5	6.6
27	0	2.2	2.4	312	2.6	2.9	13	3.9	9.3	3.4	11	4.8
28	3.9	3.0	2.3	294	2.1	3.2	8.1	3.0	4.1	3.0	9.8	3.6
29	3.4	26	1.9	290	------	6.4	5.6	4.4	2.7	6.1	5.7	3.1
30	2.2	34	1.8	506	------	10	4.1	4.3	1.3	10	3.5	4.2
31	1.7	------	1.7	299	------	9.7	------	3.1	------	5.4	8.5	------
TOTAL	127.10	315.30	1,360.1	2,935.80	383.6	91.90	163.80	127.6	229.6	188.27	177.3	207.1
MEAN	4.10	10.5	43.9	94.7	13.7	2.96	5.46	4.12	7.65	6.07	5.72	6.90
MAX	8.9	122	375	617	99	10	43	12	33	15	12	16
MIN	0	0	1.7	0	2.1	.80	.30	1.2	1.3	.97	1.7	2.7
AC-FT	252	625	2,700	5,820	761	182	325	253	455	373	352	411

CAL YR 1966 TOTAL 4,892.10 MEAN 13.4 MAX 624 MIN 0 AC-FT 9,700
WTR YR 1967 TOTAL 6,307.47 MEAN 17.3 MAX 617 MIN 0 AC-FT 12,510

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	1.4	.12	0	39	7.7	1.0	12	.09	11	7.6	3.3
2	3.3	1.1	.07	0	196	6.6	2.8	15	.06	7.0	8.6	1.3
3	9.0	3.1	1.3	0	95	5.7	4.3	7.9	.12	4.9	6.4	.54
4	17	3.1	4.7	0	44	4.8	4.0	5.5	.30	6.5	6.6	3.4
5	7.9	9.7	5.5	0	28	4.2	5.4	3.9	.30	3.8	6.9	15
6	3.4	13	3.2	0	20	3.9	6.8	6.8	2.6	5.0	4.9	12
7	2.2	22	1.8	0	15	3.6	8.6	11	6.4	2.5	5.3	9.0
8	2.4	13	1.1	0	12	4.1	10	10	14	.80	4.3	8.9
9	3.0	12	.72	0	9.1	4.0	12	8.3	11	.62	2.1	7.7
10	6.4	12	.47	0	7.4	3.4	14	11	8.0	2.5	1.8	4.6
11	2.9	9.0	.33	0	6.3	2.7	12	17	3.3	2.5	2.0	2.1
12	3.3	4.7	.19	0	5.3	2.9	10	15	.92	2.2	4.7	1.3
13	8.2	7.0	.15	0	5.0	4.3	8.8	19	.29	3.6	2.7	.93
14	6.6	10	.05	.27	7.6	4.7	7.6	23	5.4	6.7	.98	.69
15	5.6	6.3	.02	62	8.0	3.5	6.4	18	7.1	8.5	6.4	.80
16	5.0	3.8	0	37	61	3.4	6.6	12	4.3	6.7	10	4.5
17	5.0	3.6	0	14	572	4.1	8.0	10	3.6	4.4	12	6.5
18	7.9	6.5	0	7.0	140	3.9	9.2	4.9	4.2	8.6	10	3.5
19	6.5	7.8	0	3.8	365	2.6	10	8.3	6.5	4.9	8.3	8.9
20	4.2	6.2	0	2.2	357	2.0	8.6	5.9	5.3	1.7	6.0	14
21	2.9	6.1	0	1.4	122	1.6	7.6	7.7	3.4	1.5	15	11
22	3.1	2.6	0	.96	67	1.4	6.6	6.9	4.2	1.1	37	6.7
23	7.6	1.2	0	.59	46	1.4	5.8	6.5	3.8	1.3	11	5.1
24	8.2	.61	0	.38	34	1.4	5.0	7.0	5.3	1.7	5.0	1.9
25	5.1	.30	0	.28	26	1.2	4.5	7.0	8.4	5.3	2.7	1.5
26	4.7	.13	0	.21	19	1.0	4.1	5.6	2.5	4.1	1.6	2.0
27	3.4	.06	0	.14	14	.84	5.3	9.0	1.4	3.6	1.1	7.2
28	1.6	.04	0	.11	11	3.3	6.6	3.5	1.5	4.9	.34	5.4
29	2.1	.07	0	200	8.9	6.2	8.1	1.2	1.5	3.2	.31	7.9
30	1.8	.08	0	448	------	3.6	10	.44	5.6	3.4	.24	5.3
31	2.0	------	0	84	------	1.4	------	.18	------	5.7	1.3	------
TOTAL	157.7	166.49	19.72	862.34	2,340.6	105.44	219.7	279.52	121.38	130.22	193.17	162.96
MEAN	5.09	5.55	.64	27.8	80.7	3.40	7.32	9.02	4.05	4.20	6.23	5.43
MAX	17	22	5.5	448	572	7.7	14	23	14	11	37	15
MIN	1.6	.04	0	0	5.0	.84	1.0	.18	.06	.62	.24	.54
AC-FT	313	330	39	1,710	4,640	209	436	554	241	258	383	323

CAL YR 1967 TOTAL 4,848.88 MEAN 13.3 MAX 617 MIN 0 AC-FT 9,620
WTR YR 1968 TOTAL 4,759.24 MEAN 13.0 MAX 572 MIN 0 AC-FT 9,440

11390660 WALKER CREEK AT ARTOIS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FFET PER SECOND, WATER YEAR OCTOBER 1968 TO SFPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	1.1	.01	19	26	253	7.2	6.5	6.4	13	7.7	7.7
2	5.8	1.1	0	14	21	79	4.9	5.1	9.9	8.4	10	18
3	4.0	1.5	0	11	17	85	4.1	6.5	16	8.8	8.6	15
4	14	2.4	0	9.2	15	44	3.7	9.5	10	5.9	7.7	5.4
5	8.4	1.3	0	7.7	278	32	3.7	8.4	9.6	1.2	5.8	2.4
6	4.3	.77	0	6.7	938	26	4.0	3.3	9.9	1.6	11	1.8
7	8.9	.49	0	5.8	163	20	3.9	4.1	13	1.7	11	6.3
8	3.0	.35	0	4.9	72	16	3.2	6.9	12	5.2	8.1	6.5
9	1.7	.24	0	4.0	71	14	2.8	9.6	16	4.1	6.9	8.1
10	1.1	.20	.03	3.3	79	12	2.5	9.1	11	3.9	5.0	4.3
11	1.1	.11	.12	3.3	423	10	2.2	12	9.1	3.8	5.0	3.6
12	2.5	.06	.29	111	909	8.8	2.0	14	9.3	12	2.9	12
13	9.1	.02	.60	1,090	144	8.3	1.6	6.4	11	6.3	5.9	16
14	5.1	.04	4.8	328	150	7.6	1.4	5.8	14	6.5	8.0	5.1
15	6.6	1.0	18	137	1,190	6.9	1.5	7.1	11	5.5	13	6.1
16	3.9	3.2	27	46	250	6.3	4.0	3.7	6.6	1.0	9.6	14
17	7.5	2.0	16	35	84	7.1	5.3	6.0	7.8	3.2	4.2	17
18	3.1	2.1	8.2	30	163	9.1	3.0	11	5.2	6.0	4.4	9.6
19	1.3	2.3	5.0	524	121	7.4	2.9	5.9	9.3	4.5	5.6	2.2
20	1.1	2.2	3.5	472	69	6.8	4.3	7.0	9.9	2.0	13	.62
21	.85	1.3	2.5	558	44	82	2.5	11	5.2	2.7	6.0	5.5
22	.52	.81	1.9	314	33	44	2.5	7.5	7.6	4.4	2.5	5.3
23	.29	.58	2.6	100	118	18	4.2	7.8	4.8	4.6	2.4	6.8
24	1.1	.42	306	40	453	11	8.6	6.9	2.6	16	3.8	4.0
25	1.4	.31	270	47	169	7.5	15	9.6	4.8	7.1	2.8	6.0
26	.98	.24	139	349	57	6.0	20	10	7.1	8.1	6.2	8.5
27	2.8	.18	54	137	42	5.6	15	10	7.1	8.8	3.5	7.9
28	3.6	.10	73	48	1,020	8.3	9.5	6.6	6.0	9.0	2.2	8.8
29	2.5	.06	83	33	------	9.3	5.0	4.1	9.3	5.6	9.6	11
30	2.5	.05	41	40	------	8.8	8.2	6.6	9.9	2.8	8.2	16
31	2.2	------	26	35	------	7.3	------	4.8	------	3.5	8.1	------
TOTAL	116.64	26.53	1,082.55	4,562.9	7,119	867.1	158.7	232.8	271.4	177.2	208.7	241.52
MFAN	3.76	.88	34.9	147	254	28.0	5.29	7.51	9.05	5.72	6.73	8.05
MAX	14	3.2	306	1,090	1,190	253	20	14	16	16	13	18
MIN	.29	.02	0	3.3	15	5.6	1.4	3.3	2.6	1.0	2.2	.62
AC-FT	231	53	2,150	9,050	14,120	1,720	315	462	538	351	414	479

CAL YR 1968 TOTAL 5,641.05 MEAN 15.4 MAX 572 MIN 0 AC-FT 11,190
WTR YR 1969 TOTAL 15,065.04 MEAN 41.3 MAX 1,190 MIN 0 AC-FT 29,880

DISCHARGE, IN CUBIC FEET PER SECONO, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	3.5	0	5.6	22	5.2	5.9	9.0	5.2	11	4.0	14
2	8.1	2.1	0	4.2	17	4.8	6.4	6.8	9.2	5.0	5.3	6.0
3	6.0	1.8	0	3.4	14	4.3	6.8	7.5	5.6	3.1	6.5	4.4
4	4.4	1.5	0	3.0	13	5.7	11	7.7	7.5	3.2	12	5.7
5	2.6	1.7	0	2.5	11	67	15	12	4.4	4.2	8.9	7.8
6	1.6	5.8	0	2.1	9.9	24	21	17	1.7	6.4	6.0	7.1
7	3.4	4.2	0	1.9	8.8	13	18	19	2.3	4.4	6.1	8.4
8	2.9	2.6	0	2.3	8.0	362	16	12	2.2	6.3	4.1	5.5
9	4.2	1.6	0	1,240	7.3	69	18	9.1	7.5	11	6.1	3.4
10	5.0	.97	0	527	6.8	86	13	7.9	11	7.5	2.5	3.0
11	6.8	.49	0	97	6.4	41	13	7.1	9.8	8.9	9.3	2.3
12	5.8	.24	0	121	6.4	24	11	4.7	9.0	5.4	6.3	4.6
13	8.1	.61	6.0	91	270	17	11	4.9	6.5	2.2	5.8	5.1
14	8.0	.33	5.3	887	276	14	13	4.8	13	2.5	12	6.8
15	8.9	.19	2.3	228	56	11	16	3.1	16	1.6	13	11
16	21	.12	1.4	734	33	8.6	19	7.4	15	1.2	4.7	14
17	7.6	.05	.87	174	38	7.0	12	4.4	7.6	3.7	4.2	13
18	3.5	0	.71	79	27	6.0	11	5.0	3.8	5.9	3.7	9.0
19	1.9	0	36	61	17	5.4	12	12	3.3	8.0	3.0	7.6
20	1.4	0	194	77	13	4.9	12	13	2.0	5.7	3.8	6.9
21	1.7	0	154	461	9.9	4.7	13	9.8	2.6	5.8	4.8	7.5
22	1.7	0	70	220	8.3	4.5	15	11	3.9	5.0	4.4	11
23	1.6	0	99	373	7.3	4.3	14	7.4	6.8	7.0	7.6	7.3
24	1.6	0	446	1,100	6.6	4.0	9.8	10	7.7	6.2	6.7	7.7
25	2.1	0	105	141	6.2	4.9	9.4	7.3	9.5	3.4	4.2	4.7
26	1.6	0	50	64	5.7	7.9	8.2	4.1	7.8	9.4	2.8	2.7
27	1.0	0	32	317	5.2	8.2	12	3.2	8.4	9.5	5.3	3.4
28	.59	0	21	85	5.1	5.2	8.5	5.7	9.3	4.8	3.1	4.6
29	.28	0	14	45	------	5.4	7.5	2.6	17	3.2	3.2	12
30	.20	0	9.8	34	------	6.9	9.9	4.0	12	4.9	6.1	15
31	2.0	------	7.3	26	------	6.3	------	2.8	------	6.8	7.4	------
TOTAL	139.57	27.80	1,254.68	7,207.0	914.9	842.2	368.4	242.3	227.6	173.2	182.9	221.5
MFAN	4.50	.93	40.5	232	32.7	27.2	12.3	7.82	7.59	5.59	5.90	7.38
MAX	21	5.8	446	1,240	276	362	21	19	17	11	13	15
MIN	.20	0	0	1.9	5.1	4.0	5.9	2.6	1.7	1.2	2.5	2.3
AC-FT	277	55	2,490	14,300	1,810	1,670	731	481	451	344	363	439

CAL YR 1969 TOTAL 15,261.37 MEAN 41.8 MAX 1,190 MIN 0 AC-FT 30,270
WTR YR 1970 TOTAL 11,802.05 MEAN 32.3 MAX 1,240 MIN 0 AC-FT 23,410

11390672 STONE CORRAL CREEK NEAR SITES, CALIF.

LOCATION.--Lat 39°17'18", long 122°18'00", in NW¼NW¼ sec.34, T.17 N., R.4 W., Colusa County, on left bank at road bridge, 2.4 miles southeast of Sites.

DRAINAGE AREA.--38.2 sq mi.

PERIOD OF RECORD.--March 1958 to September 1964, October 1965 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 180 ft (from topographic map).

AVERAGE DISCHARGE.--11 years, 5.98 cfs (4,330 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 4, 1966	494	8.43	Long periods	0
1967	Jan. 30, 1967	2,440	14.11	do.	0
1968	Jan. 29, 1968	2,640	14.52	do.	0
1969	Mar. 9, 1969	2,230	13.53	do.	0
1970	Jan. 23, 1970	2,500	14.10	do.	0

Period of record: Maximum discharge, 2,640 cfs Jan. 29, 1968 (gage height, 14.52 ft), from rating curve extended above 1,200 cfs on basis of slope-conveyance study at gage height 13.0 ft; no flow for several months in each year.

Flood of Apr. 2, 1958, reached a stage of 14.93 ft (discharge, 2,500 cfs); flood of Dec. 22, 1964, reached a stage of 13.0 ft, from floodmarks (discharge, 1,940 cfs, from slope-conveyance study).

REMARKS.--No gage-height record Dec. 6, 1969, to Jan. 12, 1970. No regulation or diversion above station.

COOPERATION.--Records furnished by Bureau of Reclamation and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	0	.70	22	1.4	.60	0				
2		0	0	.50	5.7	1.3	.60	0				
3		0	0	.50	55	1.2	.60	0				
4		0	0	157	132	1.1	.50	0				
5		0	0	113	18	1.1	.60	0				
6		0	0	18	9.5	1.2	.60	0				
7		0	0	8.4	6.8	1.2	.60	0				
8		0	0	5.1	5.1	1.1	.50	0				
9		0	0	3.3	4.0	1.1	.50	0				
10		0	0	2.3	3.2	1.0	.50	.10				
11		0	.10	1.8	2.7	1.0	.50	0				
12		0	.10	1.5	2.4	.90	.50	0				
13		.20	.10	1.3	2.2	.90	.40	0				
14		.10	.10	1.2	2.1	.80	.30	0				
15		1.3	0	1.0	2.1	.70	.40	0				
16		0	0	.80	1.8	.70	.40	0				
17		2.5	.10	.70	1.7	.70	.40	0				
18		1.9	.10	.70	1.7	.70	.40	0				
19		.40	.10	.70	5.5	.70	.20	0				
20		.10	.10	.60	4.4	.70	.20	0				
21		0	.10	.60	2.4	.70	.10	0				
22		0	.10	.50	2.2	.60	.10	0				
23		0	.10	.50	2.8	.60	.10	0				
24		0	.30	.40	2.5	.60	0	0				
25		0	.10	.40	2.2	.60	0	0				
26		0	.10	.40	2.0	.60	0	0				
27		0	.10	.40	1.7	.60	0	0				
28		0	5.9	.30	1.5	.60	0	0				
29		0	13	1.2	------	.60	0	0				
30		0	2.1	7.7	------	.60	0	0				
31		------	1.0	2.3	------	.60	------	0	------			------
TOTAL	0	6.50	23.70	333.80	305.2	26.20	9.60	.10	0	0	0	0
MEAN	0	.22	.76	10.8	10.9	.85	.32	.003	0	0	0	0
MAX	0	2.5	13	157	132	1.4	.60	.10	0	0	0	0
MIN	0	0	0	.30	1.5	.60	0	0	0	0	0	0
AC-FT	0	13	47	662	605	52	19	.2	0	0	0	0

WTR YR 1966 TOTAL 705.10 MEAN 1.93 MAX 157 MIN 0 AC-FT 1,400

11390672 STONE CORRAL CREEK NEAR SITES, CALIF.--CONTINUED

DISCHARGF, IN CUBIC FFET PER SFCOND, WATER YEAR OCTOBER 1966 TO SFPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	0	.30	45	2.5	6.0	4.7	.40	.40		
2		0	24	.20	30	2.5	5.1	4.0	2.9	.30		
3		0	10	.20	22	2.5	5.0	3.7	3.9	.20		
4		0	34	.20	18	2.3	5.1	3.8	1.3	.10		
5		0	101	.20	15	2.2	5.4	3.6	.70	.10		
6		0	17	.20	12	2.0	11	3.7	.80	0		
7		0	6.6	.20	11	2.1	11	3.8	.80	0		
8		0	3.1	.20	9.3	2.1	7.4	4.1	.80	0		
9		0	2.1	.20	8.6	2.1	6.8	3.8	.80	0		
10		0	3.9	.20	7.6	2.2	7.3	3.1	.70	0		
11		0	2.4	.20	6.6	3.6	8.2	2.1	.80	0		
12		0	1.7	.20	6.3	11	8.4	1.9	1.6	0		
13		0	2.4	.20	6.1	6.9	8.8	1.7	8.5	0		
14		0	2.3	.20	5.2	4.0	9.4	1.7	1.7	0		
15		0	1.6	.20	4.7	6.3	11	1.5	1.1	0		
16		0	1.3	.20	4.6	55	15	1.2	1.0	0		
17		0	1.1	.10	4.5	11	12	.90	.90	0		
18		0	1.0	.10	4.2	7.9	14	.50	.90	0		
19		2.1	.90	.10	4.4	6.7	20	.30	.90	0		
20		3.0	.80	1.3	5.0	6.6	19	.20	.90	0		
21		.40	.70	480	4.7	7.5	241	.10	.90	0		
22		0	.60	49	4.7	6.3	47	.10	.80	0		
23		0	.50	15	4.8	6.0	70	0	.80	0		
24		0	.50	334	4.7	5.4	183	0	.70	0		
25		0	.50	49	4.9	5.3	40	0	.80	0		
26		0	.50	185	3.5	5.3	20	0	.70	0		
27		0	.40	137	2.8	5.2	13	0	.70	0		
28		0	.30	104	2.5	5.1	9.4	0	.60	0		
29		0	.30	241	------	5.1	7.1	.10	.50	0		
30		0	.30	592	------	10	5.4	.10	.40	0		
31		------	.30	129	------	10	------	.10	------	0		------
TOTAL	0	5.50	222.10	2,319.90	262.7	212.7	831.8	50.80	38.30	1.10	0	0
MEAN	0	.18	7.16	74.8	9.38	6.86	27.7	1.64	1.28	.036	0	0
MAX	0	3.0	101	592	45	55	241	4.7	8.5	.40	0	0
MIN	0	0	0	.10	2.5	2.0	5.0	0	.40	0	0	0
AC-FT	0	11	441	4,600	521	422	1,650	101	76	2.2	0	0

CAL YR 1966 TOTAL 902.50 MEAN 2.47 MAX 157 MIN 0 AC-FT 1,790
WTR YR 1967 TOTAL 3,944.90 MEAN 10.8 MAX 592 MIN 0 AC-FT 7,820

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	5.8	6.1	.70	1.6	0			
2				0	97	5.3	.90	1.3	.10			
3				0	18	4.4	.70	1.0	.10			
4				0	8.5	4.5	.60	.90	.10			
5				0	5.9	4.2	.60	.80	.20			
6				0	4.3	3.7	.70	.70	.20			
7				0	3.3	3.7	.60	.60	.10			
8				0	2.7	5.5	.70	.60	.10			
9				0	2.5	4.0	.80	.50	.10			
10				0	2.3	3.1	1.0	.40	.10			
11				0	1.9	3.0	1.2	.40	0			
12				0	1.6	3.5	1.4	.40	0			
13				0	1.5	6.0	1.4	.30	0			
14				3.8	1.3	3.8	1.7	.30	0			
15				7.0	1.3	3.0	2.0	.40	0			
16				.30	62	13	2.2	.30	0			
17				0	337	4.6	2.1	.20	0			
18				0	29	2.4	2.1	.20	0			
19				0	289	1.6	2.5	.20	0			
20				0	83	1.3	2.5	.20	0			
21				0	53	1.2	2.4	.20	0			
22				0	25	1.2	2.4	.20	0			
23				0	18	1.2	2.6	.20	0			
24				0	14	1.0	2.4	.20	0			
25				0	11	1.0	2.2	.30	0			
26				0	9.2	.80	2.1	.30	0			
27				0	8.1	.70	1.9	.20	0			
28				0	7.0	.70	1.9	0	0			
29				982	6.3	.60	1.9	0	0			
30				178	------	.60	1.9	0	0			
31		------		15	------	.50	------	0	------			------
TOTAL	0	0	0	1,186.10	1,109.5	96.20	48.10	12.90	1.10	0	0	0
MFAN	0	0	0	38.3	38.3	3.10	1.60	.42	.037	0	0	0
MAX	0	0	0	982	337	13	2.6	1.6	.20	0	0	0
MIN	0	0	0	0	1.3	.50	.60	0	0	0	0	0
AC-FT	0	0	0	2,350	2,200	191	95	26	2.2	0	0	0

CAL YR 1967 TOTAL 3,717.30 MEAN 10.2 MAX 592 MIN 0 AC-FT 7,370
WTR YR 1968 TDTAL 2,453.90 MEAN 6.70 MAX 982 MIN 0 AC-FT 4,870

11390672 STONE CORRAL CREEK NEAR SITES, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATFR YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	1.0	15	100	13	4.9	0			
2			0	.70	13	109	14	5.1	0			
3			0	.50	12	73	13	5.2	0			
4			0	.30	12	55	12	4.8	0			
5			0	.20	319	47	12	4.9	0			
6			0	.20	339	47	11	4.7	0			
7			0	.10	48	41	9.8	4.7	0			
8			0	.10	36	37	9.0	4.4	0			
9			0	.10	130	368	8.3	4.6	0			
10			0	0	63	233	7.9	4.7	.10			
11			0	.50	242	64	6.7	4.5	.20			
12			0	24	122	56	6.3	4.1	.10			
13			.10	207	58	49	5.7	3.8	0			
14			0	23	419	43	5.7	3.5	0			
15			.10	7.5	602	40	5.3	3.3	0			
16			0	4.5	118	37	4.9	2.6	0			
17			0	3.2	86	36	4.9	2.1	0			
18			0	73	80	30	4.9	1.8	0			
19			0	153	62	28	4.8	1.3	0			
20			0	74	49	40	4.8	.90	0			
21			0	348	41	51	4.9	.80	0			
22			0	75	37	28	5.0	.50	0			
23			0	42	53	23	5.7	.50	0			
24			28	23	226	21	6.3	.30	0			
25			33	39	77	20	5.1	.30	0			
26			14	193	47	19	5.1	.20	0			
27			3.6	38	265	18	5.1	.20	0			
28			8.7	25	371	18	5.0	.20	0			
29			5.7	20	------	17	4.8	.10	0			
30			2.5	29	------	16	5.2	0	0			
31		------	1.4	17	------	15	------	0	------			------
TOTAL	0	0	97.10	1,421.90	3,942	1,779	216.2	79.00	.40	0	0	0
MEAN	0	0	3.13	45.9	141	57.4	7.21	2.55	.013	0	0	0
MAX	0	0	33	348	602	368	14	5.2	.20	0	0	0
MIN	0	0	0	0	12	15	4.8	0	0	0	0	0
AC-FT	0	0	193	2,820	7,820	3,530	429	157	.8	0	0	0

CAL YR 1968 TOTAL 2,551.00 MEAN 6.97 MAX 982 MIN 0 AC-FT 5,060
WTR YR 1969 TOTAL 7,535.60 MEAN 20.6 MAX 602 MIN 0 AC-FT 14,950

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAP	APR	MAY	JUN	JUL	AUG	SEP
1			0	.30	26	24	4.0	1.3	.10			
2			0	.15	21	11	4.1	1.3	0			
3			0	.10	19	9.5	3.6	1.2	0			
4			0	.05	17	50	3.3	1.1	0			
5			0	0	15	27	3.3	.90	0			
6			0	0	13	15	3.4	.80	.10			
7			0	0	12	13	3.1	.80	.10			
8			0	0	11	24	2.7	.80	.10			
9			0	758	10	15	2.8	.80	.20			
10			0	159	9.1	16	2.7	.80	.10			
11			0	54	9.4	12	2.4	.70	.10			
12			0	17	15	11	2.0	.60	.10			
13			0	17	233	11	2.0	.60	.10			
14			0	540	58	10	2.1	.50	.10			
15			0	114	28	9.1	2.4	.40	.10			
16			0	503	32	8.8	2.8	.30	.10			
17			0	71	41	7.8	2.7	.30	.10			
18			0	36	24	7.2	2.2	.30	.10			
19			47	34	19	7.2	2.1	.30	0			
20			30	131	17	7.2	2.0	.30	0			
21			20	257	16	7.2	2.0	.20	0			
22			12	84	15	7.2	2.0	.20	0			
23			22	433	14	6.8	1.9	.20	0			
24			9.0	364	14	6.5	1.9	.10	0			
25			5.0	84	13	5.6	1.9	.10	0			
26			4.0	60	12	5.2	1.9	.10	0			
27			3.0	139	11	4.6	1.8	.10	0			
28			2.5	52	13	4.5	1.7	.10	0			
29			1.8	44	------	4.5	1.6	.10	0			
30			1.0	37	------	4.3	1.5	.10	0			
31		------	.50	30	------	4.0	------	0	------			------
TOTAL	0	0	157.80	4,018.60	737.5	356.2	73.9	15.40	1.50	0	0	0
MEAN	0	0	5.09	130	26.3	11.5	2.46	.50	.050	0	0	0
MAX	0	0	47	758	233	50	4.1	1.3	.20	0	0	0
MIN	0	0	0	0	9.1	4.0	1.5	0	0	0	0	0
AC-FT	0	0	313	7,970	1,460	707	147	31	3.0	0	0	0

CAL YR 1969 TOTAL 7,596.30 MEAN 20.8 MAX 602 MIN 0 AC-FT 15,070
WTR YR 1970 TOTAL 5,360.90 MEAN 14.7 MAX 758 MIN 0 AC-FT 10,630

11391000 SACRAMENTO RIVER AT KNIGHTS LANDING, CALIF.

LOCATION.--Lat 38°48'11", long 121°42'55", in NE¼ sec.14, T.11 N., R.2 E., Sutter County, on left bank just upstream from Southern Pacific Railroad bridge at Knights Landing, 13.1 miles upstream from Feather River and at mile 34.0 upstream from Sacramento.

DRAINAGE AREA.--14,541 sq mi (revised).

PERIOD OF RECORD.--April 1921 to October 1939 (low-water periods only), June 1940 to September 1970. Monthly discharge only for some periods, published in WSP 1315-A.

GAGE.--Water-stage recorder. Datum of gage is 2.93 ft below mean sea level. Prior to Dec. 9, 1930, in fender pier of railroad bridge at present datum. Water-stage recorder for station at Verona was used as auxiliary gage for this station January 1941 to June 1945. Since Aug. 16, 1945, auxiliary water-stage recorder 6.0 miles downstream from base gage.

AVERAGE DISCHARGE.--30 years (1940-70), 10,520 cfs (7,622,000 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 7, 1966	27,500	a33.92	May 2, 1966	5,920
1967	Feb. 1, 1967	27,900	39.04	Oct. 3, 1966	7,310
1968	Feb. 28, 1968	28,100	37.27	June 2, 1968	5,420
1969	Jan. 24, 1969	30,600	39.17	Oct. 10, 1968	7,830
1970	Jan. 26, 1970	30,800	40.86	June 5, 1970	5,820

a Maximum gage height for year, 35.40 ft Jan. 10, 1966, backwater from Feather River and Sutter bypass.

Period of record: Maximum discharge (1940-70), 30,800 cfs Jan. 26, 1970 (gage height, 40.86 ft); maximum gage height, 41.83 ft Feb. 8, 1942 (backwater from Feather River and Sutter bypass); minimum discharge recorded (1921-70), 250 cfs July 23, 1931 (gage height, 7.80 ft).

REMARKS.--Records good. Natural flow of stream affected by storage reservoirs, power developments, bypassing for flood control, diversions for irrigation, and considerable return flow from irrigated areas. Water-quality records obtained near this station for the water years 1966-70 are published in reports of the Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9,240	8,890	13,400	19,300	19,700	14,000	11,400	6,150	6,790	8,160	10,200	11,300
2	9,100	8,850	11,000	18,900	18,700	12,700	11,400	5,920	6,900	8,080	9,900	10,800
3	9,000	8,770	9,980	16,800	21,400	11,900	12,000	6,250	6,870	8,060	9,850	10,000
4	8,970	8,620	11,300	16,200	21,400	11,100	11,400	6,720	6,940	8,320	9,770	9,910
5	8,810	8,780	13,000	18,400	22,800	10,300	11,200	7,070	7,440	8,530	9,810	9,830
6	8,750	8,770	13,700	26,400	24,400	9,900	10,500	7,530	7,650	8,760	9,690	9,590
7	8,780	8,730	14,000	27,300	25,700	9,950	9,530	7,920	8,000	8,790	9,740	9,620
8	8,780	8,820	14,100	25,700	25,500	10,100	8,780	8,360	8,110	8,780	9,790	9,620
9	8,650	8,940	14,400	24,700	23,800	9,990	8,140	8,370	8,120	8,920	9,810	9,480
10	8,650	9,180	14,700	24,800	20,600	10,300	7,620	8,530	8,140	8,990	9,870	9,480
11	8,560	9,190	14,700	24,200	17,500	10,800	7,530	8,940	8,030	9,230	9,920	9,340
12	8,630	9,140	14,800	23,700	16,000	13,000	9,510	9,790	7,920	9,330	9,790	8,830
13	8,660	9,240	14,900	24,600	15,100	13,200	10,000	10,500	7,530	9,530	9,700	8,870
14	8,690	9,860	14,900	23,400	14,500	12,100	10,200	10,500	7,200	9,850	9,920	8,810
15	8,700	11,000	15,000	22,300	13,900	11,800	8,460	10,600	6,920	10,200	9,900	8,710
16	8,780	16,100	14,900	21,900	13,200	12,200	7,310	10,100	6,480	10,400	9,970	8,480
17	8,780	20,900	14,900	21,400	12,600	12,600	6,770	9,910	6,400	10,600	9,930	8,360
18	8,820	17,500	14,700	21,500	12,000	13,100	7,210	9,550	6,820	10,700	9,980	8,360
19	8,880	19,100	14,500	21,200	11,700	13,300	7,870	9,290	7,120	10,600	10,000	8,340
20	9,060	20,900	14,500	21,000	11,300	13,900	8,510	8,720	7,190	10,600	9,780	8,290
21	9,170	17,600	14,500	20,300	12,100	14,400	8,290	7,950	7,650	10,800	9,730	8,230
22	9,220	15,900	14,200	20,100	12,900	14,400	7,910	7,830	7,800	10,900	10,000	7,960
23	9,090	15,200	14,000	20,000	11,600	14,600	7,780	7,770	8,030	10,900	10,200	8,120
24	9,020	14,500	13,600	19,800	11,100	14,400	7,610	7,600	8,220	10,900	10,200	7,800
25	8,950	14,000	13,500	20,000	11,200	13,700	7,270	7,520	8,400	10,500	10,100	7,780
26	8,870	15,000	14,000	19,600	13,500	13,500	7,130	7,420	8,520	10,000	10,100	7,940
27	8,880	15,700	14,400	19,800	14,700	13,000	7,880	7,190	8,290	9,760	10,300	7,860
28	8,870	15,500	14,400	19,100	15,500	12,100	8,500	7,000	8,210	9,900	10,600	7,730
29	8,880	15,600	14,300	18,300	------	12,000	7,170	7,120	8,190	10,000	10,600	7,800
30	8,900	15,600	18,400	17,600	------	11,800	6,410	7,110	8,210	10,400	10,800	7,240
31	9,030	------	20,300	19,500	------	11,500	------	6,880	------	10,700	11,100	------
TOTAL	275,170	385,880	442,980	657,800	464,400	381,640	261,290	252,110	228,090	301,190	311,050	264,480
MEAN	8,876	12,860	14,290	21,220	16,590	12,310	8,710	8,133	7,603	9,716	10,030	8,816
MAX	9,240	20,900	20,300	27,300	25,700	14,600	12,000	10,600	8,520	10,900	11,100	11,300
MIN	8,560	8,620	9,980	16,200	11,100	9,900	6,410	5,920	6,400	8,060	9,690	7,240
AC-FT	545,800	765,400	878,700	1,305M	921,100	757,000	518,300	500,100	452,400	597,400	617,000	524,600

CAL YR 1965 TOTAL 4,518,880 MEAN 12,380 MAX 27,100 MIN 6,110 AC-FT 8,963,000
WTR YR 1966 TOTAL 4,226,080 MEAN 11,580 MAX 27,300 MIN 5,920 AC-FT 8,382,000

M EXPRESSED IN THOUSANDS.

11391000 SACRAMENTO RIVER AT KNIGHTS LANDING, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7,400	7,790	23,200	14,800	27,600	13,700	13,500	25,100	18,400	10,900	10,200	10,800
2	7,380	7,880	21,400	13,400	27,800	13,500	16,600	25,000	18,100	10,800	10,000	10,900
3	7,310	7,970	22,200	12,800	27,000	13,100	17,700	24,000	18,400	10,700	10,100	11,000
4	7,400	7,830	25,600	12,300	26,400	12,900	15,900	22,600	19,500	10,800	9,970	11,100
5	7,770	7,950	25,400	12,200	26,400	12,600	14,700	20,800	18,500	10,600	10,100	11,400
6	7,750	8,220	25,400	11,700	26,100	12,100	13,800	19,900	17,400	10,200	10,300	11,600
7	7,780	8,450	26,100	11,200	26,300	11,700	14,700	18,700	17,000	10,000	10,300	11,700
8	7,820	9,090	26,500	10,300	26,300	11,300	19,900	17,200	16,800	10,200	10,400	11,700
9	7,640	9,310	26,400	9,960	26,100	11,000	22,200	16,300	16,300	10,200	10,300	11,800
10	7,720	9,260	26,300	9,670	25,600	10,500	22,200	15,000	15,500	9,990	10,200	12,100
11	7,590	9,010	26,400	9,620	24,700	9,710	21,400	16,100	15,300	9,900	10,200	12,200
12	7,570	8,980	26,200	9,190	24,100	10,600	21,700	18,300	15,100	9,880	10,200	12,600
13	7,770	8,870	25,200	8,900	24,000	13,700	22,800	18,800	14,700	9,930	10,400	13,100
14	7,660	9,050	24,400	8,560	23,400	14,600	21,700	18,500	14,600	9,990	10,500	13,500
15	7,630	9,490	25,100	8,330	23,200	14,500	21,900	18,300	14,600	9,960	10,400	13,600
16	7,720	9,820	25,400	8,300	22,000	14,000	23,100	17,200	14,100	10,100	10,200	13,700
17	7,650	10,300	24,200	8,130	21,000	16,800	23,100	16,800	13,700	10,100	10,100	13,600
18	7,700	12,100	23,000	8,100	19,700	21,600	22,500	17,300	13,300	10,300	9,930	13,400
19	7,750	11,500	22,000	7,930	19,300	20,700	24,200	17,600	13,100	10,000	10,100	13,500
20	7,700	11,300	21,500	7,940	18,400	18,600	25,000	17,900	12,800	9,830	10,000	13,500
21	7,590	20,000	20,900	8,800	17,800	16,800	25,100	19,000	12,900	9,870	10,100	13,000
22	7,670	24,500	20,400	22,000	16,900	16,900	24,600	20,000	12,800	10,200	10,100	12,500
23	7,790	21,900	20,100	24,900	16,000	16,600	24,100	21,000	12,500	10,000	10,100	12,100
24	7,940	19,000	20,100	24,900	14,800	15,700	24,100	21,500	12,500	10,200	10,000	12,100
25	7,910	16,900	19,800	24,400	14,300	15,900	25,600	22,100	11,900	10,100	10,200	12,000
26	7,830	17,000	19,200	24,900	14,200	15,500	25,700	22,100	11,700	9,920	10,600	11,800
27	7,780	17,000	18,300	25,200	14,300	15,000	25,700	22,000	11,400	9,780	10,800	11,700
28	7,820	16,800	18,000	25,400	14,000	14,300	25,700	21,300	11,400	9,710	10,900	11,500
29	7,670	17,000	17,500	25,600	------	13,500	25,700	20,800	11,200	9,820	10,900	11,200
30	7,540	20,400	16,800	26,300	------	13,600	25,300	20,000	11,100	9,950	11,000	11,300
31	7,560	------	15,600	27,100	------	13,100	------	19,400	------	10,100	10,900	------
TOTAL	237,810	374,670	698,600	462,830	607,700	444,110	650,200	610,600	436,600	314,030	319,500	366,000
MEAN	7,671	12,490	22,540	14,930	21,700	14,330	21,670	19,700	14,550	10,130	10,310	12,200
MAX	7,940	24,500	26,500	27,100	27,800	21,600	25,700	25,100	19,500	10,900	11,000	13,700
MIN	7,310	7,790	15,600	7,930	14,000	9,710	13,500	15,000	11,100	9,710	9,930	10,800
AC-FT	471,700	743,200	1,386M	918,000	1,205M	880,900	1,290M	1,211M	866,000	622,900	633,700	726,000

CAL YR 1966 TOTAL 4,433,130 MEAN 12,150 MAX 27,300 MIN 5,920 AC-FT 8,793,000
WTR YR 1967 TOTAL 5,522,650 MEAN 15,130 MAX 27,800 MIN 7,310 AC-FT 10,950,000

M EXPRESSED IN THOUSANDS.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11,300	10,500	9,460	10,400	26,200	27,100	11,800	5,950	5,480	7,470	10,200	8,680
2	11,100	10,500	10,100	10,300	22,800	26,700	11,700	5,850	5,420	7,480	10,400	8,520
3	10,500	10,400	10,200	9,990	20,600	26,200	11,900	6,110	5,630	7,690	10,500	8,500
4	9,990	9,700	10,800	9,740	24,400	26,000	11,500	6,500	5,820	7,620	10,600	8,660
5	10,400	9,360	13,600	9,660	24,900	25,000	10,900	7,160	5,840	7,870	10,700	8,950
6	10,800	9,360	14,000	9,420	22,200	22,800	10,400	7,340	5,960	7,880	10,700	9,290
7	10,900	9,060	14,600	9,340	19,200	22,700	10,200	7,800	6,690	8,320	10,800	9,780
8	10,500	8,660	13,600	8,890	17,700	22,000	9,620	8,250	7,680	8,340	10,700	10,300
9	10,500	8,620	14,400	8,650	17,200	21,500	8,740	8,410	8,480	8,370	10,700	10,600
10	10,400	8,790	13,600	8,950	16,400	21,200	8,330	8,740	8,440	8,520	10,800	10,800
11	10,400	8,860	12,300	15,000	15,900	20,600	8,130	9,240	8,320	8,550	10,800	11,200
12	10,500	8,830	11,600	21,600	15,800	19,400	8,180	9,710	8,010	8,610	10,700	11,500
13	10,300	8,750	11,100	17,000	15,500	18,800	8,080	9,980	7,640	8,600	10,700	11,600
14	10,600	8,770	10,900	13,900	14,400	19,200	7,980	10,100	7,300	8,910	10,900	11,600
15	10,100	8,930	10,600	16,400	14,600	20,900	7,410	10,200	6,950	9,200	11,000	11,800
16	10,000	9,450	10,400	27,400	14,200	21,700	7,070	10,600	6,650	9,180	11,100	12,000
17	10,100	9,510	10,300	27,400	14,200	21,100	6,910	9,680	6,460	9,230	10,900	11,600
18	10,200	9,370	10,300	25,300	18,900	24,700	6,360	8,780	6,550	9,290	10,800	11,100
19	10,200	9,200	10,200	21,000	27,700	23,000	6,090	8,330	6,400	9,300	10,400	11,000
20	10,100	9,420	10,300	17,100	26,000	19,100	6,040	8,120	6,250	9,200	10,200	10,800
21	10,100	9,510	10,300	15,200	26,600	17,000	6,140	8,420	6,320	9,300	10,800	10,700
22	10,400	9,430	10,100	14,300	26,800	15,900	6,430	8,810	6,420	9,340	11,900	10,800
23	10,500	9,150	10,100	13,400	27,800	15,300	6,590	8,770	6,460	9,250	13,000	10,700
24	10,500	9,000	9,950	12,700	27,800	14,700	6,480	8,530	6,290	9,250	12,000	10,700
25	10,500	8,950	9,850	12,200	27,800	14,200	6,550	8,310	6,250	9,370	11,200	10,500
26	10,500	8,840	9,960	11,900	27,800	13,700	6,840	8,130	6,390	9,440	10,700	10,400
27	10,600	8,830	9,950	11,600	27,800	13,300	7,410	7,690	6,570	9,620	10,300	10,400
28	10,700	8,830	10,100	11,200	27,700	12,900	7,080	7,290	7,040	9,990	10,100	10,300
29	10,600	8,790	10,400	11,100	27,800	12,200	6,220	6,670	7,470	10,100	9,850	10,200
30	10,700	9,000	10,500	14,900	------	12,000	6,100	6,320	7,670	10,100	9,380	10,100
31	10,700	------	10,500	25,800	------	12,100	------	5,770	------	10,100	8,900	------
TOTAL	324,690	276,370	344,070	451,740	636,700	603,000	243,180	251,560	202,850	275,490	331,730	313,080
MEAN	10,470	9,212	11,100	14,570	21,960	19,450	8,106	8,115	6,762	8,887	10,700	10,440
MAX	11,300	10,500	14,600	27,400	27,800	27,100	11,900	10,600	8,480	10,100	13,000	12,000
MIN	9,990	8,620	9,460	8,650	14,200	12,000	6,040	5,770	5,420	7,470	8,900	8,500
AC-FT	644,000	548,200	682,500	896,000	1,263M	1,196M	482,300	499,000	402,400	546,400	658,000	621,000

CAL YR 1967 TOTAL 5,156,700 MEAN 14,130 MAX 27,800 MIN 7,930 AC-FT 10,230,000
WTR YR 1968 TOTAL 4,254,460 MEAN 11,620 MAX 27,800 MIN 5,420 AC-FT 8,439,000

M EXPRESSED IN THOUSANDS.

11391000 SACRAMENTO RIVER AT KNIGHTS LANDING, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10,100	9,380	9,140	19,100	27,200	26,200	18,200	12,300	15,000	12,200	8,770	11,400
2	10,300	9,280	9,270	16,100	26,900	26,900	18,600	13,100	14,300	12,100	8,830	11,600
3	9,980	9,070	9,310	14,800	26,400	26,800	18,400	13,400	14,200	11,800	8,820	11,700
4	9,330	8,820	9,300	14,100	26,000	26,400	16,800	13,500	14,400	11,400	8,890	11,800
5	8,690	9,330	9,130	13,900	25,500	26,000	15,300	13,600	14,300	10,400	8,930	11,600
6	8,380	9,690	9,010	13,800	24,900	25,700	15,700	13,100	14,200	10,300	8,880	10,900
7	8,070	9,660	8,940	13,600	26,700	25,100	18,800	12,600	13,900	10,100	8,840	10,500
8	7,970	9,450	8,960	13,200	26,800	24,400	19,500	12,500	14,000	10,000	8,820	10,100
9	7,870	9,400	9,160	12,400	25,800	23,700	17,500	13,000	14,100	9,840	8,850	9,990
10	7,830	9,220	9,590	11,800	25,200	22,300	16,400	13,600	13,900	9,590	8,820	10,000
11	7,850	9,030	12,800	10,900	26,200	21,300	15,800	14,500	14,200	9,470	8,570	10,100
12	7,960	9,140	23,800	10,200	26,300	20,600	15,400	15,100	14,600	9,530	8,870	10,100
13	8,060	9,090	21,900	20,900	26,900	19,300	15,200	15,500	15,000	9,460	9,070	9,960
14	8,630	9,570	16,100	28,100	26,200	18,200	15,100	15,600	15,100	9,510	9,060	10,000
15	9,260	9,930	17,600	29,000	26,800	17,300	14,800	15,100	15,000	9,550	9,100	10,000
16	9,410	10,100	24,700	28,300	26,500	16,800	14,400	15,500	14,900	9,460	9,090	10,100
17	9,160	10,400	26,500	26,800	27,500	16,200	13,700	14,600	14,500	9,300	9,490	10,200
18	9,020	10,300	23,600	25,800	28,100	15,900	12,800	16,200	13,900	9,180	9,380	10,300
19	8,720	10,100	17,900	25,000	27,900	15,900	12,500	17,100	13,700	8,900	9,280	10,200
20	8,760	11,100	15,200	25,300	27,600	16,100	12,700	17,500	13,600	8,890	9,500	10,100
21	8,810	11,200	13,400	27,700	27,300	15,900	12,300	17,400	13,500	8,970	9,600	9,990
22	8,770	10,600	12,000	29,000	27,100	16,800	11,700	17,300	13,400	8,970	9,600	9,810
23	8,630	9,950	11,100	29,800	26,700	17,400	11,900	17,200	13,400	8,870	9,640	9,720
24	8,570	9,640	10,800	30,000	26,700	16,400	12,700	17,300	13,000	8,750	9,680	9,630
25	8,410	9,510	17,800	29,200	26,700	16,300	13,900	16,700	12,200	8,640	9,880	9,390
26	8,440	9,690	28,000	28,400	26,300	16,100	13,800	16,600	11,700	8,510	10,100	9,170
27	8,320	9,680	29,100	28,900	26,600	16,100	12,800	16,500	12,400	8,640	10,300	9,140
28	8,250	9,410	26,600	28,600	26,400	16,200	12,900	16,100	12,600	8,900	10,400	9,220
29	8,260	9,290	24,100	27,800	------	16,400	12,900	15,900	12,400	8,860	10,700	9,330
30	8,420	9,150	27,200	27,700	------	17,100	12,300	15,700	12,400	8,690	11,000	9,360
31	8,790	------	24,600	27,800	------	18,000	------	15,300	------	8,580	11,200	------
TOTAL	269,020	290,180	516,610	688,000	745,200	613,800	444,800	469,400	413,800	297,360	291,960	305,410
MEAN	8,678	9,673	16,660	22,190	26,610	19,800	14,830	15,140	13,790	9,592	9,418	10,180
MAX	10,300	11,200	29,100	30,000	28,100	26,900	19,500	17,500	15,100	12,200	11,200	11,800
MIN	7,830	8,820	8,940	10,200	24,900	15,900	11,700	12,300	11,700	8,510	8,570	9,140
AC-FT	533,600	575,600	1,025M	1,365M	1,478M	1,217M	882,300	931,100	820,800	589,800	579,100	605,800

CAL YR 1968 TOTAL 4,385,140 MEAN 11,980 MAX 29,100 MIN 5,420 AC-FT 8,698,000
WTR YR 1969 TOTAL 5,345,540 MEAN 14,650 MAX 30,000 MIN 7,830 AC-FT 10,600,000

M EXPRESSED IN THOUSANDS.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9,510	9,020	9,440	25,500	27,700	21,500	12,600	9,220	6,240	8,330	6,620	7,650
2	9,490	9,010	9,360	25,600	27,400	23,700	12,000	8,980	6,330	8,290	6,630	7,720
3	9,260	8,960	9,230	25,400	27,200	24,800	11,400	8,890	6,200	8,120	6,520	7,830
4	8,830	9,010	9,250	23,300	27,200	22,700	11,000	8,970	5,940	7,920	6,470	7,770
5	8,590	8,980	9,250	21,200	26,900	21,100	10,800	9,140	5,820	7,940	6,350	7,760
6	8,440	9,140	9,220	20,000	26,600	24,400	10,500	8,800	6,090	7,840	6,280	7,750
7	8,360	10,300	9,210	18,900	26,600	24,100	10,000	8,620	6,150	7,530	6,390	7,750
8	8,400	10,800	9,020	18,400	26,500	21,600	9,780	9,000	6,520	7,190	6,510	7,870
9	8,270	10,800	9,090	18,400	26,500	23,200	9,190	9,440	6,920	6,970	6,610	7,980
10	8,160	10,500	9,220	22,200	26,300	23,900	9,020	9,910	7,320	6,920	6,630	8,340
11	8,200	10,200	9,180	25,700	26,200	23,700	8,500	10,200	7,570	6,900	6,610	8,740
12	8,260	9,830	9,130	25,800	26,200	23,600	8,320	10,200	8,070	7,140	6,570	8,950
13	8,340	8,680	10,500	25,100	26,200	23,200	8,380	10,200	7,990	7,640	6,500	8,980
14	8,360	7,740	22,400	25,000	25,700	21,800	8,520	10,200	7,750	7,780	6,500	8,930
15	8,530	8,220	24,400	25,500	25,800	20,300	8,510	9,820	7,780	7,860	6,460	8,820
16	8,790	9,120	21,400	25,900	26,000	19,400	8,270	8,990	7,680	7,740	6,400	8,730
17	9,580	9,290	18,600	26,000	25,400	18,400	8,080	8,160	7,630	7,600	6,440	8,850
18	10,300	9,280	16,600	27,000	25,400	18,000	7,690	7,650	7,450	7,670	6,420	8,800
19	10,100	9,350	15,900	26,900	25,800	17,300	7,570	7,490	7,270	7,820	6,500	8,780
20	9,730	9,370	19,500	26,500	26,100	16,600	7,180	7,500	7,190	7,800	6,520	8,780
21	9,520	9,520	26,300	26,500	25,800	16,000	6,940	7,390	7,180	7,780	6,660	8,800
22	9,340	9,460	26,600	26,500	25,200	15,600	6,830	7,260	7,220	7,650	6,700	8,770
23	9,270	9,400	26,800	27,700	24,800	15,100	6,590	7,350	7,100	7,600	6,690	8,520
24	9,150	9,390	25,900	27,600	24,500	14,800	6,720	7,300	6,920	7,570	6,860	8,290
25	9,250	9,500	26,600	29,000	24,000	14,600	7,160	6,930	6,700	7,640	6,990	8,070
26	9,170	9,380	26,900	30,400	23,700	14,500	7,890	6,810	6,610	7,640	7,020	8,040
27	9,130	9,430	26,800	29,800	23,000	14,200	8,600	6,570	6,660	7,560	7,090	8,100
28	9,270	9,430	26,500	29,200	22,200	13,700	8,970	6,440	6,790	7,320	7,180	8,210
29	9,160	9,400	26,100	29,000	------	13,400	9,180	6,540	7,200	7,150	7,340	8,180
30	9,060	9,400	26,000	28,800	------	13,100	9,400	6,540	7,930	7,060	7,490	8,220
31	9,000	------	25,400	28,300	------	12,800	------	6,390	------	6,810	7,580	------
TOTAL	278,820	281,910	549,800	791,100	720,900	591,100	265,590	256,900	210,220	234,780	207,530	249,980
MEAN	8,994	9,397	17,740	25,520	25,750	19,070	8,853	8,287	7,007	7,574	6,695	8,333
MAX	10,300	10,800	26,900	30,400	27,700	24,800	12,600	10,200	8,070	8,330	7,580	8,980
MIN	8,160	7,740	9,020	18,400	22,200	12,800	6,590	6,390	5,820	6,810	6,280	7,650
AC-FT	553,000	559,200	1,091M	1,569M	1,430M	1,172M	526,800	509,600	417,000	465,700	411,600	495,800

CAL YR 1969 TOTAL 5,380,260 MEAN 14,740 MAX 30,000 MIN 7,740 AC-FT 10,670,000
WTR YR 1970 TOTAL 4,638,630 MEAN 12,710 MAX 30,400 MIN 5,820 AC-FT 9,201,000

M EXPRESSED IN THOUSANDS.

11391370 FRENCHMAN LAKE NEAR CHILCOOT, CALIF.

LOCATION.--Lat 39°53'37", long 120°11'18", in NW¼NE¼ sec.33, T.24 N., R.16 E., Plumas County, in valve chamber at center of toe of Frenchman Dam on Little Last Chance Creek, 5.4 miles upstream from confluence with Middle Fork Feather River and 7.1 miles north of Chilcoot.

DRAINAGE AREA.--81.1 sq mi.

PERIOD OF RECORD.--October 1966 to September 1970 in reports of Geological Survey. November 1961 to September 1966 in reports of California Department of Water Resources.

GAGE.--Water-stage recorder in valve house at center of toe of Frenchman Dam. Datum of gage is at mean sea level (levels by California Department of Water Resources).

EXTREMES.--Maximums and minimums (contents in acre-feet, elevation in feet) for the water years 1967-70 are contained in the following table:

	Maximum			Minimum		
Wtr yr	Date	Contents	Elevation	Date	Contents	Elevation
1967	May 22, 1967	59,093	5,590.28	Nov. 12, 1966	36,715	5,574.64
1968	Apr. 16, 1968	55,988	5,588.36	Sept.30, 1968	40,575	5,577.69
1969	Apr. 23, 1969	58,531	5,589.90	Oct. 31, Nov. 1, 1968	40,224	5,577.42
1970	Jan. 28, 29, 1970	57,039	5,588.98	Sept.30, 1970	41,051	5,578.01

Period of record: Maximum contents, 59,093 acre-ft May 22, 1967 (elevation, 5,590.28 ft); minimum, 36,715 acre-ft Nov. 12, 1966 (elevation, 5,574.64 ft).

REMARKS.--Lake is formed by a rockfill dam completed in 1961. Capacity, 53,582 acre-ft between elevations 5,517 (invert of intake) and 5,588 ft (crest of spillway). Dead storage, 1,840 acre-ft.

COOPERATION.--Record of contents furnished by California Department of Water Resources.

MONTHEND ELEVATION AND CONTENTS, WATER YEARS OCTOBER 1966 TO SEPTEMBER 1970

DATE	ELEVATION (FEET)†	CONTENTS (ACRE-FEET)	CHANGE IN CONTENTS (ACRE-FEET)	DATE	ELEVATION (FEET)†	CONTENTS (ACRE-FEET)	CHANGE IN CONTENTS (ACRE-FEET)
OCT. 31, 1966......	5,574.67	36,752	-468	OCT. 31, 1968......	5,577.42	40,224	-351
NOV. 30............	5,575.11	37,294	+542	NOV. 30............	5,577.58	40,432	+208
DEC. 31............	5,576.09	38,520	+1,226	DEC. 31............	5,578.03	41,020	+588
CAL YR 1966......	-	-	-8,488	CAL YR 1968......	-	-	-5,632
JAN. 31, 1967......	5,577.50	40,327	+1,807	JAN. 31, 1969......	5,582.19	46,709	+5,689
FEB. 28............	5,579.42	42,871	+2,544	FEB. 28............	5,583.87	49,192	+2,425
MAR. 31............	5,585.69	51,844	+8,973	MAR. 31............	5,585.63	51,812	+2,620
APR. 30............	5,588.57	56,322	+4,478	APR. 30............	5,589.48	57,847	+6,035
MAY 31............	5,589.41	57,673	+1,351	MAY 31............	5,588.69	56,574	-1,283
JUNE 30............	5,588.50	56,210	-1,463	JUNE 30............	5,588.06	55,571	-1,003
JULY 31............	5,587.28	54,287	-1,923	JULY 31............	5,586.54	53,200	-2,371
AUG. 31............	5,583.04	47,926	-6,361	AUG. 31............	5,582.40	47,066	-6,134
SEPT. 30...........	5,581.72	46,044	-1,882	SEPT.30............	5,581.40	45,652	-1,414
WTR YR 1967......	-	-	+8,824	WTR YR 1969......	-	-	+5,077
OCT. 31............	5,581.64	45,931	-113	OCT. 31............	5,581.30	45,512	-140
NOV. 30............	5,581.76	46,128	+197	NOV. 30............	5,581.31	45,526	+14
DEC. 31............	5,582.15	46,652	+524	DEC. 31............	5,582.10	46,639	+1,113
CAL YR 1967......	-	-	+8,132	CAL YR 1969......	-	-	+5,619
JAN. 31, 1968......	5,582.77	47,537	+885	JAN. 31, 1970......	5,588.95	56,991	+10,352
FEB. 29............	5,585.52	51,587	+4,050	FEB. 28............	5,588.60	56,430	-561
MAR. 31............	5,587.52	54,662	+3,075	MAR. 31............	5,588.56	56,366	-64
APR. 30............	5,587.43	54,521	-141	APR. 30............	5,588.42	56,143	-223
MAY 31............	5,585.72	51,889	-2,632	MAY 31............	5,588.25	55,873	-270
JUNE 30............	5,583.12	48,047	-3,847	JUNE 30............	5,585.32	51,344	-4,529
JULY 31............	5,581.14	45,231	-2,811	JULY 31............	5,583.49	48,637	-2,707
AUG. 31............	5,578.48	41,614	-3,617	AUG. 31............	5,579.36	42,848	-5,789
SEPT.30............	5,577.69	40,575	-1,039	SEPT.30............	5,578.01	41,051	-1,797
WTR YR 1968......	-	-	-5,469	WTR YR 1970......	-	-	-4,601

† ELEVATION AT 2400 HOURS.

11391400 LITTLE LAST CHANCE CREEK BELOW FRENCHMAN DAM, NEAR CHILCOOT, CALIF.
(Formerly published as Little Last Chance Creek near Chilcoot)

LOCATION.--Lat 39°53'36", long 120°11'17", in NE¼ sec.33, T.24 N., R.16 E., Plumas County, Plumas National Forest, in valve house at toe of Frenchman Dam, 7.1 miles northwest of Chilcoot.

DRAINAGE AREA.--81.1 sq mi. Area at site used prior to October 1967, 84.2 sq mi.

PERIOD OF RECORD.--October 1958 to September 1970. Prior to October 1965, published as "near Chilcoot."

GAGE.--Water-stage recorder and steel-lipped Cipolletti weir. Datum of release gage is 5,480.00 ft (levels by California Department of Water Resources). October 1958 to September 1967 at site 1.9 miles downstream at different datum.

AVERAGE DISCHARGE.--12 years, 26.6 cfs (19,300 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	July 26, 1966	150	4.42	Sept.22, 1966	1.0
1967	May 23, 1967	544	5.50	Many days in October	1.9
1968	May 31, 1968	120	-	Several months	2.0
1969	Apr. 23, 1969	421	-	Several days in October	1.9
1970	Jan. 30, 1970	154	-	Several months	2.0

Period of record: Maximum discharge, 784 cfs Feb. 8, 1960 (gage height, 5.56 ft, previous site and datum), from rating curve extended above 310 cfs; no flow Oct. 23, 1959, July 25-27, Aug. 4, 1961.

REMARKS.--Beginning Nov. 7, 1961, flow regulated by Frenchman Lake (usable capacity, 53,580 acre-ft). Records since October 1967 are combined flow of release from Frenchman Dam and flow over spillway.

COOPERATION.--Records furnished by California Department of Water Resources and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	5.3	2.1	1.8	1.9	1.9	3.8	14	64	1.6	95	1.7
2	9.8	4.1	2.1	1.8	1.9	1.9	3.7	24	54	1.7	95	1.6
3	9.5	3.8	2.1	1.9	2.0	1.8	3.4	33	53	1.7	73	1.6
4	8.8	4.1	2.1	2.0	2.1	1.9	3.2	33	51	1.7	56	1.7
5	8.4	4.1	2.1	2.1	2.1	2.0	3.0	33	46	1.5	43	1.8
6	6.7	4.1	2.1	2.1	2.0	2.1	16	33	45	1.4	20	1.8
7	6.7	4.1	2.1	2.1	1.9	2.5	48	33	45	1.5	19	1.8
8	5.3	4.1	2.1	2.1	1.9	2.7	48	33	71	1.7	19	1.8
9	4.1	4.1	2.1	2.0	2.0	2.9	48	43	93	1.8	19	1.8
10	2.9	3.6	2.1	1.9	2.0	3.4	48	52	93	1.7	19	1.8
11	2.3	2.3	2.1	1.9	1.9	3.4	48	36	92	1.7	19	1.8
12	4.7	2.1	2.1	1.9	1.9	3.8	48	17	91	1.8	19	1.8
13	8.8	2.3	2.1	1.9	1.9	4.7	48	27	91	1.8	19	1.9
14	8.3	2.5	2.0	1.9	1.9	4.4	49	27	100	1.8	18	1.9
15	7.9	2.1	1.9	1.9	1.9	3.8	51	21	106	2.3	12	1.8
16	7.5	2.3	1.9	1.9	1.9	3.4	53	16	96	3.9	7.9	1.9
17	6.7	2.5	1.9	1.9	1.9	3.0	54	64	79	4.0	7.9	1.7
18	7.9	2.9	1.9	1.9	1.9	2.9	53	89	79	3.7	7.9	1.9
19	6.0	2.5	1.9	1.9	1.9	2.9	53	89	58	3.6	7.9	1.9
20	9.7	2.3	1.9	1.9	1.9	2.9	53	92	28	42	7.9	1.6
21	8.8	2.3	1.9	1.9	2.0	2.9	45	95	28	67	7.9	1.1
22	7.9	2.3	1.9	1.9	2.2	2.9	35	95	28	84	7.9	1.0
23	7.5	2.3	1.9	1.9	2.2	2.7	49	112	28	103	7.6	1.1
24	7.5	2.3	1.9	1.9	2.1	2.7	49	139	24	103	7.5	1.1
25	7.1	1.9	1.9	1.9	1.9	2.7	46	139	9.8	103	7.1	1.2
26	7.1	2.1	1.9	1.9	1.9	2.9	33	139	9.1	130	7.1	1.3
27	7.9	2.1	1.9	1.9	1.9	3.1	14	139	8.4	150	6.9	1.4
28	7.5	2.1	2.0	1.9	1.9	3.1	14	104	8.3	147	6.7	1.4
29	7.1	2.1	1.9	2.0	------	3.1	14	69	8.3	147	6.7	2.2
30	6.7	2.1	1.9	2.0	------	3.1	14	69	5.3	147	6.9	2.5
31	6.3	------	1.9	1.9	------	3.4	------	69	------	116	4.8	------
TOTAL	221.4	86.8	61.7	59.9	54.9	90.9	1,048.1	1,978	1,592.2	1,379.9	661.6	49.9
MEAN	7.14	2.89	1.99	1.93	1.96	2.93	34.9	63.8	53.1	44.5	21.3	1.66
MAX	9.8	5.3	2.1	2.1	2.2	4.7	54	139	106	150	95	2.5
MIN	2.3	1.9	1.9	1.8	1.9	1.8	3.0	14	5.3	1.4	4.8	1.0
AC-FT	439	172	122	119	109	180	2,080	3,920	3,160	2,740	1,310	99

CAL YR 1965 TOTAL 16,354.9 MEAN 44.8 MAX 374 MIN 1.9 AC-FT 32,440
WTR YR 1966 TOTAL 7,285.3 MEAN 20.0 MAX 150 MIN 1.0 AC-FT 14,450

11391400 LITTLE LAST CHANCE CREEK BELOW FRENCHMAN DAM, NEAR CHILCOOT, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	2.1	3.4	2.5	5.2	4.5	5.2	62	283	52	44	63
2	1.9	2.3	3.6	2.5	4.3	4.8	4.5	65	259	46	50	52
3	1.9	2.3	3.7	2.5	4.3	4.8	4.5	75	239	40	60	50
4	1.9	2.3	3.4	2.5	4.1	4.3	4.3	90	223	34	62	50
5	1.9	2.3	4.5	2.5	4.1	4.1	4.3	116	216	30	65	35
6	1.9	2.5	3.6	2.5	4.1	4.1	4.3	130	213	27	81	25
7	1.9	2.5	3.3	2.5	4.1	4.1	4.5	159	206	24	93	24
8	1.9	2.5	3.2	2.5	4.1	4.1	4.8	205	198	22	95	24
9	1.9	2.3	3.1	2.5	4.1	4.8	5.5	264	196	19	124	24
10	1.9	2.3	3.2	2.8	4.1	5.2	5.8	298	198	18	124	25
11	1.9	2.3	3.2	2.7	4.1	4.8	6.2	291	193	16	124	25
12	1.9	2.3	3.2	2.7	4.8	5.5	6.2	288	216	18	121	25
13	1.9	2.3	3.3	2.7	5.8	5.5	6.9	267	244	16	121	25
14	1.9	2.3	3.3	2.7	5.8	4.1	7.7	257	235	21	121	25
15	1.9	2.3	3.2	2.7	5.2	4.0	7.3	271	223	25	121	25
16	1.9	2.9	3.2	2.7	4.3	24	6.9	298	211	31	121	31
17	1.9	2.3	3.1	2.6	4.3	22	7.3	363	196	35	121	41
18	1.9	2.4	3.1	2.7	4.3	15	7.3	413	183	32	121	41
19	1.9	2.3	2.9	2.7	4.3	12	7.7	453	172	32	121	31
20	1.9	4.5	2.9	2.8	4.1	11	12	476	164	35	90	25
21	1.9	3.0	2.9	3.7	4.0	11	20	490	152	35	62	25
22	1.9	2.2	2.5	3.8	3.8	10	28	514	136	35	69	15
23	1.9	2.0	2.5	4.0	3.8	10	35	524	124	35	75	8.2
24	1.9	2.0	2.5	3.8	3.8	9.1	43	509	108	35	90	8.2
25	2.1	2.0	2.5	3.6	3.8	8.2	47	481	95	35	102	8.6
26	2.1	2.0	2.5	3.6	3.7	7.3	50	444	86	35	102	6.2
27	2.1	2.0	2.5	3.7	3.8	6.9	56	409	77	35	102	4.3
28	2.1	3.5	2.5	4.1	4.1	6.9	58	379	69	37	102	4.3
29	2.1	3.0	2.5	11	------	6.5	60	343	63	39	86	4.3
30	2.1	2.5	2.5	7.7	------	5.8	62	308	56	43	77	4.3
31	2.1	------	2.5	6.2	------	5.5	------	292	------	44	77	------
TOTAL	60.7	73.5	94.3	107.5	120.3	239.9	582.2	9,534	5,234	981	2,924	754.4
MEAN	1.96	2.45	3.04	3.47	4.30	7.74	19.4	308	174	31.6	94.3	25.1
MAX	2.3	4.5	4.5	11	5.8	24	62	524	283	52	124	63
MIN	1.9	2.0	2.5	2.5	3.7	4.0	4.3	62	56	16	44	4.3
AC-FT	120	146	187	213	239	476	1,150	18,910	10,380	1,950	5,800	1,500

CAL YR 1966 TOTAL 7,143.9 MEAN 19.6 MAX 150 MIN 1.0 AC-FT 14,170
WTR YR 1967 TOTAL 20,705.8 MEAN 56.7 MAX 524 MIN 1.9 AC-FT 41,070

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	2.0	2.0	2.0	2.0	2.0	2.0	72	118	14	80	15
2	3.4	2.0	2.0	2.0	2.0	2.0	2.0	67	116	14	80	15
3	2.0	2.0	2.0	2.0	2.0	2.0	2.0	53	115	12	80	15
4	2.0	2.0	2.0	2.0	2.0	2.0	2.0	38	114	11	80	15
5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	32	100	11	91	15
6	2.0	2.0	2.0	2.0	2.0	2.0	2.0	32	50	11	98	15
7	2.0	2.0	2.0	2.0	2.0	2.0	2.0	32	50	11	98	15
8	2.0	2.0	2.0	2.0	2.0	2.0	2.7	32	44	11	98	15
9	2.0	2.0	2.0	2.0	2.0	2.0	5.2	32	25	11	74	15
10	2.0	2.0	2.0	2.0	2.0	2.0	8.7	38	25	11	59	15
11	2.0	2.0	2.0	2.0	2.0	2.0	13	49	25	11	59	15
12	2.0	2.0	2.0	2.0	2.0	2.0	18	49	25	11	54	15
13	2.0	2.0	2.0	2.0	2.0	2.0	20	49	35	11	45	15
14	2.0	2.0	2.0	2.0	2.0	2.0	24	49	40	11	45	15
15	2.0	2.0	2.0	2.0	2.0	2.0	27	49	40	24	42	15
16	2.0	2.0	2.0	2.0	2.0	2.0	33	49	40	32	35	5.9
17	2.0	2.0	2.0	2.0	2.0	2.0	35	49	40	36	35	2.0
18	2.0	2.0	2.0	2.0	2.0	2.0	33	49	40	39	35	2.0
19	2.0	2.0	2.0	2.0	2.0	2.0	52	49	56	46	35	2.0
20	2.0	2.0	2.0	2.0	2.0	2.0	57	49	65	49	27	2.0
21	2.0	2.0	2.0	2.0	2.0	2.0	53	49	65	50	15	2.0
22	2.0	2.0	2.0	2.0	2.0	2.0	49	49	65	44	15	2.0
23	2.0	2.0	2.0	2.0	2.0	2.0	69	49	65	45	15	2.0
24	2.0	2.0	2.0	2.0	2.0	2.0	75	58	65	48	15	2.0
25	2.0	2.0	2.0	2.0	2.0	2.0	93	63	65	48	15	2.0
26	2.0	2.0	2.0	2.0	2.0	2.0	107	63	65	48	15	2.0
27	2.0	2.0	2.0	2.0	2.0	2.0	107	58	50	48	15	2.0
28	2.0	2.0	2.0	2.0	2.0	2.0	107	55	43	53	15	2.0
29	2.0	2.0	2.0	2.0	2.0	2.0	107	77	14	60	15	2.0
30	2.0	2.0	2.0	2.0	------	2.0	97	93	14	74	15	2.0
31	2.0	------	2.0	2.0	------	2.0	------	110	------	80	15	------
TOTAL	66.8	60.0	62.0	62.0	58.0	62.0	1,206.6	1,642	1,674	985	1,415	258.9
MEAN	2.15	2.00	2.00	2.00	2.00	2.00	40.2	53.0	55.8	31.8	45.6	8.63
MAX	5.4	2.0	2.0	2.0	2.0	2.0	107	110	118	80	98	15
MIN	2.0	2.0	2.0	2.0	2.0	2.0	2.0	32	14	11	15	2.0
AC-FT	132	119	123	123	115	123	2,390	3,260	3,320	1,950	2,810	514

CAL YR 1967 TOTAL 20,666.1 MEAN 56.6 MAX 524 MIN 2.0 AC-FT 40,990
WTR YR 1968 TOTAL 7,552.3 MEAN 20.6 MAX 118 MIN 2.0 AC-FT 14,980

11391400 LITTLE LAST CHANCE CREEK BELOW FRENCHMAN DAM, NEAR CHILCOOT, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	2.0	2.0	2.0	2.2	2.1	81	282	82	36	64	31
2	2.0	2.0	2.0	2.0	2.2	2.0	81	276	77	29	64	31
3	2.0	2.0	2.0	2.0	2.2	2.0	81	270	112	20	64	31
4	2.0	2.0	2.0	2.0	2.5	2.0	82	265	124	20	64	31
5	2.0	2.0	2.0	2.0	2.3	2.0	82	251	114	20	55	24
6	2.0	2.0	2.0	2.0	2.5	2.0	85	247	135	20	39	20
7	2.0	2.0	2.0	2.0	2.5	2.0	103	252	143	20	53	20
8	2.0	2.0	2.0	2.0	2.5	2.0	71	260	131	20	69	20
9	2.0	2.0	2.0	2.0	2.3	2.0	90	271	111	13	69	20
10	2.0	2.0	2.0	2.0	2.3	2.0	138	283	91	10	69	20
11	2.0	2.0	2.0	2.0	2.2	2.0	188	297	60	10	77	20
12	2.0	2.0	2.0	2.0	2.0	2.0	237	306	35	10	89	20
13	2.0	2.0	2.0	2.0	2.2	2.0	282	312	24	10	89	20
14	2.0	2.0	2.0	2.0	2.2	2.0	302	300	21	10	89	20
15	2.0	2.0	2.0	2.0	2.2	22	296	283	22	10	102	20
16	2.0	2.0	2.0	2.0	2.2	46	285	265	30	16	114	9.9
17	2.0	2.0	2.0	2.0	2.2	66	282	249	37	20	132	4.9
18	2.0	2.0	2.0	2.0	2.2	80	305	235	23	20	132	4.9
19	2.0	2.0	2.0	2.0	2.2	80	308	222	24	20	132	4.9
20	2.0	2.0	2.0	2.0	2.2	80	317	206	14	20	132	4.9
21	9.1	2.0	2.0	2.0	2.2	80	332	193	6.5	30	132	5.0
22	14	2.0	2.0	2.0	2.2	80	363	178	7.2	49	132	5.0
23	8.8	2.0	2.0	2.0	2.2	80	394	166	8.0	55	132	5.0
24	1.9	2.0	2.0	2.0	2.3	80	401	157	8.0	55	132	5.0
25	1.9	2.0	2.0	2.0	2.3	80	369	145	8.0	55	110	5.0
26	1.9	2.0	2.0	2.0	2.3	80	335	134	7.2	55	80	5.0
27	1.9	2.0	2.0	2.0	2.3	80	302	125	6.5	55	44	5.1
28	1.9	2.0	2.0	2.0	2.3	80	279	119	5.2	55	36	5.1
29	1.9	2.0	2.0	2.0	------	80	276	108	8.5	58	31	5.1
30	1.9	2.0	2.0	2.0	------	80	279	98	37	64	31	5.1
31	1.9	------	2.0	2.0	------	80	------	90	------	64	31	------
TOTAL	87.1	60.0	62.0	62.0	63.4	1,282.1	7,026	6,845	1,512.1	949	2,589	427.9
MEAN	2.81	2.00	2.00	2.00	2.26	41.4	234	221	50.4	30.6	83.5	14.3
MAX	14	2.0	2.0	2.0	2.5	80	401	312	143	64	132	31
MIN	1.9	2.0	2.0	2.0	2.0	2.0	71	90	5.2	10	31	4.9
AC-FT	173	119	123	123	126	2,540	13,940	13,580	3,000	1,880	5,140	849

CAL YR 1968 TOTAL 7,572.6 MEAN 20.7 MAX 118 MIN 1.9 AC-FT 15,020
WTR YR 1969 TOTAL 20,965.6 MEAN 57.4 MAX 401 MIN 1.9 AC-FT 41,590

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	2.0	2.0	2.0	136	72	65	42	61	12	52	8.2
2	5.1	2.0	2.0	2.0	125	68	63	41	76	12	56	15
3	5.1	2.0	2.0	2.0	121	68	61	42	113	12	68	25
4	5.1	2.0	2.0	2.0	114	66	58	42	164	12	76	25
5	5.1	2.0	2.0	2.0	106	66	58	47	163	12	76	25
6	5.1	2.0	2.0	2.0	100	65	56	52	163	12	76	25
7	5.1	2.0	2.0	2.0	96	63	52	56	162	12	76	25
8	5.1	2.0	2.0	2.0	92	66	50	60	162	12	76	25
9	5.1	2.0	2.0	2.0	90	66	50	61	138	12	76	25
10	5.1	2.0	2.0	2.0	88	66	55	65	129	10	87	25
11	5.1	2.0	2.0	2.0	86	63	63	65	129	7.0	115	29
12	5.1	2.0	2.0	2.0	84	61	61	99	102	7.0	124	35
13	5.1	2.0	2.0	2.0	88	60	61	104	61	7.1	124	35
14	5.1	2.0	2.0	2.0	88	61	65	91	50	7.3	124	35
15	5.1	2.0	2.0	2.0	86	65	65	75	50	7.3	124	35
16	3.3	2.0	2.0	2.0	86	65	65	62	50	7.3	124	35
17	2.0	2.0	2.0	2.0	94	66	61	62	41	9.7	123	35
18	2.0	2.0	2.0	2.0	88	66	58	47	28	20	123	35
19	2.0	2.0	2.0	2.0	84	66	56	41	28	27	123	35
20	2.0	2.0	2.0	2.0	79	66	53	47	28	27	123	35
21	2.0	2.0	2.0	2.0	73	66	52	50	28	39	69	23
22	2.0	2.0	2.0	2.0	72	66	48	52	65	64	45	2.0
23	2.0	2.0	2.0	2.0	70	66	48	52	94	74	45	2.0
24	2.0	2.0	2.0	2.0	70	68	44	50	105	74	53	2.0
25	2.0	2.0	2.0	2.0	70	68	41	55	111	74	59	2.0
26	2.0	2.0	2.0	10	70	70	41	65	121	74	59	2.0
27	2.0	2.0	2.0	86	72	68	45	61	84	74	59	2.0
28	2.0	2.0	2.0	136	72	68	47	54	43	68	26	2.0
29	2.0	2.0	2.0	145	------	68	45	48	24	60	8.2	3.2
30	2.0	2.0	2.0	149	------	68	44	43	16	60	8.2	4.2
31	2.0	------	2.0	145	------	65	------	38	------	47	8.2	------
TOTAL	109.8	60.0	62.0	721.0	2,500	2,046	1,631	1,769	2,589	952.7	2,385.6	611.6
MEAN	3.54	2.00	2.00	23.3	89.3	66.0	54.4	57.1	86.3	30.7	77.0	20.4
MAX	5.1	2.0	2.0	149	136	72	65	104	164	74	124	35
MIN	2.0	2.0	2.0	2.0	70	60	41	38	16	7.0	8.2	2.0
AC-FT	218	119	123	1,430	4,960	4,060	3,240	3,510	5,140	1,890	4,730	1,210

CAL YR 1969 TOTAL 20,988.3 MEAN 57.5 MAX 401 MIN 2.0 AC-FT 41,630
WTR YR 1970 TOTAL 15,437.7 MEAN 42.3 MAX 164 MIN 2.0 AC-FT 30,620

11391490 LAKE DAVIS NEAR PORTOLA, CALIF.

LOCATION.--Lat 39°53'02", long 120°28'32", in SW¼ sec.1, T.23 N., R.13 E., Plumas County, in control house on left abutment of Grizzly Valley Dam on Big Grizzly Creek, 5.3 miles north of Portola.

DRAINAGE AREA.--44.0 sq mi.

PERIOD OF RECORD.--November 1966 to September 1970.

GAGE.--Water-stage recorder in control house on Grizzly Valley Dam. Datum of gage is at mean sea level (levels by California Department of Water Resources).

EXTREMES.--Maximums and minimums (contents in acre-feet, elevation in feet) for November 1966 to September 1970 are contained in the following table:

	Maximum			Minimum		
Wtr yr	Date	Contents	Elevation	Date	Contents	Elevation
1967	June 27, 1967	53,507	5,766.37	-	-	-
1968	May 5, 1968	65,173	5,769.90	Nov. 13, 1967	48,276	5,764.66
1969	May 13, 14, 1969	92,818	5,777.05	Nov. 1, 1968	55,302	5,766.95
1970	Jan. 27, 1970	92,145	5,776.89	Sept.30, 1970	72,829	5,772.02

Period of record: Maximum contents, 92,818 acre-ft May 13, 14, 1969 (elevation, 5,777.05 ft); minimum since initial storage began, 48,276 acre-ft Nov. 13, 1967 (elevation, 5,764.66 ft).

REMARKS.--Lake is formed by an earth and rockfill dam completed in 1967. Capacity, 84,040 acre-ft between elevations 5,700 (top of low level intake) and 5,775 ft (crest of spillway). Dead storage, 108 acre-ft.

COOPERATION.--Record of contents furnished by California Department of Water Resources.

MONTHEND ELEVATION AND CONTENTS, NOVEMBER 1966 TO SEPTEMBER 1970

DATE	ELEVATION (FEET)†	CONTENTS (ACRE-FEET)	CHANGE IN CONTENTS (ACRE-FEET)
NOV. 30, 1966......	5,707.45	205	+205
DEC. 31............	5,728.27	1,656	+1,451
CAL YR 1966......	-	-	-
JAN. 31, 1967......	5,733.98	3,206	+1,550
FEB. 28............	5,742.61	8,178	+4,972
MAR. 31............	5,751.33	18,310	+10,132
APR. 30............	5,753.65	22,187	+3,877
MAY 31............	5,763.66	45,412	+23,225
JUNE 30............	5,766.37	53,507	+8,095
JULY 31............	5,765.90	51,978	-1,529
AUG. 31............	5,765.38	50,286	-1,692
SEPT.30............	5,764.96	48,940	-1,346
WTR YR 1967......	-	-	-
OCT. 31............	5,764.75	48,542	-623
NOV. 30............	5,764.68	48,335	-207
DEC. 31............	5,765.06	49,463	+1,128
CAL YR 1967......	-	-	+47,808
JAN. 31, 1968......	5,765.72	51,459	+1,996
FEB. 29............	5,767.36	56,618	+5,159
MAR. 31............	5,768.88	61,655	+5,037
APR. 30............	5,769.86	65,033	+3,378
MAY 31............	5,769.66	64,335	-698
JUNE 30............	5,769.01	62,097	-2,238
JULY 31............	5,768.26	59,571	-2,526
AUG. 31............	5,767.68	57,658	-1,913
SEPT.30............	5,767.16	55,974	-1,684
WTR YR 1968......	-	-	+6,809
OCT. 31, 1968......	5,766.97	55,366	-608
NOV. 30............	5,767.16	55,974	+608
DEC. 31............	5,767.77	57,953	+1,979
CAL YR 1968......	-	-	+8,490
JAN. 31, 1969......	5,770.87	68,619	+10,666
FEB. 28............	5,772.03	72,867	+4,248
MAR. 31............	5,772.78	75,686	+2,819
APR. 30............	5,776.39	90,056	+14,370
MAY 31............	5,776.38	90,015	-41
JUNE 30............	5,775.52	86,477	-3,538
JULY 31............	5,774.32	81,657	-4,820
AUG. 31............	5,773.48	78,370	-3,287
SEPT.30............	5,773.06	76,754	-1,616
WTR YR 1969......	-	-	+20,780
OCT. 31............	5,772.67	75,269	-1,485
NOV. 30............	5,772.52	74,702	-567
DEC. 31............	5,773.29	77,637	+2,935
CAL YR 1969......	-	-	+19,684
JAN. 31, 1970......	5,776.66	91,181	+13,544
FEB. 28............	5,775.87	87,909	-3,272
MAR. 31............	5,774.45	82,172	-5,737
APR. 30............	5,774.21	81,223	-949
MAY 31............	5,774.34	81,736	+513
JUNE 30............	5,774.00	80,397	-1,339
JULY 31............	5,773.29	77,637	-2,760
AUG. 31............	5,772.51	74,665	-2,972
SEPT.30............	5,772.02	72,829	-1,836
WTR YR 1970......	-	-	-3,925

† ELEVATION AT 2400 HOURS.

11391500 BIG GRIZZLY CREEK AT GRIZZLY VALLEY DAM, NEAR PORTOLA, CALIF.
(Formerly published as Big Grizzly Creek near Portola)

LOCATION.--Lat 39°53'02", long 120°28'32", in SW¼ sec.1, T.23 N., R.13 E., Plumas County, at Grizzly Valley Dam on Big Grizzly Creek, 5.3 miles north of Portola. Prior to October 1968, at site 1.4 miles downstream.

DRAINAGE AREA.--44.0 sq mi. Area at site used prior to October 1968, 45.5 sq mi.

PERIOD OF RECORD.--October 1925 to September 1932, October 1950 to September 1953, June 1954 to September 1967, October 1968 to September 1970. Prior to October 1952, published as Grizzly Creek near Portola. October 1952 to September 1953 and June 1954 to September 1965 published as "near Portola."

GAGE.--Water-stage recorder and Cippoletti weir. Altitude of gage is 5,700 ft (from topographic map). Supplementary water-stage recorder in control house on Grizzly Valley Dam and concrete spillway. Prior to October 1968, at site 1.4 miles downstream at different datum.

AVERAGE DISCHARGE.--22 years (1925-32, 1950-53, 1954-66), 38.2 cfs (27,680 acre-ft per year), prior to regulation by Lake Davis.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-67 and 1969-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	May 10, 1966	648	4.77	Many days	.20
1967	Nov. 21, 1966	89	2.86	do.	.10
1969	May 13, 1969	253	-	do.	0
1970	Jan. 27, 1970	233	-	do.	0

Period of record: Maximum discharge, 4,080 cfs Feb. 1, 1963 (gage height, 8.03 ft, site and datum then in use), from rating curve extended above 600 cfs on basis of slope-area measurement of peak flow; maximum gage height, 9.54 ft (former datum) Mar. 26, 1928; no flow Jan. 22 or 23, 1962. Maximum discharge since construction of Grizzly Valley Dam in 1966, 253 cfs May 13, 1969 (includes flow through spillway); no flow for many days in September and October 1969.

REMARKS.--Flow regulated by Lake Davis completed in December 1966 (usable capacity, 84,050 acre-ft). Diversions for irrigation of about 400 acres above station. Since October 1968, records are combined flow of release from Grizzly Valley Dam and flow over spillway. Water-quality records for the water years 1966-67 are published in reports of the Geological Survey.

COOPERATION.--Records furnished by California Department of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1315-A: 1930(M). WSP 1931: Drainage area (at former site).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	2.3	6.5	1.9	5.5	7.5	354	36	5.5	.90	.40	.30
2	2.1	2.5	6.5	1.9	5.5	7.5	318	35	5.5	.80	.50	.20
3	2.1	2.1	6.0	1.9	5.1	9.8	243	34	5.5	.70	.60	.40
4	1.9	2.3	6.5	2.1	5.5	12	204	36	6.0	.60	.50	.30
5	1.9	2.5	8.0	2.1	6.0	7.0	193	42	5.5	.60	.50	.40
6	1.9	2.5	8.0	2.3	6.5	8.0	179	39	5.5	.70	.50	.70
7	2.1	3.0	6.5	2.5	7.0	9.8	160	33	4.7	.50	.50	.70
8	1.9	4.7	5.5	2.7	7.5	10	137	33	2.7	.50	.30	.30
9	1.9	7.0	6.0	3.0	8.0	13	123	55	1.3	.50	.30	.20
10	1.8	4.4	6.0	3.0	7.0	18	256	213	1.6	.50	.30	.20
11	1.9	3.7	6.0	3.2	8.0	23	158	63	2.1	.60	.30	.20
12	2.1	3.7	6.5	3.2	7.5	26	113	47	2.5	.50	.20	.30
13	2.1	4.0	6.5	3.2	8.0	41	93	40	2.5	.80	.20	.30
14	2.1	12	5.1	3.2	7.5	56	88	35	2.3	.70	.20	.30
15	2.3	13	4.7	3.2	7.0	78	90	29	2.7	.70	.20	.30
16	2.5	8.0	3.5	3.2	6.5	69	92	19	3.4	.70	.20	.20
17	2.5	9.2	3.0	3.2	6.5	63	99	7.0	3.0	.70	.20	.20
18	2.5	31	3.0	3.4	6.0	64	126	7.0	2.7	.60	.20	.30
19	2.5	19	3.0	3.7	5.5	68	76	5.5	2.3	.40	.20	.30
20	2.5	15	3.0	4.7	5.5	64	64	6.0	1.9	.60	.20	.30
21	2.5	9.2	3.0	5.5	5.5	64	60	8.6	1.6	.60	.20	.30
22	2.5	9.8	2.7	6.0	5.5	68	53	5.5	1.5	.60	.20	.30
23	2.5	7.5	3.0	6.5	6.0	69	51	3.7	1.3	.40	.20	.30
24	2.5	4.4	3.0	8.0	6.5	77	51	4.7	1.4	.30	.20	.30
25	2.5	3.2	2.5	7.5	9.2	99	52	5.1	1.3	.30	.20	.30
26	2.3	5.5	1.9	7.5	8.6	126	53	6.0	1.3	.30	.20	.20
27	2.3	5.5	1.8	6.5	9.2	164	47	6.5	1.3	.40	.40	.20
28	2.3	6.0	1.8	6.5	9.2	205	43	7.0	1.0	.40	.30	.20
29	2.5	7.0	1.9	6.0	------	249	40	7.0	1.0	.50	.30	.20
30	2.5	7.5	1.9	6.0	------	280	37	7.0	.90	.50	.50	.20
31	2.3	------	1.9	6.0	------	312	------	6.5	------	.40	.30	------
TOTAL	69.6	217.5	135.2	129.6	191.3	2,367.6	3,653	882.1	81.80	17.30	9.50	8.90
MEAN	2.25	7.25	4.36	4.18	6.83	76.4	122	28.5	2.73	.56	.31	.30
MAX	2.5	31	8.0	8.0	9.2	312	354	213	6.0	.90	.60	.70
MIN	1.8	2.1	1.8	1.9	5.1	7.0	37	3.7	.90	.30	.20	.20
AC-FT	138	431	268	257	379	4,700	7,250	1,750	162	34	19	18

CAL YR 1965 TOTAL 21,007.00 MEAN 57.6 MAX 877 MIN 1.6 AC-FT 41,670
WTR YR 1966 TOTAL 7,763.40 MEAN 21.3 MAX 354 MIN .20 AC-FT 15,400

11391500 BIG GRIZZLY CREEK AT GRIZZLY VALLEY DAM, NEAR PORTOLA, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.10	1.2	2.4	5.5	5.5	5.5	5.5	9.8	5.1	9.8	.50
2	.10	.10	7.7	2.4	5.5	5.5	5.5	5.9	7.2	4.0	9.8	.50
3	.10	.10	24	3.1	5.5	5.5	5.5	6.3	6.3	4.0	9.8	.50
4	.10	.10	24	4.4	5.5	5.1	5.5	6.8	6.3	4.0	8.3	.60
5	.20	.10	27	4.4	5.5	5.1	5.5	7.7	7.7	4.0	7.0	.60
6	.20	.30	14	4.4	5.5	5.1	5.5	8.2	7.2	4.0	7.0	.50
7	.20	.20	6.6	4.4	5.5	5.1	5.5	10	6.3	4.0	3.3	.50
8	.20	.20	6.0	4.4	5.5	5.1	5.9	13	5.5	4.0	.60	.50
9	.10	.20	9.7	4.4	5.5	5.1	5.9	14	5.9	4.0	2.4	.50
10	.20	.10	10	4.4	5.5	5.1	5.9	12	5.9	4.0	4.6	.50
11	.20	.10	10	4.4	5.5	5.1	5.5	9.8	6.3	4.0	2.4	.50
12	.10	.20	7.9	4.4	6.3	5.1	5.9	9.2	7.2	2.9	8.7	.50
13	.10	.20	.60	4.4	6.8	5.1	6.3	8.7	7.2	4.0	8.2	2.3
14	.20	.20	.50	4.4	6.3	5.1	6.3	9.8	6.8	3.7	9.2	7.7
15	.20	1.0	.50	4.4	5.9	5.1	5.9	11	5.9	9.4	9.2	7.7
16	.20	2.6	.50	4.4	5.9	12	5.9	12	5.9	4.4	9.2	7.7
17	.20	2.2	.50	4.4	5.9	13	5.9	14	5.5	4.0	9.2	7.7
18	.20	1.6	.50	4.4	5.9	10	5.9	13	5.5	5.2	9.2	7.7
19	.10	.40	.50	4.4	5.9	8.2	5.9	13	5.1	4.0	9.2	7.7
20	.10	11	1.1	4.4	5.9	7.7	5.9	13	5.1	5.1	9.2	7.7
21	.10	25	3.7	17	5.5	8.2	5.5	13	6.3	10	4.3	7.7
22	.10	20	2.0	36	5.1	8.2	5.5	13	7.7	10	.50	7.7
23	.10	13	2.0	22	5.1	8.2	5.5	14	7.7	10	.50	7.7
24	.10	8.0	2.0	9.8	5.1	7.7	5.5	14	7.2	9.8	.50	7.7
25	.10	6.0	2.2	8.2	5.1	7.2	5.5	13	7.2	9.8	.50	6.3
26	.10	6.0	2.2	6.8	5.1	6.8	5.5	12	7.2	9.8	.50	4.7
27	.10	6.0	2.2	5.1	5.1	6.8	5.5	12	7.2	9.8	.50	4.7
28	.10	11	2.4	5.1	5.1	6.8	5.5	11	7.2	9.8	.50	4.7
29	.10	27	2.4	8.2	------	6.3	5.5	11	7.2	9.8	.50	5.6
30	.10	21	2.4	6.3	------	6.3	5.5	10	7.2	9.8	.50	4.7
31	.10	------	2.4	5.5	------	5.9	------	12	------	9.8	.50	------
TOTAL	4.20	164.00	178.70	212.7	156.5	207.0	170.6	337.9	200.7	196.2	155.60	123.90
MEAN	.14	5.47	5.76	6.86	5.59	6.68	5.69	10.9	6.69	6.33	5.02	4.13
MAX	.20	27	27	36	6.8	13	6.3	14	9.8	10	9.8	7.7
MIN	.10	.10	.50	2.4	5.1	5.1	5.5	5.5	5.1	2.9	.50	.50
AC-FT	8.3	325	354	422	310	411	338	670	398	389	309	246

CAL YR 1966 TOTAL 7,688.00 MEAN 21.1 MAX 354 MIN .10 AC-FT 15,250
WTR YR 1967 TOTAL 2,108.00 MEAN 5.78 MAX 36 MIN .10 AC-FT 4,180

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	3.8	4.0	4.0	4.0	4.0	14	146	140	47	14	8.8
2	4.5	4.0	4.0	4.0	4.0	4.0	14	157	133	51	13	0
3	4.5	4.0	4.0	4.0	4.0	4.0	14	166	126	49	13	0
4	4.5	4.0	4.0	4.0	4.0	4.0	14	173	120	46	15	0
5	4.5	4.0	4.0	4.0	4.0	4.0	14	176	115	43	16	0
6	4.5	4.0	4.0	4.0	4.0	4.0	14	184	108	40	16	0
7	4.5	4.0	4.0	4.0	4.0	4.0	14	192	101	43	16	0
8	4.5	4.0	4.0	4.0	4.0	4.0	14	202	100	45	16	0
9	4.5	4.0	4.0	4.0	4.0	4.0	14	212	102	44	16	0
10	4.5	4.0	4.0	4.0	4.0	4.0	14	223	97	50	16	0
11	4.5	4.0	4.0	4.0	4.0	4.0	14	235	96	56	16	0
12	4.5	4.0	4.0	4.0	4.0	4.0	14	244	94	54	16	0
13	4.5	4.0	4.0	4.0	4.0	8.9	14	248	90	52	16	0
14	4.5	4.0	4.0	4.0	4.0	14	14	251	88	51	16	0
15	3.8	4.0	4.0	4.0	4.0	14	14	249	85	50	13	0
16	3.5	4.0	4.0	4.0	4.0	14	14	246	80	50	14	0
17	3.5	4.0	4.0	4.0	4.0	14	138	241	75	50	16	0
18	3.5	4.0	4.0	4.0	4.0	14	231	235	77	50	16	0
19	3.5	4.0	4.0	4.0	4.0	14	231	232	77	50	16	0
20	3.5	4.0	4.0	4.0	4.0	14	232	225	74	50	16	0
21	3.5	4.0	4.0	4.0	4.0	14	140	218	69	50	16	0
22	3.5	4.0	4.0	4.0	4.0	14	21	212	65	50	16	0
23	3.5	4.0	4.0	4.0	4.0	14	46	205	61	50	16	0
24	3.5	4.0	4.0	4.0	4.0	14	66	198	57	50	16	0
25	3.5	4.0	4.0	4.0	4.0	14	77	189	52	50	16	0
26	3.5	4.0	4.0	4.0	4.0	14	84	180	48	50	16	0
27	3.5	4.0	4.0	4.0	4.0	14	92	176	45	50	16	0
28	3.5	4.0	4.0	4.0	4.0	14	101	168	41	50	16	0
29	3.5	4.0	4.0	4.0	------	14	117	160	39	22	16	0
30	3.5	4.0	4.0	4.0	------	14	133	154	36	13	16	0
31	3.5	------	4.0	4.0	------	14	------	146	------	14	16	------
TOTAL	122.8	119.8	124.0	124.0	112.0	308.9	1,933	6,243	2,491	1,420	482	8.8
MEAN	3.96	3.99	4.00	4.00	4.00	9.96	64.4	201	83.0	45.8	15.5	.29
MAX	4.5	4.0	4.0	4.0	4.0	14	232	251	140	56	16	8.8
MIN	3.5	3.8	4.0	4.0	4.0	4.0	14	146	36	13	13	0
AC-FT	244	238	246	246	222	613	3,830	12,380	4,940	2,820	956	17

WTR YR 1969 TOTAL 13,489.3 MEAN 37.0 MAX 251 MIN 0 AC-FT 26,760

11391500 BIG GRIZZLY CREEK AT GRIZZLY VALLEY DAM, NEAR PORTOLA, CALIF.--CONTINUED

DISCHARGF, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	8.0	8.0	8.0	188	83	103	23	20	23	14	8.0
2	0	8.0	8.0	8.0	177	83	103	23	18	15	14	8.0
3	87	8.0	8.0	8.0	168	81	103	23	18	8.0	9.4	7.5
4	220	8.0	8.0	8.0	162	80	103	23	19	8.0	8.0	7.5
5	220	8.0	8.0	8.0	154	78	103	23	19	8.0	8.0	8.0
6	99	8.0	8.0	8.0	148	76	99	23	19	8.0	8.0	8.0
7	0	8.1	8.0	8.0	141	74	96	23	20	8.0	8.0	8.0
8	0	8.1	8.0	8.0	135	76	96	23	23	8.0	8.0	8.0
9	0	8.1	8.0	8.0	130	74	96	23	23	8.0	8.0	6.2
10	0	8.1	8.0	8.0	125	73	96	23	23	8.0	8.0	6.1
11	0	8.1	8.0	8.0	121	70	96	23	23	8.0	8.0	5.7
12	0	8.1	8.0	8.0	118	68	96	23	24	8.0	8.0	8.0
13	0	8.1	8.0	8.0	121	208	73	23	24	8.0	8.0	8.0
14	0	2.7	8.0	8.0	121	299	60	23	24	8.0	8.0	8.0
15	0	0	8.0	8.0	117	291	45	23	24	8.0	8.0	8.0
16	0	3.0	8.0	8.0	113	282	23	23	16	8.0	8.0	3.1
17	0	5.0	8.0	8.0	121	263	22	23	13	12	14	1.3
18	0	8.0	8.0	8.0	117	240	23	23	4.2	14	16	2.0
19	0	8.0	8.0	8.0	112	187	23	23	5.3	14	16	2.0
20	0	8.0	8.0	8.0	106	256	23	23	8.0	14	17	2.0
21	0	8.0	8.0	16	101	252	23	23	8.0	14	18	1.5
22	0	8.0	8.0	68	97	250	23	23	4.9	14	15	1.2
23	0	8.0	8.0	102	93	198	22	23	3.0	14	15	1.3
24	0	8.0	8.0	188	91	250	22	23	4.0	14	15	2.9
25	0	8.0	8.0	205	87	250	22	23	18	14	15	3.9
26	0	8.0	8.0	206	85	250	22	23	23	14	15	6.5
27	0	8.0	8.0	230	82	169	22	23	23	14	15	6.5
28	0	8.0	8.0	226	80	103	23	23	23	14	15	6.5
29	4.8	8.1	8.0	216	------	103	23	23	23	14	13	6.5
30	8.0	8.1	8.0	208	------	103	23	23	23	14	8.0	6.5
31	8.0	------	8.0	197	------	103	------	23	------	14	8.0	------
TOTAL	646.8	219.6	248.0	2,022.0	3,411	4,973	1,707	713	520.4	358.0	356.4	166.7
MEAN	20.9	7.32	8.00	65.2	122	160	56.9	23.0	17.3	11.5	11.5	5.56
MAX	220	8.1	8.0	230	188	299	103	23	24	23	18	8.0
MIN	0	0	8.0	8.0	80	68	22	23	3.0	8.0	8.0	1.2
AC-FT	1,280	436	492	4,010	6,770	9,860	3,390	1,410	1,030	710	707	331

CAL YR 1969 TOTAL 14,237.10 MEAN 39.0 MAX 251 MIN 0 AC-FT 28,240
WTR YR 1970 TOTAL 15,341.90 MEAN 42.0 MAX 299 MIN 0 AC-FT 30,430

11392100 MIDDLE FORK FEATHER RIVER NEAR PORTOLA, CALIF.

LOCATION.--Lat 39°49'13", long 120°26'26", in SW¼NW¼ sec.29, T.23 N., R.14 E., Plumas County, on right bank 0.8 mile downstream from Big Grizzly Creek and 1.6 miles northeast of Portola.

DRAINAGE AREA.--586 sq mi.

PERIOD OF RECORD.--October 1968 to September 1970. November 1955 to September 1968 in bulletins of California Department of Water Resources.

GAGE.--*Water-stage recorder. Altitude of gage is 4,860 ft (from topographic map).*

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1969-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1969	Jan. 21, 1969	7,640	10.18	Sept. 11, 12, 1969	3.1
1970	Jan. 25, 1970	4,970	8.81	Sept. 18, 1970	5.3

Period of record: Maximum discharge, 7,640 cfs Jan. 21, 1969 (gage height, 10.18 ft); minimum daily, 3.1 cfs Sept. 11, 12, 1969.

REMARKS.--Flow partly regulated by Frenchman Lake (see station 11391370) and Lake Davis (see station 11391490). Water-quality records for the water year 1970 are published in reports of the Geological Survey.

COOPERATION.--Records furnished by California Department of Water Resources and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	23	44	99	977	194	4,430	1,010	390	124	28	19
2	9.2	25	40	88	857	216	3,320	1,030	383	132	26	8.6
3	7.2	32	34	78	783	223	2,270	1,080	372	128	25	5.5
4	5.6	36	31	74	656	223	1,730	1,180	348	118	23	4.6
5	5.6	40	32	70	453	238	1,480	1,160	331	110	23	5.6
6	6.7	40	34	68	373	233	1,600	1,050	306	106	22	6.9
7	8.6	37	37	62	346	241	1,530	928	299	100	21	6.7
8	10	34	45	59	335	252	1,160	911	315	99	24	6.2
9	11	35	49	59	293	247	996	951	356	94	20	4.5
10	12	36	54	54	298	251	908	1,010	374	94	19	3.4
11	12	35	61	49	332	243	852	1,080	405	101	20	3.1
12	19	46	53	59	479	244	927	1,120	439	95	20	3.1
13	16	44	66	110	785	248	1,010	1,130	439	91	19	6.6
14	18	47	70	468	944	269	1,100	1,160	415	89	17	6.9
15	20	59	71	1,270	741	277	1,170	1,160	384	90	17	5.6
16	20	53	56	976	572	271	1,090	1,140	351	89	17	5.1
17	19	50	90	674	582	282	1,090	1,090	336	88	19	5.3
18	18	48	89	429	540	347	1,260	1,000	345	85	17	5.7
19	17	47	86	489	497	509	1,270	922	352	83	16	5.8
20	18	53	80	2,670	432	679	1,260	864	354	82	17	6.2
21	22	57	76	6,850	381	878	1,210	823	348	80	20	6.1
22	19	53	55	5,940	358	1,050	1,040	786	336	80	21	6.0
23	18	49	43	3,520	293	1,410	1,180	739	331	82	26	5.9
24	19	48	49	1,910	264	1,870	1,590	672	324	83	28	6.2
25	19	51	72	997	200	2,340	1,770	623	296	82	69	6.6
26	20	49	58	1,820	163	2,660	1,640	584	263	80	34	7.6
27	24	44	49	2,530	184	2,920	1,370	563	228	77	34	8.1
28	22	42	54	2,760	194	3,210	1,160	535	197	75	35	8.1
29	23	42	67	1,670	------	3,410	1,050	508	166	58	30	8.3
30	23	42	90	1,470	------	3,690	1,010	477	133	31	28	7.6
31	22	------	104	1,190	------	4,250	------	423	------	30	22	------
TOTAL	490.9	1,297	1,839	38,562	13,312	33,375	43,473	27,709	9,916	2,756	757	194.9
MEAN	15.8	43.2	59.3	1,244	475	1,077	1,449	894	331	88.9	24.4	6.50
MAX	24	59	104	6,850	977	4,250	4,430	1,180	439	132	69	19
MIN	5.6	23	31	49	163	194	852	423	133	30	16	3.1
AC-FT	974	2,570	3,650	76,490	26,400	66,200	86,230	54,960	19,670	5,470	1,500	387

CAL YR 1968 TOTAL 3,626.9 MEAN 9.9 MAX 104 MIN 0 AC-FT 7,190
WTR YR 1969 TOTAL 173,681.8 MEAN 476 MAX 6,850 MIN 3.1 AC-FT 344,500

11392100 MIDDLE FORK FEATHER RIVER NEAR PORTOLA, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	43	41	130	1,090	404	259	219	90	121	7.0	13
2	9.5	43	42	99	922	431	242	194	82	96	8.8	13
3	39	43	45	103	798	483	237	174	71	78	16	11
4	238	36	46	78	719	458	224	150	68	77	9.1	11
5	236	39	46	65	653	440	208	131	71	66	8.1	11
6	158	68	46	60	595	428	198	115	71	60	7.5	11
7	16	54	44	59	542	424	130	110	65	55	7.2	11
8	16	59	49	63	493	457	163	109	65	51	7.6	10
9	17	60	53	95	457	478	188	116	68	46	7.6	9.9
10	17	59	55	183	436	466	186	128	79	39	7.8	7.9
11	18	54	58	290	418	414	194	135	95	32	7.9	7.8
12	19	50	62	534	419	382	198	148	109	28	7.9	8.4
13	19	49	64	510	457	447	191	134	118	25	7.9	11
14	20	52	61	587	556	548	193	113	123	24	8.0	10
15	24	48	59	1,070	598	533	183	119	124	21	8.3	8.9
16	31	49	54	2,390	559	525	157	140	119	20	8.6	10
17	38	54	50	3,180	597	503	180	132	110	19	9.7	5.6
18	44	54	54	3,460	1,020	456	178	113	103	19	11	5.3
19	50	53	61	2,070	1,060	393	160	105	91	17	11	6.2
20	52	52	74	1,360	759	446	156	100	86	16	11	6.9
21	47	54	127	1,250	589	448	152	98	78	17	15	7.7
22	42	56	202	2,250	541	453	155	102	76	15	15	7.9
23	38	56	310	3,670	529	406	152	105	72	13	21	8.2
24	36	54	602	3,550	484	441	148	93	57	12	25	8.3
25	36	52	785	4,580	446	430	144	82	63	11	21	13
26	36	52	1,030	2,870	413	421	138	75	79	9.7	18	9.3
27	35	52	728	2,300	384	376	148	61	88	8.2	16	11
28	35	49	398	3,020	377	298	164	72	102	7.5	16	12
29	36	45	305	2,080	------	271	211	97	112	7.3	19	12
30	43	41	205	1,790	------	256	228	106	116	6.6	19	13
31	43	------	153	1,260	------	255	------	99	------	7.2	14	------
TOTAL	1,497.3	1,530	5,909	45,006	16,911	13,171	5,465	3,675	2,651	1,024.5	377.0	291.3
MEAN	48.3	51.0	191	1,452	604	425	182	119	88.4	33.0	12.2	9.71
MAX	238	68	1,030	4,580	1,090	548	259	219	124	121	25	13
MIN	8.8	36	41	59	377	255	130	61	57	6.6	7.0	5.3
AC-FT	2,970	3,030	11,720	89,270	33,540	26,120	10,840	7,290	5,260	2,030	748	578

CAL YR 1969 TOTAL 178,991.2 MEAN 490 MAX 6,850 MIN 3.1 AC-FT 355,000
WTR YR 1970 TOTAL 97,508.1 MEAN 267 MAX 4,580 MIN 5.3 AC-FT 193,400

11392500 MIDDLE FORK FEATHER RIVER NEAR CLIO, CALIF.

LOCATION.--Lat 39°45'14", long 120°35'42", in SE¼ sec.23, T.22 N., R.12 E., Plumas County, on left bank 0.6 mile upstream from Frazier Creek, 1.0 mile northwest of Clio, and 2.2 miles southeast of Blairsden.

DRAINAGE AREA.--686 sq mi.

PERIOD OF RECORD.--October 1925 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 4,380 ft (from topographic map). Prior to July 29, 1953, at site 0.5 mile downstream at different datum.

AVERAGE DISCHARGE.--45 years, 288 cfs (208,700 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (850 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Mar. 13, 1966	0200	*2,330	9.25	Dec. 5, 1966	0200	1,930	8.71	Feb. 22, 1968	1800	*4,310	11.06
Apr. 2, 1966	0200	856	6.74	Jan. 21, 1967	1500	3,230	10.25				
				Jan. 30, 1967	1800	6,620	12.70	Jan. 21, 1969	1200	*11,000	14.74
Dec. 2, 1966	2100	1,340	7.77	Mar. 18, 1967	1200	*9,740	14.20				
				May 23, 1967	2200	1,610	8.24	Jan. 24, 1970	0030	*8,340	13.56

NOTE.--Peak discharges above base discontinued upon beginning of regulation by reservoirs above station.

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Aug. 25, 1966	9.5	1969	Oct. 1-3, 5-7, 1968	21
1967	Oct. 1-7, 1966	16	1970	Many days in August and September	27
1968	July 28, 29, 1968	14			

Period of record: Maximum discharge, 14,500 cfs Feb. 1, 1963 (gage height, 16.19 ft); minimum, 4.3 cfs Sept. 5, 1934.

REMARKS.--Records good. Diversions for irrigation of about 40,000 acres above station, of which 14,500 acres receive supplemental water of about 7,000 acre-ft annually from Little Truckee River. Since November 1966, flow partly regulated by Lake Davis (total usable capacity, 84,000 acre-ft, see station 11391490) and since November 1961, by Frenchman Lake (total usable capacity, 53,600 acre-ft, see station 11391370). Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

REVISIONS (WATER YEARS).--WSP 1445: 1928, 1930, 1932. WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	60	122	51	93	227	628	136	72	29	13	12
2	50	61	114	53	96	202	656	133	66	26	13	12
3	53	60	105	51	93	185	586	126	61	28	13	12
4	53	60	107	64	98	176	512	135	58	26	14	12
5	53	60	111	120	124	167	471	145	57	26	13	12
6	53	60	113	141	142	184	458	146	55	22	13	12
7	54	60	115	128	135	291	440	141	51	21	12	12
8	54	80	119	145	140	369	346	142	46	19	12	12
9	53	72	119	132	152	673	324	168	43	18	12	14
10	51	71	119	109	142	1,520	575	430	39	18	12	18
11	50	69	122	96	161	1,720	589	280	35	17	12	14
12	51	71	133	92	168	1,810	487	229	33	17	11	14
13	51	74	130	85	156	2,080	415	209	29	16	12	14
14	53	135	118	76	156	1,700	384	201	28	16	12	14
15	57	118	119	77	144	1,330	350	195	32	15	12	14
16	57	101	105	80	128	948	322	182	32	14	12	14
17	58	128	80	119	111	716	326	152	33	14	12	14
18	59	338	70	213	102	634	371	133	35	13	12	14
19	61	238	60	246	101	614	321	119	34	14	12	15
20	61	209	53	210	106	549	277	107	33	14	12	15
21	61	180	54	187	115	490	254	102	31	14	12	14
22	63	160	54	161	140	440	238	100	29	13	11	14
23	63	170	52	124	174	386	219	93	31	13	11	14
24	61	235	53	118	192	377	209	86	35	13	10	14
25	61	200	58	115	202	391	202	82	30	13	9.5	14
26	61	172	52	104	252	413	199	80	21	12	10	14
27	60	158	53	101	272	455	179	75	23	12	12	14
28	60	147	54	100	252	498	161	72	35	13	12	15
29	60	136	58	89	------	549	149	73	28	14	12	16
30	60	128	51	91	------	592	140	73	26	14	12	16
31	60	------	50	91	------	606	------	76	------	14	12	------
TOTAL	1,752	3,811	2,723	3,569	4,147	21,292	10,788	4,421	1,161	528	369.5	415
MEAN	56.5	127	87.8	115	148	687	360	143	38.7	17.0	11.9	13.8
MAX	63	338	133	246	272	2,080	656	430	72	29	14	18
MIN	50	60	50	51	93	167	140	72	21	12	9.5	12
AC-FT	3,480	7,560	5,400	7,080	8,230	42,230	21,400	8,770	2,300	1,050	733	823

CAL YR 1965 TOTAL 157,979.0 MEAN 433 MAX 2,840 MIN 35 AC-FT 313,400
WTR YR 1966 TOTAL 54,976.5 MEAN 151 MAX 2,080 MIN 9.5 AC-FT 109,000

11392500 MIDDLE FORK FEATHER RIVER NEAR CLIO, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	28	431	97	3,230	487	830	453	1,270	377	69	48
2	16	29	745	95	2,340	498	740	448	1,280	350	68	50
3	16	29	696	97	1,690	481	670	455	1,230	324	67	49
4	16	31	759	96	1,300	413	590	461	1,110	294	65	55
5	16	31	1,280	100	1,040	377	530	492	1,160	269	62	50
6	16	58	656	92	840	373	500	542	1,060	246	60	50
7	16	48	680	90	748	366	480	648	912	226	58	48
8	17	43	776	80	696	360	540	796	872	213	57	46
9	17	43	578	87	662	360	530	961	832	202	55	46
10	17	43	518	90	645	375	485	1,120	816	188	50	46
11	17	44	440	90	642	384	470	1,200	760	179	48	48
12	17	43	386	96	700	342	460	1,340	836	171	44	50
13	17	43	364	100	868	286	464	1,240	938	163	43	51
14	18	72	331	104	1,050	305	487	1,120	943	153	43	51
15	18	133	294	105	868	346	464	1,070	974	141	42	51
16	18	202	299	106	688	1,930	440	1,100	984	141	41	50
17	18	80	280	104	614	3,620	450	1,200	966	135	40	52
18	20	72	236	110	610	9,080	501	1,260	902	122	40	62
19	20	143	194	114	592	7,050	527	1,340	856	109	40	60
20	20	389	172	290	509	3,660	572	1,480	800	102	40	63
21	20	191	162	1,980	448	2,680	558	1,630	712	97	40	67
22	20	163	137	1,290	435	2,090	542	1,680	656	92	42	65
23	20	131	146	2,710	425	1,800	533	1,700	610	91	45	63
24	20	126	142	2,290	430	1,670	521	1,720	565	89	50	64
25	21	111	132	1,340	453	1,510	512	1,700	549	86	55	68
26	23	98	120	880	468	1,250	504	1,650	539	83	56	69
27	24	85	115	744	466	1,020	492	1,550	509	80	50	68
28	25	226	106	1,020	471	930	492	1,400	474	77	45	66
29	26	299	106	2,930	------	840	484	1,240	432	76	44	64
30	27	264	95	5,040	------	850	487	1,140	401	73	45	60
31	28	------	95	4,730	------	880	------	1,220	------	71	47	------
TOTAL	600	3,298	11,471	27,097	23,928	46,613	15,855	35,356	24,948	5,020	1,551	1,680
MEAN	19.4	110	370	874	855	1,504	529	1,141	832	162	50.0	56.0
MAX	28	389	1,280	5,040	3,230	9,080	830	1,720	1,280	377	69	69
MIN	16	28	95	80	425	286	440	448	401	71	40	46
AC-FT	1,190	6,540	22,750	53,750	47,460	92,460	31,450	70,130	49,480	9,960	3,080	3,330

CAL YR 1966 TOTAL 62,059.5 MEAN 170 MAX 2,080 MIN 9.5 AC-FT 123,100
WTR YR 1967 TOTAL 197,417.0 MEAN 541 MAX 9,080 MIN 16 AC-FT 391,600

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	74	96	76	126	715	387	120	91	43	20	18
2	133	75	96	77	144	632	382	120	84	39	18	18
3	114	76	91	76	179	560	378	128	85	35	17	18
4	82	77	130	73	157	498	373	137	87	31	17	18
5	80	77	225	76	142	473	359	137	85	28	17	20
6	78	74	140	70	133	435	319	128	90	26	17	18
7	83	73	189	71	133	410	291	120	93	25	16	18
8	85	74	133	71	136	438	277	119	100	23	16	19
9	84	75	131	73	166	486	264	114	110	23	17	20
10	83	75	123	85	216	515	258	113	98	20	17	20
11	82	74	124	89	264	489	250	113	87	19	17	20
12	81	73	118	86	338	446	242	111	82	19	16	18
13	78	73	109	74	405	443	233	124	81	18	16	18
14	77	84	100	88	446	440	232	113	85	18	16	18
15	75	77	95	347	461	443	238	113	77	18	16	19
16	75	77	76	223	455	467	240	106	74	19	17	18
17	74	78	68	157	586	511	238	104	69	19	21	20
18	74	83	69	140	663	564	227	110	65	19	19	20
19	74	104	69	132	973	564	217	141	60	18	31	20
20	74	95	69	127	1,770	502	165	156	51	17	28	21
21	74	92	70	133	3,090	440	131	150	49	17	24	21
22	75	93	71	159	4,190	408	145	142	45	16	22	21
23	76	93	71	189	3,640	380	139	137	42	16	22	21
24	76	91	72	188	2,660	361	135	133	39	15	21	21
25	75	90	73	183	2,060	385	132	131	38	15	22	21
26	75	86	75	175	1,500	382	128	124	29	15	23	20
27	75	86	77	167	1,160	364	127	123	28	15	24	21
28	74	87	77	162	941	361	120	120	26	14	22	20
29	74	92	77	153	811	368	115	113	26	14	20	20
30	74	98	78	131	------	375	119	105	26	15	20	21
31	74	------	80	130	------	380	------	98	------	17	19	------
TOTAL	2,466	2,476	3,072	3,981	27,945	14,235	6,861	3,803	2,002	646	608	586
MEAN	79.5	82.5	99.1	128	964	459	229	123	66.7	20.8	19.6	19.5
MAX	133	104	225	347	4,190	715	387	156	110	43	31	21
MIN	58	73	68	70	126	361	115	98	26	14	16	18
AC-FT	4,890	4,910	6,090	7,900	55,430	28,240	13,610	7,540	3,970	1,280	1,210	1,160

CAL YR 1967 TOTAL 190,062 MEAN 521 MAX 9,080 MIN 40 AC-FT 377,000
WTR YR 1968 TOTAL 68,681 MEAN 188 MAX 4,190 MIN 14 AC-FT 136,200

11392500 MIDDLE FORK FEATHER RIVER NEAR CLIO, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	46	85	158	1,280	278	4,880	1,290	600	190	70	48
2	21	67	83	146	1,070	280	3,670	1,300	580	196	68	46
3	21	120	75	139	936	293	2,700	1,320	576	188	66	39
4	22	72	73	135	783	294	2,170	1,380	564	181	65	36
5	21	65	70	131	624	294	2,110	1,360	548	170	62	35
6	21	65	73	127	542	300	1,960	1,300	512	163	62	35
7	21	63	75	126	479	293	1,880	1,240	488	153	61	36
8	23	60	83	123	415	293	1,560	1,240	498	145	61	37
9	25	59	91	115	415	306	1,380	1,320	560	145	60	36
10	26	59	180	111	426	298	1,300	1,380	533	140	60	35
11	33	72	170	137	482	293	1,260	1,460	580	147	58	33
12	114	210	118	269	605	293	1,340	1,500	612	142	51	33
13	60	95	114	1,320	846	288	1,430	1,500	608	137	51	32
14	47	91	146	765	1,060	301	1,450	1,450	628	134	49	33
15	43	107	202	1,430	950	306	1,450	1,400	596	131	48	36
16	43	104	149	1,210	735	319	1,380	1,380	533	130	48	36
17	43	96	148	892	675	370	1,360	1,350	508	128	48	35
18	42	106	153	636	667	473	1,620	1,300	564	126	47	35
19	41	101	149	1,640	616	616	1,590	1,200	536	122	47	37
20	40	95	133	4,990	532	807	1,600	1,120	512	121	45	38
21	40	101	118	9,990	458	1,000	1,590	1,070	491	119	46	38
22	43	101	113	7,890	415	1,190	1,480	1,040	470	116	47	38
23	40	95	104	4,580	395	1,550	1,630	1,010	455	116	48	37
24	39	105	193	2,830	359	1,910	1,870	965	449	116	50	36
25	40	98	199	2,040	328	2,330	1,980	880	419	115	52	37
26	40	96	163	3,590	280	2,690	1,840	830	383	114	78	37
27	42	89	135	3,010	266	2,980	1,610	800	350	112	56	38
28	45	84	128	3,210	283	3,290	1,400	750	315	111	57	38
29	49	83	128	2,240	------	3,570	1,330	710	275	108	56	38
30	50	85	144	1,870	------	3,940	1,300	692	226	81	53	38
31	45	------	159	1,570	------	4,670	------	652	------	72	53	------
TOTAL	1,201	2,690	3,954	57,420	16,922	36,115	54,120	36,189	14,969	4,169	1,723	1,106
MEAN	38.7	89.7	128	1,852	604	1,165	1,804	1,167	499	134	55.6	36.9
MAX	114	210	202	9,990	1,280	4,670	4,880	1,500	628	196	78	48
MIN	21	46	70	111	266	278	1,260	652	226	72	45	32
AC-FT	2,380	5,340	7,840	113,900	33,560	71,630	107,300	71,780	29,690	8,270	3,420	2,190

CAL YR 1968 TOTAL 68,512 MEAN 187 MAX 4,190 MIN 14 AC-FT 135,900
WTR YR 1969 TOTAL 230,578 MEAN 632 MAX 9,990 MIN 21 AC-FT 457,400

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	76	99	193	1,360	754	386	327	174	131	29	30
2	38	76	99	161	1,110	722	381	310	167	120	29	30
3	38	76	100	143	935	734	358	288	162	99	30	29
4	178	74	102	138	875	722	358	266	153	94	33	31
5	264	95	105	118	860	714	337	230	154	87	30	33
6	262	113	102	110	850	686	324	224	157	80	29	30
7	78	132	101	107	798	682	276	214	145	75	29	30
8	59	122	102	127	742	782	260	216	140	71	29	30
9	58	120	108	433	706	762	305	226	141	67	29	29
10	58	117	114	530	670	738	317	244	145	61	29	28
11	58	114	140	446	650	666	324	246	149	57	27	27
12	58	110	159	733	694	622	327	253	157	51	27	27
13	58	107	149	1,010	718	642	320	260	162	49	29	27
14	58	110	128	1,890	806	810	317	218	165	46	28	29
15	82	108	122	1,650	850	786	314	216	162	45	27	30
16	129	107	115	3,880	860	766	271	242	161	42	27	29
17	113	107	111	3,950	900	742	288	260	151	41	27	30
18	84	108	111	3,740	1,140	694	298	249	145	40	27	27
19	84	110	248	2,670	1,310	622	283	236	131	39	27	27
20	86	108	322	1,970	980	626	269	218	124	39	28	28
21	86	108	713	2,800	846	646	264	208	120	37	29	28
22	82	111	384	3,790	786	618	266	208	113	37	30	28
23	77	113	710	5,220	770	586	260	216	110	37	31	29
24	74	113	1,490	5,670	730	572	253	212	100	36	35	29
25	73	110	1,230	5,510	686	582	246	193	91	33	36	29
26	73	108	1,300	3,790	650	568	253	193	101	32	33	31
27	72	107	920	3,600	622	536	269	189	110	31	32	31
28	71	108	575	3,400	630	448	274	174	114	30	32	31
29	71	103	417	2,570	------	417	298	179	128	30	32	31
30	73	100	293	2,280	------	395	334	191	122	30	36	32
31	76	------	222	1,630	------	389	------	184	------	29	32	------
TOTAL	2,709	3,171	10,891	64,259	23,534	20,029	9,030	7,090	4,154	1,696	928	880
MEAN	87.4	106	351	2,073	841	646	301	229	138	54.7	29.9	29.3
MAX	264	132	1,490	5,670	1,360	810	386	327	174	131	36	33
MIN	38	74	99	107	622	389	246	174	91	29	27	27
AC-FT	5,370	6,290	21,600	127,500	46,680	39,730	17,910	14,060	8,240	3,360	1,840	1,750

CAL YR 1969 TOTAL 239,504 MEAN 656 MAX 9,990 MIN 32 AC-FT 475,100
WTR YR 1970 TOTAL 148,371 MEAN 406 MAX 5,670 MIN 27 AC-FT 294,300

11394500 MIDDLE FORK FEATHER RIVER NEAR MERRIMAC, CALIF.

LOCATION.--Lat 39°42'30", long 121°16'10", in NW¼NE¼ sec.2, T.21 N., R.6 E., Butte County, Plumas National Forest, on left bank 400 ft downstream from bridge on Milsap Bar Road, 500 ft downstream from Little North Fork, 4.5 miles southeast of Merrimac, and 20 miles northeast of Oroville.

DRAINAGE AREA.--1,062 sq mi.

PERIOD OF RECORD.--October 1951 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 1,560 ft (from topographic map). Prior to Jan. 21, 1965, on right bank at present site and datum.

AVERAGE DISCHARGE.--19 years, 1,440 cfs (1,043,000 acre-ft per year); median of yearly mean discharges, 1,300 cfs (942,000 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (7,000 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Mar. 13, 1966	1045	*4,760	10.08	Feb. 21, 1968	1200	*10,300	12.43	Dec. 21, 1969	1345	15,000	13.96
								Dec. 24, 1969	0815	11,300	12.68
Jan. 21, 1967	2015	12,300	13.23	Jan. 13, 1969	2000	8,080	11.51	Jan. 14, 1970	1200	16,800	14.58
Jan. 29, 1967	1345	*14,900	14.14	Jan. 21, 1969	0730	*30,300	17.85	Jan. 16, 1970	1600	21,200	15.79
Mar. 18, 1967	1745	12,200	13.19	Jan. 26, 1969	0800	19,900	15.47	Jan. 21, 1970	2300	27,900	17.31
May 23, 1967	0015	8,740	11.56	Apr. 1, 1969	0200	9,290	11.94	Jan. 24, 1970	0200	*29,200	17.59
				May 13, 1969	0100	7,750	11.26	Jan. 27, 1970	1000	13,600	13.28

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Sept. 7, 8, 10, 1966	107	1969	Oct. 1, 8-10, 1968	140
1967	Oct. 1, 1966	109	1970	Sept.13, 14, 25-27, 1970	156
1968	Sept. 8, 9, 17-21, 1968	134			

Period of record: Maximum discharge, 86,200 cfs Dec. 22, 1964 (gage height, 26.5 ft, from floodmarks, present site), from rating curve extended above 19,000 cfs on basis of slope-area measurement of peak flow; minimum, 92 cfs Jan. 2, 1960.

Flood of Dec. 10, 1937, reached a stage of 19.4 ft, from floodmarks (discharge, 46,100 cfs).

REMARKS.--Records good. Diversions above station for irrigation of about 1,000 acres between stations near Clio and near Merrimac. Since 1963, flow partly regulated by Antelope Lake (see station 11401120), since 1967, by Lake Davis (see station 11391490), and since 1961, by Frenchman Lake (see station 11391370). Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

REVISIONS (WATER YEARS).--WSP 1931: 1960, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	215	208	459	420	490	738	3,180	1,990	715	270	158	120
2	215	207	440	370	470	724	3,370	2,030	678	266	156	118
3	216	204	427	345	455	608	3,210	2,140	654	263	147	113
4	216	206	431	602	518	596	2,940	2,260	615	253	144	110
5	215	208	441	1,220	698	602	2,870	2,380	592	252	140	110
6	218	210	436	1,430	794	608	2,950	2,340	577	240	137	109
7	216	213	427	1,290	717	759	2,970	2,170	586	230	134	107
8	214	256	420	1,090	656	960	2,880	2,160	564	225	130	107
9	213	284	416	1,050	614	1,250	2,880	2,130	540	225	127	109
10	212	245	418	903	590	2,480	4,280	2,640	513	220	130	107
11	208	234	418	780	566	3,050	3,960	2,520	489	214	128	116
12	204	260	445	689	578	3,010	3,440	2,100	469	208	127	123
13	206	342	437	634	554	4,230	2,960	1,950	444	202	126	122
14	213	924	412	597	530	3,930	2,680	1,870	429	196	123	121
15	225	748	353	577	525	3,340	2,650	1,760	419	191	123	125
16	221	516	345	573	505	2,720	2,790	1,660	407	187	123	126
17	215	1,190	315	557	495	2,120	3,080	1,580	389	179	123	123
18	216	2,300	292	566	495	1,860	3,120	1,500	375	173	123	122
19	220	1,340	287	651	566	1,780	2,650	1,460	365	173	122	126
20	222	861	266	634	572	1,650	2,300	1,430	354	172	120	127
21	221	688	258	587	566	1,540	2,130	1,380	345	167	120	125
22	217	588	305	585	584	1,450	2,060	1,290	335	165	119	119
23	212	628	266	530	717	1,380	2,050	1,200	333	161	116	117
24	210	1,060	400	505	829	1,380	2,160	1,110	320	154	117	117
25	213	862	415	482	773	1,460	2,320	1,060	310	154	114	115
26	213	673	345	466	752	1,600	2,470	1,020	301	147	113	114
27	212	604	330	453	745	1,810	2,260	973	295	148	114	114
28	213	551	315	434	752	2,060	2,080	904	294	147	114	113
29	211	497	450	467	------	2,360	2,020	857	293	144	114	111
30	208	470	500	511	------	2,630	1,970	812	279	148	113	109
31	208	------	485	488	------	2,870	------	766	------	156	118	------
TOTAL	6,638	17,577	11,954	20,486	17,106	57,555	82,680	51,442	13,279	6,030	3,913	3,495
MEAN	214	586	386	661	611	1,857	2,756	1,659	443	195	126	117
MAX	225	2,300	500	1,430	829	4,230	4,280	2,640	715	270	158	127
MIN	204	204	258	345	455	596	1,970	766	279	144	113	107
AC-FT	13,170	34,860	23,710	40,630	33,930	114,200	164,000	102,000	26,340	11,960	7,760	6,930

CAL YR 1965 TOTAL 587,501 MEAN 1,610 MAX 9,000 MIN 204 AC-FT 1,165,000
WTR YR 1966 TOTAL 292,155 MEAN 800 MAX 4,280 MIN 107 AC-FT 579,500

11394500 MIDDLE FORK FEATHER RIVER NEAR MERRIMAC, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	144	2,430	578	6,810	1,450	2,560	1,580	4,510	2,080	437	257
2	113	144	3,820	564	5,360	1,470	2,370	1,600	4,100	1,930	425	257
3	116	144	4,150	550	4,390	1,480	2,240	1,720	3,910	1,810	418	257
4	116	146	2,820	545	3,650	1,400	2,150	1,910	3,980	1,660	403	257
5	116	148	5,150	552	3,220	1,290	2,120	2,090	4,130	1,530	389	271
6	117	250	3,620	517	2,830	1,250	2,210	2,250	4,190	1,420	377	272
7	121	280	2,700	499	2,530	1,240	2,220	2,850	4,100	1,330	364	263
8	123	223	2,390	503	2,360	1,230	2,140	3,770	4,120	1,240	359	256
9	123	190	1,990	485	2,220	1,260	2,150	4,510	4,210	1,160	350	249
10	123	181	1,870	479	2,170	1,410	2,150	4,740	4,260	1,090	338	245
11	120	185	1,760	482	2,110	1,670	2,040	4,100	4,130	1,040	331	245
12	121	282	1,580	482	2,170	1,530	1,920	3,920	4,120	982	325	245
13	120	228	1,550	483	2,440	1,380	1,910	3,830	4,250	926	315	245
14	120	219	1,650	486	2,710	1,320	1,960	3,890	4,040	882	307	245
15	121	823	1,440	491	2,450	1,300	1,920	4,440	4,090	841	303	244
16	126	2,290	1,320	499	2,190	7,260	1,800	5,230	4,190	801	294	243
17	130	717	1,250	494	1,960	9,250	1,820	5,850	4,280	796	286	243
18	130	476	1,160	481	1,900	10,800	1,840	6,190	4,330	739	285	252
19	130	664	1,060	478	1,830	9,760	1,880	6,370	4,360	693	278	280
20	132	3,550	991	743	1,730	6,650	1,850	6,820	4,340	659	274	263
21	134	2,000	937	6,530	1,570	5,460	1,840	7,300	3,930	633	269	253
22	134	1,280	890	5,510	1,530	5,050	1,790	7,600	3,560	603	267	255
23	135	848	830	4,100	1,490	5,450	1,780	7,560	3,250	581	265	257
24	137	673	829	4,240	1,480	4,890	1,780	7,420	3,050	556	265	256
25	134	577	779	3,050	1,490	4,300	1,740	7,030	2,920	533	296	253
26	134	514	744	2,310	1,460	3,780	1,720	6,600	2,820	518	317	250
27	132	478	693	2,340	1,440	3,360	1,750	6,410	2,640	502	306	249
28	138	1,070	653	4,110	1,420	3,170	1,720	6,130	2,500	487	284	249
29	142	4,440	643	11,500	------	2,940	1,650	5,770	2,380	481	271	248
30	144	2,210	628	9,770	------	2,770	1,610	5,390	2,230	472	264	241
31	144	------	594	10,000	------	2,780	------	5,030	------	453	261	------
TOTAL	3,935	25,374	52,921	73,851	68,910	108,350	58,630	149,900	112,920	29,428	9,923	7,600
MEAN	127	846	1,707	2,382	2,461	3,495	1,954	4,835	3,764	949	320	253
MAX	144	4,440	5,150	11,500	6,810	10,800	2,560	7,600	4,510	2,080	437	280
MIN	109	144	594	478	1,420	1,230	1,610	1,580	2,230	453	261	241
AC-FT	7,810	50,330	105,000	146,500	136,700	214,900	116,300	297,300	224,000	58,370	19,680	15,070

CAL YR 1966 TOTAL 338,216 MEAN 927 MAX 5,150 MIN 107 AC-FT 670,900
WTR YR 1967 TOTAL 701,742 MEAN 1,923 MAX 11,500 MIN 109 AC-FT 1,392,000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	241	241	360	345	662	2,840	2,540	1,950	936	277	169	148
2	498	245	321	335	745	2,610	2,270	1,950	892	294	169	140
3	825	245	390	308	1,110	2,440	2,080	2,030	871	294	162	140
4	397	245	540	285	1,020	2,300	2,000	2,090	843	281	154	140
5	332	245	1,120	290	928	2,320	1,970	1,980	794	269	148	140
6	320	241	626	290	892	2,160	1,850	1,800	801	257	144	137
7	297	241	698	290	906	2,020	1,780	1,660	864	253	140	140
8	294	241	584	321	920	1,980	1,730	1,610	780	241	140	134
9	285	241	440	345	1,000	1,920	1,760	1,600	731	233	140	134
10	281	241	395	662	1,270	1,850	1,890	1,580	692	229	140	137
11	280	241	375	460	1,190	1,770	2,090	1,560	656	221	140	140
12	273	241	365	370	1,200	1,730	2,150	1,480	626	217	137	137
13	268	241	298	385	1,320	1,760	2,040	1,490	596	213	137	137
14	261	308	233	737	1,300	1,800	1,960	1,380	566	213	137	140
15	252	330	273	4,500	1,270	1,760	1,970	1,280	554	209	140	140
16	249	277	330	2,610	1,300	1,970	1,960	1,220	530	201	144	140
17	249	265	312	1,450	2,650	2,030	1,830	1,220	495	197	154	134
18	248	269	345	1,060	3,030	1,920	1,700	1,240	480	193	158	134
19	245	460	316	878	3,060	1,840	1,640	1,310	465	189	209	134
20	245	435	312	773	6,980	1,750	1,580	1,500	435	181	281	134
21	245	350	290	724	8,920	1,660	1,460	1,480	415	177	298	134
22	247	316	298	717	8,670	1,610	1,380	1,410	395	177	225	137
23	249	303	312	759	8,860	1,600	1,380	1,280	375	169	201	137
24	249	294	321	780	7,000	1,580	1,380	1,190	350	165	185	137
25	249	290	340	752	5,440	1,750	1,420	1,200	330	165	173	144
26	245	281	360	724	4,460	1,950	1,500	1,190	326	162	169	144
27	245	285	445	692	3,890	1,800	1,600	1,170	308	162	162	144
28	245	298	475	656	3,450	1,820	1,650	1,140	298	162	162	140
29	245	340	440	656	3,160	2,040	1,770	1,120	290	162	158	137
30	241	365	385	608	------	2,360	1,910	1,070	285	158	154	137
31	241	------	355	674	------	2,530	------	928	------	158	148	------
TOTAL	9,041	8,615	12,654	24,436	86,603	61,470	54,240	45,108	16,979	6,479	5,178	4,151
MEAN	292	287	408	788	2,986	1,983	1,808	1,455	566	209	167	138
MAX	825	460	1,120	4,500	8,920	2,840	2,540	2,090	936	294	298	148
MIN	241	241	233	285	662	1,580	1,380	928	285	158	137	134
AC-FT	17,930	17,090	25,100	48,470	171,800	121,900	107,600	89,470	33,680	12,850	10,270	8,230

CAL YR 1967 TOTAL 649,822 MEAN 1,780 MAX 11,500 MIN 233 AC-FT 1,289,000
WTR YR 1968 TOTAL 334,954 MEAN 915 MAX 8,920 MIN 134 AC-FT 664,400

11394500 MIDDLE FORK FEATHER RIVER NEAR MERRIMAC, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	140	245	410	632	3,570	1,460	8,670	5,040	3,960	913	345	242
2	144	444	375	626	3,110	1,400	7,640	4,910	3,710	863	339	240
3	144	979	360	620	2,730	1,400	6,100	4,850	3,670	845	331	233
4	144	787	350	644	2,510	1,350	5,060	4,540	3,640	814	320	217
5	144	470	345	680	2,400	1,320	5,550	4,660	3,470	790	311	202
6	144	420	345	698	2,190	1,320	5,060	5,370	3,280	760	305	195
7	144	330	335	710	1,940	1,260	4,590	5,960	2,910	736	298	196
8	140	307	345	717	1,810	1,250	4,070	6,280	2,690	701	294	201
9	140	285	374	674	2,080	1,270	3,760	6,970	2,700	717	294	198
10	140	281	1,540	632	2,240	1,220	3,610	7,210	2,440	675	289	195
11	165	301	1,690	766	2,590	1,200	3,780	7,280	2,410	656	284	197
12	746	1,330	944	1,170	3,060	1,180	4,230	7,440	2,390	645	281	197
13	658	727	745	5,020	2,730	1,160	4,660	7,250	2,360	628	278	192
14	475	510	857	5,150	2,890	1,160	4,490	6,770	2,410	604	272	189
15	340	490	1,460	3,340	3,180	1,180	4,140	6,120	2,440	585	265	189
16	269	465	1,400	2,920	2,730	1,240	4,010	6,010	2,220	564	264	193
17	249	445	928	2,210	2,410	1,380	4,080	6,160	2,040	550	264	193
18	229	632	787	1,860	2,320	1,620	4,990	6,400	2,070	531	260	192
19	217	780	731	7,310	2,140	1,720	4,950	6,000	2,060	521	253	197
20	213	602	644	19,000	2,010	1,950	5,100	5,600	1,850	505	249	197
21	205	520	554	26,700	1,810	2,130	5,530	5,300	1,750	490	248	203
22	201	485	536	15,800	1,680	2,300	6,150	5,500	1,600	478	245	204
23	198	470	620	9,940	1,700	2,730	6,550	5,800	1,550	475	243	198
24	193	480	913	7,050	1,640	3,190	5,790	5,700	1,490	474	241	197
25	189	480	1,450	8,150	1,540	3,620	5,400	5,400	1,400	466	241	196
26	185	445	1,080	15,200	1,430	4,200	4,970	5,000	1,300	451	243	197
27	185	420	850	9,120	1,330	4,660	4,550	4,600	1,210	439	290	194
28	185	395	787	7,710	1,480	5,530	4,360	4,300	1,130	421	260	189
29	261	370	724	5,860	------	6,230	4,850	4,050	1,060	421	255	189
30	425	405	668	4,800	------	7,050	5,210	4,160	992	405	257	191
31	298	------	644	3,980	------	8,150	------	4,190	------	369	249	------
TOTAL	7,510	15,300	23,791	169,689	63,250	76,830	151,900	174,820	68,202	18,492	8,568	6,013
MEAN	242	510	767	5,474	2,259	2,478	5,063	5,639	2,273	597	276	200
MAX	746	1,330	1,690	26,700	3,570	8,150	8,670	7,440	3,960	913	345	242
MIN	140	245	335	620	1,330	1,160	3,610	4,050	992	369	241	189
AC-FT	14,900	30,350	47,190	336,600	125,500	152,400	301,300	346,800	135,300	36,680	16,990	11,930

CAL YR 1968 TOTAL 351,245 MEAN 960 MAX 8,920 MIN 134 AC-FT 696,700
WTR YR 1969 TOTAL 784,365 MEAN 2,149 MAX 26,700 MIN 140 AC-FT 1,556,000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	194	266	258	1,270	4,900	4,160	1,510	1,270	1,120	523	219	176
2	190	262	254	1,150	4,290	3,350	1,490	1,300	1,100	514	214	173
3	187	262	254	1,040	3,850	2,790	1,450	1,360	1,100	487	211	162
4	187	262	254	993	3,530	2,740	1,430	1,470	1,070	448	201	166
5	302	442	252	918	3,210	2,550	1,410	1,560	1,030	432	202	170
6	430	481	261	859	2,980	2,470	1,420	1,630	1,010	405	197	184
7	415	474	258	869	2,780	2,430	1,420	1,510	946	387	196	180
8	290	503	275	909	2,600	2,900	1,350	1,470	888	376	194	176
9	258	400	289	2,120	2,550	2,770	1,370	1,580	911	369	196	173
10	236	358	366	4,950	2,360	2,620	1,440	1,790	964	361	194	166
11	226	345	590	2,990	2,280	2,420	1,530	1,540	885	352	189	162
12	218	342	1,450	3,400	2,700	2,270	1,460	1,450	832	339	184	159
13	215	338	1,570	7,310	2,920	2,250	1,440	1,420	816	324	182	156
14	222	330	845	14,200	2,770	2,690	1,390	1,400	845	319	180	156
15	322	325	637	9,140	2,750	2,840	1,350	1,450	806	307	180	159
16	756	333	548	16,300	2,910	2,680	1,310	1,590	769	299	176	166
17	804	326	492	15,900	3,460	2,600	1,280	1,800	741	289	176	166
18	470	306	470	11,700	3,150	2,420	1,280	1,880	703	285	176	162
19	362	304	3,110	9,170	3,390	2,260	1,320	1,750	676	277	176	162
20	330	302	5,640	8,520	2,960	2,110	1,240	1,590	647	275	176	159
21	318	298	11,100	16,800	2,580	2,110	1,190	1,480	635	273	176	159
22	310	297	4,920	20,600	2,380	2,080	1,160	1,470	609	262	176	162
23	298	293	3,460	17,100	2,280	2,080	1,130	1,490	581	262	176	162
24	290	289	9,370	20,300	2,200	2,030	1,100	1,470	562	257	180	159
25	278	286	7,400	13,500	2,090	2,070	1,100	1,460	529	248	176	156
26	278	282	5,220	10,900	2,030	2,030	1,190	1,460	518	243	180	156
27	274	278	3,740	11,800	1,980	1,950	1,190	1,440	557	238	180	156
28	270	277	2,650	9,380	2,360	1,820	1,150	1,330	559	234	180	162
29	266	271	2,010	7,830	------	1,720	1,140	1,240	586	230	173	159
30	262	266	1,660	6,800	------	1,640	1,210	1,210	558	228	173	162
31	258	------	1,410	5,640	------	1,570	------	1,170	------	222	173	------
TOTAL	9,716	9,798	71,013	254,358	80,240	74,420	39,450	46,030	23,553	10,065	5,762	4,926
MEAN	313	327	2,291	8,205	2,866	2,401	1,315	1,485	785	325	186	164
MAX	804	503	11,100	20,600	4,900	4,160	1,530	1,880	1,120	523	219	184
MIN	187	262	252	859	1,980	1,570	1,100	1,170	518	222	173	156
AC-FT	19,270	19,430	140,900	504,500	159,200	147,600	78,250	91,300	46,720	19,960	11,430	9,770

CAL YR 1969 TOTAL 828,291 MEAN 2,269 MAX 26,700 MIN 187 AC-FT 1,643,000
WTR YR 1970 TOTAL 629,331 MEAN 1,724 MAX 20,600 MIN 156 AC-FT 1,248,000

11394620 FALL RIVER NEAR FEATHER FALLS, CALIF.

LOCATION.--Lat 39°40'00", long 121°08'01", in NW¼ sec.19, T.21 N., R.8 E., Plumas County, on right bank 0.5 mile downstream from Coyote Creek and 8 miles northeast of Feather Falls.

DRAINAGE AREA.--9.89 sq mi.

PERIOD OF RECORD.--July 1963 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 4,000 ft (from topographic map).

AVERAGE DISCHARGE.--7 years, 44.1 cfs (31,950 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (150 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Nov. 17, 1965	-	328	3.71	May 21, 1967	1715	324	3.93	Dec. 21, 1969	1100	662	4.95
Apr. 10, 1966	0045	*343	3.81					Dec. 24, 1969	0300	480	4.40
				Jan. 15, 1968	0400	175	3.26	Jan. 9, 1970	-	-	-
Nov. 16, 1966	0200	192	3.28	Feb. 21, 1968	0600	*477	4.43	Jan. 14, 1970	-	-	-
Nov. 20, 1966	0245	211	3.36					Jan. 16, 1970	-	-	-
Nov. 29, 1966	0145	352	3.85	Jan. 13, 1969	1730	228	3.53	Jan. 21, 1970	2100	*1,400	a6.61
Dec. 2, 1966	2000	476	4.22	Jan. 20, 1969	2100	*1,100	6.01	Jan. 23, 1970	-	-	-
Jan. 21, 1967	1300	352	3.89	Jan. 26, 1969	0330	984	5.76	Jan. 27, 1970	-	-	-
Jan. 29, 1967	0745	*572	4.53	Apr. 5, 1969	0900	161	3.10				
Mar. 16, 1967	1715	458	4.22	Apr. 23, 1969	1000	212	3.36				
May 9, 1967	2330	180	3.28	May 12, 1969	1900	305	3.78				

a From floodmarks.

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Sept.24, 1966	1.8	1969	Oct. 1-10, 1968	1.7
1967	Oct. 10, Nov. 3, 1966	1.7	1970	Aug. 23-25, 1970	1.4
1968	Sept.29, 30, 1968	1.7			

Period of record: Maximum discharge, 3,770 cfs Dec. 22, 1964 (gage height, 10.00 ft), from rating curve extended above 200 cfs on basis of slope-area measurement of peak flow; minimum daily, 1.4 cfs Aug. 23-25, 1970.

REMARKS.--Records good except those for periods of no gage-height record Jan. 6-28, Apr. 16 to May 19, 1970, which are poor. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	2.2	11	8.9	11	14	156	78	14	5.5	3.6	2.3
2	2.7	2.2	11	8.0	10	14	164	76	13	5.5	3.4	2.1
3	2.7	2.2	11	8.2	10	14	163	75	13	5.4	3.4	2.1
4	2.6	2.2	11	9.3	13	13	156	75	12	5.3	3.3	2.1
5	2.9	2.2	11	20	18	13	154	73	12	5.1	3.0	2.0
6	2.8	2.2	11	33	16	14	156	69	12	4.9	3.0	2.0
7	2.6	2.3	11	31	14	16	157	64	12	4.7	2.8	2.0
8	2.5	3.7	11	23	14	16	151	60	11	4.7	2.8	2.1
9	2.5	2.8	11	20	13	25	176	58	11	4.9	2.8	2.1
10	2.5	2.5	10	18	13	53	276	61	11	4.7	3.0	2.1
11	2.5	2.5	11	16	13	50	236	53	10	4.6	3.0	2.0
12	2.5	3.9	11	16	12	49	195	48	9.6	4.5	3.0	2.2
13	2.5	7.9	10	15	12	101	163	44	9.1	4.4	2.8	2.2
14	2.9	24	9.8	15	12	100	146	41	8.8	4.1	2.8	2.4
15	3.2	15	9.6	15	12	94	142	37	8.6	4.0	2.6	2.3
16	2.8	12	9.4	15	12	83	149	34	8.3	3.9	2.6	2.2
17	2.7	60	9.2	15	12	69	162	32	8.0	3.6	2.6	1.9
18	2.7	80	9.0	14	12	62	149	29	7.7	3.5	2.3	2.0
19	2.7	45	8.8	14	13	58	125	27	7.3	3.4	2.3	2.1
20	2.5	20	8.8	13	12	53	110	26	7.2	3.3	2.2	2.0
21	2.5	15	8.9	13	12	48	102	24	7.1	3.2	2.2	1.9
22	2.5	14	8.3	13	13	46	97	23	7.1	3.1	2.0	1.9
23	2.4	18	8.3	12	17	47	97	21	7.0	2.9	2.0	1.9
24	2.4	30	8.8	12	17	52	100	19	6.7	2.9	1.9	1.8
25	2.4	18	9.6	12	15	57	105	18	6.4	2.8	1.9	1.9
26	2.4	15	9.4	12	15	66	104	17	6.3	2.7	2.0	1.9
27	2.4	13	8.4	12	14	79	96	16	6.1	3.4	2.3	1.9
28	2.4	12	9.6	11	15	93	90	16	6.0	3.6	2.3	1.9
29	2.4	12	11	14	------	107	84	15	5.8	3.5	2.4	1.9
30	2.3	11	11	19	------	122	81	15	5.7	3.8	2.4	1.9
31	2.2	------	10	11	------	138	------	15	------	3.9	2.4	------
TOTAL	79.8	452.8	308.9	468.4	372	1,766	4,242	1,259	269.8	125.8	81.1	61.1
MEAN	2.57	15.1	9.96	15.1	13.3	57.0	141	40.6	8.99	4.06	2.62	2.04
MAX	3.2	80	11	33	18	138	276	78	14	5.5	3.6	2.4
MIN	2.2	2.2	8.3	8.0	10	13	81	15	5.7	2.7	1.9	1.8
AC-FT	158	898	613	929	738	3,500	8,410	2,500	535	250	161	121

CAL YR 1965 TOTAL 15,234.5 MEAN 41.7 MAX 375 MIN 2.2 AC-FT 30,220
WTR YR 1966 TOTAL 9,486.7 MEAN 26.0 MAX 276 MIN 1.8 AC-FT 18,820

11394620 FALL RIVER NEAR FEATHER FALLS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	1.9	130	22	200	35	53	29	135	30	7.0	3.7
2	2.0	1.9	233	21	151	34	48	32	121	27	7.0	3.7
3	2.0	1.7	219	20	122	34	46	37	113	25	6.7	3.7
4	2.0	1.8	134	19	106	32	45	44	114	23	6.7	3.5
5	2.0	1.9	199	19	94	31	43	48	118	22	6.3	3.5
6	2.0	5.2	154	17	86	30	41	56	119	21	6.3	3.5
7	2.0	3.9	116	17	79	31	41	79	121	20	6.3	3.5
8	2.0	3.0	89	17	73	32	43	109	121	19	6.0	3.5
9	2.0	2.4	74	16	69	34	47	137	121	18	6.0	3.5
10	1.7	2.5	75	16	67	38	47	150	122	17	6.0	3.5
11	1.8	2.9	64	16	65	38	44	119	116	16	5.8	3.5
12	1.9	5.0	58	16	68	36	43	105	124	15	5.8	3.5
13	1.9	3.4	59	15	72	34	43	106	117	14	5.5	3.3
14	2.0	4.7	56	15	71	32	42	118	108	14	5.5	3.3
15	2.0	29	51	15	66	35	40	148	103	14	5.3	3.3
16	2.1	61	49	15	62	319	38	190	101	13	5.3	3.3
17	2.1	16	45	14	58	307	37	222	98	13	5.0	3.3
18	2.0	12	42	14	56	211	38	233	95	12	5.0	3.3
19	2.0	32	40	14	53	150	36	243	91	12	5.0	3.2
20	2.1	109	39	22	49	126	33	262	82	11	4.7	3.0
21	2.1	49	36	179	46	128	32	280	74	11	4.5	3.0
22	2.0	30	34	145	44	126	31	282	66	10	4.5	3.0
23	2.0	22	32	89	43	160	32	278	60	9.9	4.5	3.0
24	1.9	18	31	73	42	135	30	268	55	9.5	4.2	3.0
25	1.9	16	30	59	40	110	29	246	50	9.5	4.2	3.0
26	1.9	14	28	54	37	94	28	226	46	9.2	4.2	2.6
27	1.9	13	26	67	36	82	30	211	42	8.8	4.2	2.4
28	1.9	77	25	137	35	70	27	194	38	8.8	4.0	2.6
29	1.9	239	24	442	------	66	27	182	35	8.1	4.0	2.6
30	1.9	101	23	369	------	62	27	167	32	8.1	3.7	2.6
31	1.9	------	23	293	------	59	------	153	------	7.4	3.7	------
TOTAL	60.8	880.2	2,238	2,247	1,990	2,711	1,141	4,954	2,738	456.3	162.9	96.4
MEAN	1.96	29.3	72.2	72.5	71.1	87.5	38.0	160	91.3	14.7	5.25	3.21
MAX	2.1	239	233	442	200	319	53	282	135	30	7.0	3.7
MIN	1.7	1.7	23	14	35	30	27	29	32	7.4	3.7	2.4
AC-FT	121	1,750	4,440	4,460	3,950	5,380	2,260	9,830	5,430	905	323	191

CAL YR 1966 TOTAL 11,824.2 MEAN 32.4 MAX 276 MIN 1.7 AC-FT 23,450
WTR YR 1967 TOTAL 19,675.6 MEAN 53.9 MAX 442 MIN 1.7 AC-FT 39,030

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	3.2	4.5	7.0	24	106	94	62	17	5.8	3.2	2.6
2	21	3.0	3.7	6.3	26	98	84	60	16	5.8	2.8	2.6
3	13	3.0	4.2	6.3	27	93	77	59	16	5.8	2.6	2.6
4	5.5	3.2	9.1	5.8	26	89	75	58	14	5.5	2.6	2.6
5	5.5	3.2	16	5.3	25	89	74	54	15	5.3	2.4	2.6
6	5.3	3.2	7.7	5.3	24	83	72	50	16	5.3	2.4	2.6
7	4.7	3.2	7.0	5.8	23	78	70	47	15	5.0	2.4	2.6
8	4.5	3.2	6.0	5.3	23	74	71	44	14	5.0	2.3	2.3
9	4.2	3.2	5.5	5.3	25	68	78	42	13	4.7	2.3	2.3
10	4.2	3.2	5.0	5.2	26	63	82	40	12	4.7	2.3	2.3
11	4.2	3.2	4.8	5.2	26	59	89	38	11	4.5	2.3	2.3
12	4.0	3.2	4.5	5.5	26	56	91	36	11	4.2	2.3	2.3
13	4.0	3.2	4.0	5.5	26	55	88	36	10	4.2	2.3	2.3
14	3.7	5.8	4.2	19	26	51	86	35	9.9	4.2	2.4	2.4
15	3.5	4.5	4.2	158	25	48	83	34	9.5	4.0	2.6	2.4
16	3.5	4.0	4.2	78	29	49	80	31	9.2	4.0	2.6	2.3
17	3.5	3.7	4.2	46	118	45	73	29	8.8	4.0	3.0	1.9
18	3.5	4.2	4.2	34	114	41	69	29	8.8	3.7	3.0	1.9
19	3.5	14	4.2	29	140	40	66	28	8.1	3.7	5.0	1.9
20	3.5	6.7	4.2	25	263	39	63	29	7.7	3.5	5.3	1.9
21	3.5	5.3	4.2	23	369	39	58	28	7.7	3.5	5.5	1.9
22	3.5	4.5	4.0	23	290	39	57	29	7.4	3.3	4.0	1.9
23	3.5	4.2	4.2	24	302	40	54	26	7.4	3.3	3.5	1.9
24	3.5	4.0	4.7	24	234	41	55	25	7.0	3.2	3.2	1.9
25	3.5	3.7	5.5	24	182	47	55	26	6.7	3.2	3.0	1.9
26	3.3	3.7	7.0	23	152	50	58	23	6.3	3.2	2.8	1.8
27	3.3	3.7	10	22	138	52	60	22	6.3	3.0	2.8	1.8
28	3.3	4.0	12	20	126	57	61	20	6.0	3.0	2.8	1.8
29	3.3	4.0	10	18	115	69	63	19	6.0	3.0	2.6	1.7
30	3.3	4.2	8.8	20	------	82	63	18	6.0	3.2	2.8	1.7
31	3.2	------	7.7	22	------	93	------	18	------	3.0	2.6	------
TOTAL	144.8	125.4	189.5	705.8	2,950	1,933	2,149	1,095	308.8	127.8	91.7	65.0
MEAN	4.67	4.18	6.11	22.8	102	62.4	71.6	35.3	10.3	4.12	2.96	2.17
MAX	21	14	16	158	369	106	94	62	17	5.8	5.5	2.6
MIN	2.8	3.0	3.7	5.2	23	39	54	18	6.0	3.0	2.3	1.7
AC-FT	287	249	376	1,400	5,850	3,830	4,260	2,170	613	253	182	129

CAL YR 1967 TOTAL 16,956.3 MEAN 46.5 MAX 442 MIN 2.4 AC-FT 33,630
WTR YR 1968 TOTAL 9,885.8 MEAN 27.0 MAX 369 MIN 1.7 AC-FT 19,610

11394620 FALL RIVER NEAR FEATHER FALLS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	3.3	8.8	13	102	29	147	172	101	16	5.6	2.2
2	1.7	13	8.1	13	85	28	138	170	91	15	5.6	2.2
3	1.7	26	7.7	13	74	27	116	165	85	15	5.3	2.2
4	1.7	16	7.4	14	66	26	107	152	77	14	5.0	2.2
5	1.7	10	7.4	14	64	26	140	167	70	14	5.0	2.2
6	1.7	8.1	7.4	14	58	25	118	200	62	14	4.7	2.1
7	1.7	6.7	7.4	16	53	25	104	226	56	13	4.7	2.1
8	1.7	6.3	8.1	17	49	24	95	246	51	13	4.7	2.1
9	1.7	6.0	9.9	17	56	24	91	262	49	12	4.4	2.1
10	1.7	5.8	47	17	58	24	96	272	44	12	4.2	2.1
11	3.4	7.8	40	19	63	24	108	275	45	11	4.2	2.1
12	27	31	29	26	57	23	126	278	40	11	3.9	2.1
13	8.5	14	25	113	51	23	133	268	37	11	3.9	2.1
14	6.7	12	25	141	50	22	126	244	35	10	3.7	2.1
15	5.5	11	37	88	51	23	120	226	33	9.8	3.7	2.1
16	4.5	9.9	31	68	45	24	120	220	31	9.5	3.7	2.1
17	4.0	9.9	25	57	42	26	129	226	28	9.5	3.4	2.1
18	3.5	23	23	58	41	28	150	228	29	8.8	3.4	2.1
19	3.3	21	21	374	40	28	154	220	28	8.5	3.4	2.2
20	3.2	18	19	878	38	28	161	204	25	8.2	3.4	2.2
21	3.2	15	18	889	36	29	178	194	23	7.9	3.4	2.2
22	3.2	13	17	460	35	31	196	192	22	7.6	3.2	2.2
23	3.0	12	17	275	35	34	202	192	21	7.3	3.2	2.1
24	3.0	12	19	214	34	36	167	180	20	7.0	2.9	2.1
25	3.0	11	19	399	33	40	143	167	20	7.0	2.9	2.0
26	3.0	10	17	625	31	45	129	156	20	7.0	2.7	2.0
27	3.0	9.5	16	335	30	53	123	141	18	6.7	2.7	2.0
28	2.8	9.2	16	240	30	63	131	128	18	6.4	2.5	2.0
29	4.4	8.8	14	180	------	78	161	120	17	6.1	2.5	2.0
30	5.5	9.2	14	143	------	98	174	116	16	5.8	2.3	2.0
31	4.0	------	13	120	------	128	------	112	------	5.8	2.3	------
TOTAL	124.7	368.5	574.2	5,850	1,407	1,142	4,083	6,119	1,212	309.9	116.5	63.3
MEAN	4.02	12.3	18.5	189	50.3	36.8	136	197	40.4	10.0	3.76	2.11
MAX	27	31	47	889	102	128	202	278	101	16	5.6	2.2
MIN	1.7	3.3	7.4	13	30	22	91	112	16	5.8	2.3	2.0
AC-FT	247	731	1,140	11,600	2,790	2,270	8,100	12,140	2,400	615	231	126

CAL YR 1968 TOTAL 10,493.5 MEAN 28.7 MAX 369 MIN 1.7 AC-FT 20,810
WTR YR 1969 TOTAL 21,370.1 MEAN 58.5 MAX 889 MIN 1.7 AC-FT 42,390

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	2.8	3.2	42	112	126	44	26	12	7.1	2.8	2.3
2	2.0	2.8	3.2	38	95	104	43	25	12	6.8	2.7	2.2
3	2.0	2.8	2.9	35	87	88	42	24	11	6.5	2.6	2.1
4	1.8	2.7	3.0	33	78	81	40	23	11	6.2	2.6	2.3
5	1.8	9.8	3.0	32	73	75	39	23	11	6.0	2.5	2.8
6	1.8	7.3	3.0	29	68	70	39	22	10	5.7	2.5	2.6
7	1.8	9.5	3.0	27	63	71	37	22	10	5.6	2.4	2.4
8	2.3	9.5	3.2	31	59	78	36	22	11	5.4	2.3	2.3
9	2.5	7.0	3.5	130	55	73	35	24	13	5.4	2.3	2.2
10	2.3	6.1	5.0	190	52	69	35	26	13	5.2	2.2	2.0
11	2.2	5.8	14	120	52	65	37	25	11	5.1	2.1	1.9
12	2.2	5.6	30	150	68	64	33	24	10	5.0	2.0	1.9
13	2.2	5.6	26	400	66	65	33	24	13	4.7	1.9	2.1
14	2.5	5.3	20	780	62	75	32	24	16	4.6	1.8	2.3
15	6.0	5.0	16	400	59	75	31	23	12	4.4	1.8	2.3
16	10	5.0	14	860	64	76	31	22	11	4.2	1.8	2.3
17	8.0	5.0	12	740	67	74	30	22	10	4.1	1.8	2.2
18	4.5	5.0	13	400	61	70	29	21	9.7	4.0	1.8	2.1
19	3.5	4.5	115	320	58	66	34	20	9.4	3.8	1.7	2.2
20	3.0	4.2	228	290	56	63	30	19	8.6	3.7	1.7	2.3
21	3.0	4.2	438	850	54	60	30	19	8.6	3.6	1.7	2.3
22	2.9	4.0	204	860	52	60	28	18	8.3	3.5	1.7	2.1
23	2.9	3.7	250	640	50	59	27	18	8.0	3.4	1.4	2.0
24	2.8	3.5	400	800	49	60	26	16	7.7	3.3	1.4	2.0
25	2.8	3.4	310	340	48	59	26	16	7.4	3.2	1.4	1.8
26	2.8	3.4	250	270	48	57	27	16	7.7	3.1	1.7	1.9
27	2.8	3.4	120	360	47	54	26	15	7.7	3.1	2.2	1.9
28	2.8	3.2	80	230	73	53	25	14	8.0	3.0	2.2	1.9
29	2.8	3.4	65	180	------	52	25	14	8.6	2.9	2.3	1.8
30	2.8	3.2	54	155	------	49	27	13	7.4	2.8	2.3	1.8
31	2.8	------	46	127	------	46	------	13	------	2.8	2.3	------
TOTAL	95.6	146.7	2,738.0	9,859	1,776	2,137	977	633	304.1	138.2	63.9	64.3
MEAN	3.08	4.89	88.3	318	63.4	68.9	32.6	20.4	10.1	4.46	2.06	2.14
MAX	10	9.8	438	860	112	126	44	26	16	7.1	2.8	2.8
MIN	1.8	2.7	2.9	27	47	46	25	13	7.4	2.8	1.4	1.8
AC-FT	190	291	5,430	19,560	3,520	4,240	1,940	1,260	603	274	127	128

CAL YR 1969 TOTAL 23,283.0 MEAN 63.8 MAX 889 MIN 1.8 AC-FT 46,180
WTR YR 1970 TOTAL 18,932.8 MEAN 51.9 MAX 860 MIN 1.4 AC-FT 37,550

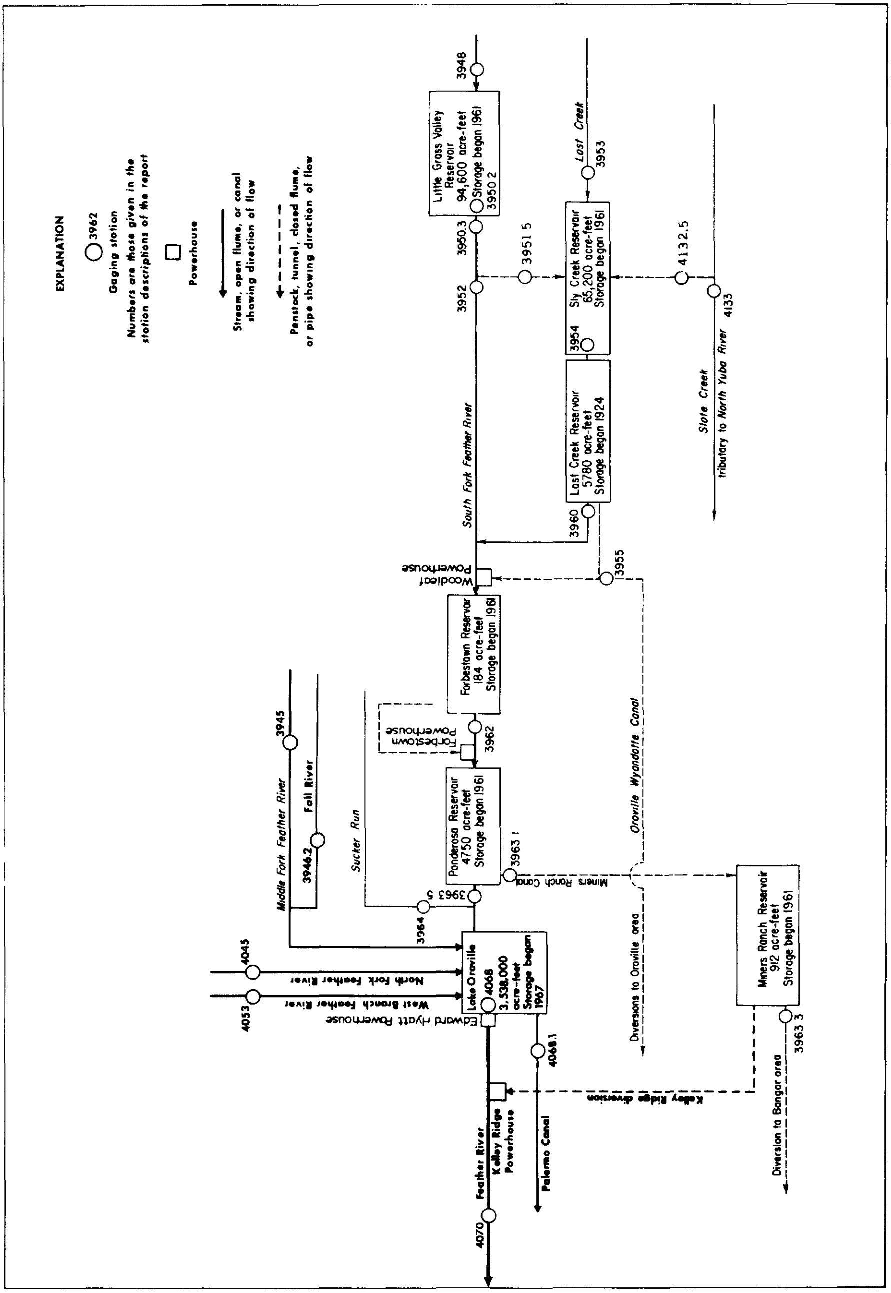

EXPLANATION
3962
Gaging station
Numbers are those given in the station descriptions of the report
Powerhouse
Stream, open flume, or canal showing direction of flow
Penstock, tunnel, closed flume, or pipe showing direction of flow
3948
Little Grass Valley Reservoir
94,600 acre-feet
Storage began 1961
3950.2
3950.3
3951.5
3952
Lost Creek
3953
Sly Creek Reservoir
65,200 acre-feet
Storage began 1961
3954
4132.5
4133
Slate Creek
tributary to North Yuba River
Lost Creek Reservoir
5780 acre-feet
Storage began 1924
3960
South Fork Feather River
Woodleaf Powerhouse
3955
Forbestown Reservoir
184 acre-feet
Storage began 1961
Forbestown Powerhouse
3962
Oroville Wyandotte Canal
Ponderosa Reservoir
4750 acre-feet
Storage began 1961
3963.1
Miners Ranch Canal
3963.5
Sucker Run
3945
Middle Fork Feather River
Fall River
3946.2
3964
Diversions to Oroville area
Miners Ranch Reservoir
912 acre-feet
Storage began 1961
3963.3
4045
North Fork Feather River
4053
West Branch Feather River
Lake Oroville
4068
3,538,000 acre-feet
Storage began 1967
Edward Hyatt Powerhouse
4068.1
Kelley Ridge diversion
Diversion to Bangor area
Feather River
Kelley Ridge Powerhouse
Palermo Canal
4070

Figure 3.--Schematic diagram showing diversions and storage in South Fork Feather River basin.

11394800 SOUTH FORK FEATHER RIVER ABOVE LITTLE GRASS VALLEY RESERVOIR, CALIF.

LOCATION.--Lat 39°45'07", long 120°57'26", in NW¼SE¼ sec.22, T.22 N., R.9 E., Plumas County, Plumas National Forest, on right bank 0.5 mile downstream from unnamed tributary, 4.5 miles upstream from Little Grass Valley Dam, and 5 miles north of LaPorte.

DRAINAGE AREA.--8.09 sq mi.

PERIOD OF RECORD.--October 1960 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 5,080 ft (from topographic map).

AVERAGE DISCHARGE.--10 years, 30.5 cfs (22,100 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (140 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
May 10, 1966	0200	*161	3.07	Jan. 15, 1968	0200	244	3.23	Dec. 21, 1969	1100	616	4.01
				Feb. 21, 1968	0600	*292	3.35	Dec. 25, 1969	1000	342	3.47
Nov. 20, 1966	0300	194	3.09	Feb. 23, 1968	1000	230	3.19	Jan. 9, 1970	2100	216	3.15
Nov. 29, 1966	0200	260	3.27					Jan. 14, 1970	1000	430	3.66
Jan. 21, 1967	1800	248	-	Jan. 21, 1969	0130	*795	4.30	Jan. 16, 1970	0800	610	4.00
Jan. 29, 1967	0800	*369	3.53	Jan. 26, 1969	0400	550	3.89	Jan. 21, 1970	2200	*1,110	4.77
Mar. 16, 1967	2300	283	3.33	Apr. 22, 1969	2300	166	3.00	Jan. 23, 1970	-	-	-
May 23, 1967	1800	346	3.48	May 12, 1969	2100	296	3.35				
June 18, 1967	1730	329	3.44	May 23, 1969	1830	287	3.34				

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Long periods	.10	1969	Aug. 24, 25, 1969	.08
1967	Oct. 1-19, 1966	.10	1970	Aug. 24, 25, 1970	.06
1968	Sept. 9-13, 29, 1968	.06			

Period of record: Maximum discharge, 4,160 cfs Jan. 31, 1963 (gage height, 7.12 ft), from rating curve extended above 140 cfs on basis of slope-area measurement at gage height 5.47 ft; minimum daily, 0.06 cfs Sept. 9-13, 29, 1968, Aug. 24, 25, 1970.

REMARKS.--Records good. No storage or diversion above station. See schematic diagram of South Fork Feather River basin elsewhere in this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.30	.30	3.0	2.3	3.5	3.5	93	89	21	1.7	.40	.10
2	.30	.30	3.0	2.3	3.5	3.5	98	95	19	1.7	.40	.10
3	.30	.30	3.0	2.3	3.5	3.5	98	98	17	1.7	.30	.10
4	.30	.30	3.5	2.6	3.0	3.5	96	110	15	1.5	.30	.10
5	.30	.30	3.5	2.6	3.5	3.5	100	118	14	1.5	.30	.10
6	.30	.30	3.5	8.0	3.5	4.0	104	110	14	1.3	.30	.10
7	.40	.30	3.0	6.0	3.5	4.4	108	106	14	1.2	.30	.10
8	.40	.70	3.5	5.6	3.5	4.4	104	106	13	1.0	.30	.10
9	.40	.80	3.5	5.4	3.5	5.4	104	106	12	1.2	.20	.10
10	.40	.70	3.5	5.2	3.5	14	120	128	11	1.0	.20	.10
11	.40	.60	3.5	5.0	3.0	13	100	106	10	1.0	.20	.10
12	.60	.70	3.5	5.0	3.0	13	87	95	9.1	.80	.20	.10
13	.60	2.6	3.5	4.9	3.0	31	80	89	8.4	.80	.20	.10
14	.60	12	3.0	4.9	3.0	30	76	85	7.8	.80	.20	.10
15	.60	8.4	2.7	4.9	3.0	28	83	80	7.2	.80	.20	.10
16	.40	4.4	2.6	4.4	3.0	23	98	76	6.6	.70	.20	.10
17	.40	28	2.5	4.4	2.6	21	116	73	6.0	.70	.20	.10
18	.40	26	2.5	4.4	3.0	20	110	73	5.4	.60	.20	.10
19	.40	12	2.4	4.4	3.0	19	93	74	4.9	.60	.20	.10
20	.40	9.1	2.3	4.4	3.0	18	82	73	4.4	.60	.20	.10
21	.40	7.8	2.1	4.4	3.0	18	76	69	4.0	.60	.20	.10
22	.30	6.0	2.0	4.4	3.0	17	76	60	3.5	.60	.20	.10
23	.30	5.4	2.3	4.4	3.5	18	82	53	3.5	.40	.20	.10
24	.30	6.6	2.6	4.4	3.5	20	91	49	3.5	.40	.20	.10
25	.30	4.9	2.6	4.4	3.5	22	102	49	3.0	.40	.20	.10
26	.30	4.4	2.6	4.0	3.5	28	102	46	2.6	.40	.20	.10
27	.30	3.5	2.3	4.0	3.5	36	95	37	2.3	.30	.20	.10
28	.30	3.5	1.7	4.0	3.5	45	91	34	2.0	.30	.20	.10
29	.30	3.5	2.3	3.5	------	56	87	31	2.0	.30	.20	.10
30	.30	3.0	2.3	3.5	------	65	89	27	1.7	.30	.20	.10
31	.30	------	2.3	3.5	------	76	------	23	------	.40	.10	------
TOTAL	11.60	156.70	86.6	133.5	91.1	666.7	2,841	2,368	247.9	25.60	7.10	3.00
MEAN	.37	5.22	2.79	4.31	3.25	21.5	94.7	76.4	8.26	.83	.23	.10
MAX	.60	28	3.5	8.0	3.5	76	120	128	21	1.7	.40	.10
MIN	.30	.30	1.7	2.3	2.6	3.5	76	23	1.7	.30	.10	.10
AC-FT	23	311	172	265	181	1,320	5,640	4,700	492	51	14	6.0

CAL YR 1965 TOTAL 10,784.10 MEAN 29.5 MAX 211 MIN .30 AC-FT 21,390
WTR YR 1966 TOTAL 6,638.80 MEAN 18.2 MAX 128 MIN .10 AC-FT 13,170

11394800 SOUTH FORK FEATHER RIVER ABOVE LITTLE GRASS VALLEY RESERVOIR, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.20	63	11	97	18	26	11	118	72	2.0	.30
2	.10	.20	57	9.9	76	18	24	13	97	63	1.8	.30
3	.10	.20	44	9.9	65	18	23	14	93	55	1.8	.30
4	.10	.20	38	9.2	55	17	22	16	102	42	1.6	.40
5	.10	.20	61	9.2	48	16	21	18	110	38	1.5	.40
6	.10	.30	42	8.5	40	16	21	23	120	30	1.4	.30
7	.10	.40	34	8.5	39	16	20	34	134	26	1.3	.30
8	.10	.40	28	7.8	34	16	20	53	152	24	1.3	.30
9	.10	.40	25	7.8	33	16	18	70	167	21	1.4	.30
10	.10	.50	25	7.8	32	20	18	61	174	18	1.3	.30
11	.10	.60	24	7.8	30	20	16	50	174	16	1.2	.30
12	.10	1.3	23	7.2	33	17	16	44	171	14	1.2	.30
13	.10	1.3	24	7.2	34	16	16	48	161	13	1.2	.30
14	.10	2.3	24	7.2	33	15	15	57	152	11	.80	.30
15	.10	18	22	7.8	33	16	15	81	164	11	.70	.20
16	.10	27	21	7.8	30	194	14	118	184	9.2	.70	.20
17	.10	7.2	20	9.2	28	208	14	155	208	8.5	.70	.20
18	.10	4.9	18	9.2	27	134	14	174	233	7.2	.60	.30
19	.10	17	17	8.5	26	95	13	190	229	6.2	.50	.20
20	.20	72	17	23	25	81	13	226	204	5.3	.50	.20
21	.20	25	16	135	24	79	12	263	180	4.9	.50	.20
22	.20	14	16	48	23	74	12	283	155	4.5	.50	.20
23	.20	11	15	24	22	88	12	292	137	4.1	.50	.20
24	.20	8.5	15	17	22	70	12	292	134	3.7	.50	.20
25	.20	7.2	14	15	21	61	12	263	129	3.3	.60	.20
26	.20	6.7	14	13	20	53	12	244	118	3.0	.60	.20
27	.20	6.2	14	24	18	46	12	233	107	3.0	.60	.20
28	.20	72	14	51	18	42	11	222	100	2.7	.50	.20
29	.20	169	12	254	------	36	11	219	93	2.7	.50	.20
30	.20	65	11	180	------	33	11	194	83	2.4	.40	.20
31	.20	------	11	134	------	31	------	161	------	2.2	.40	------
TOTAL	4.30	539.20	779	1,079.5	986	1,580	476	4,122	4,383	526.9	29.10	7.70
MEAN	.14	18.0	25.1	34.8	35.2	51.0	15.9	133	146	17.0	.94	.26
MAX	.20	169	63	254	97	208	26	292	233	72	2.0	.40
MIN	.10	.20	11	7.2	18	15	11	11	83	2.2	.40	.20
AC-FT	8.5	1,070	1,550	2,140	1,960	3,130	944	8,180	8,690	1,050	58	15

CAL YR 1966 TOTAL 7,706.40 MEAN 21.1 MAX 169 MIN .10 AC-FT 15,290
WTR YR 1967 TOTAL 14,512.70 MEAN 39.8 MAX 292 MIN .10 AC-FT 28,790

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.25	.41	1.6	2.8	12	62	57	81	29	2.2	.30	.30
2	8.0	.41	1.1	2.8	20	59	51	81	28	2.2	.30	.25
3	3.8	.41	1.1	3.4	23	53	48	87	26	2.2	.25	.25
4	1.2	.41	1.8	2.8	23	51	48	87	24	2.0	.20	.20
5	1.1	.41	3.0	3.0	22	53	48	79	22	1.8	.20	.15
6	.95	.41	2.5	3.0	18	48	44	68	23	2.0	.15	.15
7	.63	.41	2.5	2.8	14	43	44	64	21	1.8	.15	.11
8	.55	.41	1.8	2.5	14	40	44	62	18	1.8	.15	.08
9	.55	.41	1.8	2.2	11	36	50	60	17	2.0	.15	.06
10	.47	.41	1.6	2.3	9.9	34	57	60	16	2.0	.15	.06
11	.47	.41	1.8	2.4	9.9	31	68	59	14	1.8	.15	.06
12	.41	.41	1.8	2.5	9.9	31	68	55	12	1.8	.15	.06
13	.41	.41	1.6	2.8	9.9	31	66	51	11	1.8	.15	.06
14	.35	2.1	2.0	5.8	9.9	29	64	44	9.9	1.4	.15	.08
15	.35	1.4	2.1	131	9.2	26	64	42	9.2	1.1	.20	.11
16	.35	.83	2.0	34	9.9	27	62	43	8.6	.95	.25	.11
17	.35	.73	1.8	21	39	24	55	43	8.6	.95	.30	.11
18	.35	1.1	2.0	16	36	22	51	46	8.0	.83	.35	.15
19	.35	7.4	2.0	14	48	21	50	51	7.4	.73	2.8	.15
20	.35	4.5	1.6	13	118	21	48	60	6.9	.63	2.5	.11
21	.35	3.0	1.6	12	209	20	43	53	6.4	.55	2.5	.08
22	.41	2.0	1.4	11	139	20	42	50	5.4	.47	1.2	.11
23	.41	1.8	1.6	11	205	19	42	42	4.5	.47	.83	.11
24	.41	1.4	1.8	11	142	20	43	37	4.1	.47	.55	.08
25	.41	1.1	2.2	11	104	23	44	43	3.4	.41	.47	.08
26	.41	.95	3.4	11	90	24	50	42	3.0	.35	.41	.08
27	.41	.95	5.4	9.9	81	24	57	42	2.8	.30	.35	.08
28	.41	.95	4.9	9.2	77	29	60	40	2.5	.30	.30	.08
29	.41	.83	3.7	8.0	68	36	68	38	2.5	.30	.30	.06
30	.35	1.2	3.0	7.5	------	46	79	34	2.2	.30	.25	.08
31	.41	------	3.0	8.0	------	57	------	31	------	.30	.30	------
TOTAL	25.63	37.57	69.5	379.7	1,581.6	1,060	1,615	1,675	356.4	36.21	16.46	3.45
MEAN	.83	1.25	2.24	12.2	54.5	34.2	53.8	54.0	11.9	1.17	.53	.12
MAX	8.0	7.4	5.4	131	209	62	79	87	29	2.2	2.8	.30
MIN	.25	.41	1.1	2.2	9.2	19	42	31	2.2	.30	.15	.06
AC-FT	51	75	138	753	3,140	2,100	3,200	3,320	707	72	33	6.8

CAL YR 1967 TOTAL 13,322.90 MEAN 36.5 MAX 292 MIN .20 AC-FT 26,430
WTR YR 1968 TOTAL 6,856.52 MEAN 18.7 MAX 209 MIN .06 AC-FT 13,600

11394800 SOUTH FORK FEATHER RIVER ABOVE LITTLE GRASS VALLEY RESERVOIR, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.11	1.6	5.4	5.4	57	15	81	122	202	14	.73	.15
2	.15	8.7	4.9	5.4	48	15	77	117	195	14	.73	.20
3	.15	23	4.1	5.4	42	15	66	109	198	13	.63	.25
4	.15	12	4.5	5.9	37	14	59	97	188	11	.55	.25
5	.15	8.0	4.5	5.9	34	14	59	112	182	11	.47	.25
6	.15	5.9	4.1	5.9	31	14	51	142	154	9.9	.47	.25
7	.15	4.9	4.1	6.4	29	14	46	179	133	8.6	.41	.25
8	.15	4.1	4.5	6.4	27	14	44	205	117	9.2	.41	.25
9	.15	3.7	4.9	6.4	27	13	44	237	107	8.6	.35	.25
10	.15	3.4	28	6.4	28	12	44	252	87	8.0	.35	.25
11	.38	6.2	18	12	29	12	51	260	95	7.4	.35	.25
12	12	27	11	14	27	12	62	267	95	6.4	.35	.25
13	7.4	12	11	30	24	11	70	252	92	5.9	.35	.25
14	5.4	8.6	18	60	24	11	68	226	95	5.4	.30	.30
15	3.7	8.0	21	29	23	11	62	205	95	5.4	.30	.30
16	2.8	7.4	18	22	22	12	62	208	83	4.5	.25	.30
17	2.2	6.9	9.2	19	21	13	68	230	72	3.7	.20	.30
18	1.8	20	8.6	21	21	14	85	248	74	3.4	.20	.30
19	1.4	18	8.0	193	20	13	87	237	64	3.0	.15	.35
20	1.1	14	7.5	533	19	14	97	216	53	2.8	.15	.35
21	.95	11	7.0	565	18	14	117	216	44	2.5	.11	.25
22	.95	9.9	6.5	246	18	14	151	230	40	2.2	.11	.25
23	.83	9.2	6.5	148	18	15	160	244	36	2.2	.11	.20
24	.73	8.6	7.0	109	17	16	122	237	30	2.0	.08	.25
25	.63	8.0	9.0	197	16	17	102	222	27	1.8	.08	.20
26	.63	6.9	7.0	369	15	19	90	216	23	1.6	.11	.20
27	.63	6.4	5.9	195	15	23	81	208	21	1.4	.11	.20
28	.63	5.9	6.4	128	15	28	87	188	18	1.4	.11	.25
29	2.1	5.4	5.9	95	------	36	109	188	17	1.2	.11	.30
30	4.0	5.4	5.4	77	------	48	125	205	16	1.1	.11	.30
31	2.2	------	5.4	60	------	72	------	216	------	.83	.15	------
TOTAL	53.92	280.1	271.3	3,181.5	722	565	2,427	6,291	2,653	173.43	8.89	7.70
MEAN	1.74	9.34	8.75	103	25.8	18.2	80.9	203	88.4	5.59	.29	.26
MAX	12	27	28	565	57	72	160	267	202	14	.73	.35
MIN	.11	1.6	4.1	5.4	15	11	44	97	16	.83	.08	.15
AC-FT	107	556	538	6,310	1,430	1,120	4,810	12,480	5,260	344	18	15

CAL YR 1968 TOTAL 7,329.14 MEAN 20.0 MAX 209 MIN .06 AC-FT 14,540
WTR YR 1969 TOTAL 16,634.84 MEAN 45.6 MAX 565 MIN .08 AC-FT 33,000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.30	.55	.63	36	50	36	34	48	38	3.7	.25	.11
2	.35	.55	.63	31	40	28	37	57	36	3.4	.25	.11
3	.30	.55	.63	28	38	27	38	66	32	3.0	.20	.15
4	.30	.51	.63	26	34	26	38	66	28	2.8	.20	.15
5	.35	2.6	.63	22	32	26	38	62	26	2.5	.20	.20
6	.35	2.5	.63	23	29	27	42	57	22	2.5	.20	.15
7	.35	2.5	.63	20	28	28	48	62	20	2.2	.15	.15
8	.47	2.5	.73	21	27	27	46	66	22	2.0	.15	.11
9	.47	2.2	.83	82	27	26	42	57	24	1.8	.20	.11
10	.55	2.2	.83	90	27	24	40	50	18	1.6	.15	.11
11	.73	3.0	1.1	64	29	26	36	46	16	1.6	.15	.11
12	.73	3.0	8.9	85	42	37	32	46	16	1.4	.11	.08
13	.73	3.0	21	157	40	46	32	51	20	1.2	.11	.20
14	.83	3.0	11	278	38	46	29	60	15	1.1	.11	.20
15	2.4	2.8	7.4	166	38	46	28	77	14	.83	.11	.25
16	8.0	3.7	5.9	472	37	42	27	95	13	.83	.11	.30
17	5.4	2.8	5.4	360	36	40	27	99	11	.73	.08	.35
18	2.8	2.0	4.9	233	32	37	24	90	11	.63	.08	.35
19	1.8	2.0	60	219	29	37	23	83	8.6	.55	.08	.35
20	1.2	1.8	166	219	28	38	22	74	8.0	.55	.08	.41
21	1.1	1.6	379	633	26	42	21	68	7.4	.55	.08	.47
22	.95	1.2	125	700	26	46	23	72	6.9	.47	.08	.55
23	.83	1.2	101	560	24	46	26	79	5.9	.55	.08	.55
24	.73	1.2	280	383	23	44	23	74	5.4	.55	.06	.63
25	.63	1.1	263	208	22	44	22	74	4.9	.47	.06	.41
26	.63	1.1	142	151	22	40	21	68	5.4	.41	.08	.25
27	.63	.95	95	131	22	38	22	62	4.9	.41	.08	.15
28	.63	.73	72	97	29	36	24	51	5.4	.35	.08	.20
29	.63	.73	57	85	------	34	29	46	4.9	.35	.08	.20
30	.63	.63	48	70	------	34	37	44	4.1	.30	.08	.20
31	.63	------	40	59	------	32	------	43	------	.30	.08	------
TOTAL	36.43	54.20	1,900.40	5,709	875	1,106	931	1,993	453.8	39.63	3.81	7.56
MEAN	1.18	1.81	61.3	184	31.3	35.7	31.0	64.3	15.1	1.28	.12	.25
MAX	8.0	3.7	379	700	50	46	48	99	38	3.7	.25	.63
MIN	.30	.51	.63	20	22	24	21	43	4.1	.30	.06	.08
AC-FT	72	108	3,770	11,320	1,740	2,190	1,850	3,950	900	79	7.6	15

CAL YR 1969 TOTAL 18,020.55 MEAN 49.4 MAX 565 MIN .08 AC-FT 35,740
WTR YR 1970 TOTAL 13,109.83 MEAN 35.9 MAX 700 MIN .06 AC-FT 26,000

11395020 LITTLE GRASS VALLEY RESERVOIR NEAR LaPORTE, CALIF.

LOCATION.--Lat 39°43'25", long 121°01'10", in W½ sec.31, T.22 N., R.9 E., Plumas County, Plumas National Forest, on right bank 300 ft upstream from dam on South Fork Feather River and 3.3 miles northwest of LaPorte.

DRAINAGE AREA.--25.8 sq mi.

PERIOD OF RECORD.--October 1961 to September 1970. Monthend elevation and contents only October 1961 to October 1962.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Oroville-Wyandotte Irrigation District). Prior to Nov. 1, 1962, in valve chamber in dam at same datum.

EXTREMES.--Maximums and minimums (contents in acre-feet, elevation in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum		
Wtr yr	Date	Contents	Elevation	Date	Contents	Elevation
1966	May 11-13, 1966	92,700	5,045.8	Nov. 1-11, 1965	52,200	5,016.8
1967	May 23, 1967	93,200	5,046.1	Nov. 5, 1966	49,500	5,014.4
1968	May 22, 23, 25-27, 1968	92,700	5,045.8	Sept.30, 1968	49,200	5,014.2
1969	June 15, 16, 1969	92,700	5,045.8	Oct. 25-28, 1968	48,800	5,013.8
1970	June 17-29, 1970	89,800	5.044.0	Nov. 11, 12, 1969	49,200	5,014.2

Period of record: Maximum contents, 96,100 acre-ft Apr. 29, 1965 (elevation, 5,047.9 ft); minimum since reservoir first filled, 48,800 acre-ft Oct. 25-28, 1968 (elevation, 5,013.8 ft).

REMARKS.--Reservoir is formed by a rockfill dam. Storage began in October 1961. Total capacity, 94,700 acre-ft between elevations 4,876 (invert of release valve) and 5,047 ft (top of spillway gates), all of which is usable. Water is released down South Fork Feather River for power development and irrigation downstream. See schematic diagram of South Fork Feather River basin elsewhere in this report.

Capacity table, water years 1966-70 (elevation, in feet, and contents, in acre-feet)

5,010	44,400	5,030	68,900	5,048	96,300
5,020	55,900	5,040	83,500		

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61,600	52,200	55,200	56,800	59,300	60,600	67,200	87,300	91,500	91,400	80,400	68,000
2	61,100	52,200	55,300	56,800	59,300	60,600	67,800	87,700	91,500	91,200	80,100	67,700
3	60,600	52,200	55,300	56,900	59,300	60,700	68,400	88,400	91,500	91,200	79,700	67,300
4	59,800	52,200	55,300	57,400	59,400	60,700	69,000	89,000	91,700	91,200	79,400	66,900
5	59,400	52,200	55,300	57,700	59,500	60,700	69,800	89,600	91,700	91,100	79,000	66,500
6	58,900	52,200	55,300	57,700	59,700	60,800	70,500	90,300	91,700	90,700	78,500	66,200
7	58,400	52,200	55,300	57,800	59,700	61,000	71,200	90,900	91,700	90,300	78,200	65,900
8	57,800	52,200	55,400	58,000	59,700	61,000	72,000	91,400	91,700	90,000	77,800	65,500
9	57,200	52,200	55,400	58,000	59,700	61,200	73,000	92,000	91,900	89,500	77,400	65,100
10	56,700	52,200	55,400	58,100	59,800	61,300	74,300	92,500	91,900	89,200	76,900	64,700
11	56,100	52,200	55,400	58,100	59,800	61,500	75,300	92,700	91,900	88,700	76,500	64,300
12	55,700	52,300	55,500	58,200	59,800	61,700	76,000	92,700	91,900	88,200	76,200	63,900
13	55,100	52,600	55,500	58,200	59,800	62,100	76,800	92,700	91,900	87,900	75,700	63,600
14	54,600	52,900	55,500	58,200	59,800	62,400	77,400	92,500	91,900	87,400	75,300	63,200
15	54,200	53,000	55,500	58,400	59,800	62,800	77,900	92,400	91,900	87,100	74,900	62,800
16	53,700	53,000	55,500	58,400	59,800	62,900	78,700	92,400	91,900	86,800	74,400	62,400
17	53,100	53,600	55,500	58,400	59,900	63,200	79,400	92,400	91,900	86,300	74,000	62,000
18	52,700	54,200	55,500	58,400	59,900	63,300	80,000	92,400	91,900	86,000	73,600	61,600
19	52,400	54,300	55,700	58,500	60,000	63,600	80,700	92,400	91,900	85,500	73,300	61,300
20	52,400	54,400	55,700	58,500	60,200	63,700	81,100	92,200	91,700	85,200	72,800	61,000
21	52,400	54,400	55,700	58,500	60,200	63,800	81,700	92,200	91,700	84,700	72,400	60,600
22	52,400	54,400	55,700	58,600	60,200	63,900	82,200	92,000	91,700	84,300	72,000	60,200
23	52,400	54,600	55,700	58,600	60,300	64,100	82,600	92,000	91,700	84,000	71,500	59,800
24	52,300	55,000	55,900	58,600	60,400	64,300	83,200	92,000	91,700	83,500	71,200	59,400
25	52,300	55,100	55,900	58,600	60,400	64,500	83,800	92,000	91,700	83,000	70,800	59,000
26	52,300	55,100	55,900	58,700	60,400	64,700	84,400	91,900	91,500	82,800	70,300	58,600
27	52,300	55,200	55,900	58,700	60,600	65,000	85,100	91,900	91,500	82,300	70,100	58,200
28	52,300	55,200	56,300	58,700	60,600	65,200	85,500	91,700	91,500	81,900	69,600	57,800
29	52,300	55,200	56,400	58,900	------	65,600	86,200	91,500	91,500	81,600	69,300	57,400
30	52,300	55,200	56,700	59,000	------	66,000	86,600	91,500	91,400	81,100	68,900	56,900
31	52,300	------	56,800	59,100	------	66,500	------	91,500	------	80,900	68,500	------
MAX	61,600	55,200	56,800	59,100	60,600	66,500	86,600	92,700	91,900	91,400	80,400	68,000
MIN	52,300	52,200	55,200	56,800	59,300	60,600	67,200	87,300	91,400	80,900	68,500	56,900
(+)	5,016.9	5,019.4	5,020.7	5,022.5	5,023.6	5,028.2	5,042.0	5,045.1	5,045.0	5,038.2	5,029.7	5,020.8
(‡)	-9,800	+2,900	+1,600	+2,300	+1,500	+5,900	+20,100	+4,900	-100	-10,500	-12,400	-11,600

CAL YR 1965 MAX 95,800 MIN 52,200 ‡ -19,800
WTR YR 1966 MAX 92,700 MIN 52,200 ‡ -5,200

+ ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11395020 LITTLE GRASS VALLEY RESERVOIR NEAR LaPORTE, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56,500	49,600	56,000	63,900	74,300	75,300	75,900	79,000	90,900	92,200	86,000	77,800
2	56,300	49,600	57,200	63,900	74,900	75,300	75,700	79,000	90,300	92,400	85,500	76,900
3	55,800	49,600	57,700	64,100	75,300	75,300	75,700	79,000	89,800	92,400	85,200	76,000
4	55,400	49,600	58,500	64,100	75,500	75,300	75,600	79,200	89,200	92,500	84,700	75,300
5	55,100	49,500	59,400	64,100	75,600	75,300	75,700	79,400	89,200	92,500	84,300	74,400
6	54,800	49,700	60,000	64,200	75,600	75,300	75,700	79,500	88,900	92,500	84,000	73,400
7	54,700	49,700	60,400	64,200	75,600	75,300	75,600	79,800	88,700	92,500	83,500	72,700
8	54,400	49,700	60,700	64,200	75,600	75,300	75,600	80,300	89,000	92,700	83,200	72,100
9	54,000	49,700	61,100	64,300	75,600	75,300	75,700	80,900	89,600	92,700	82,900	71,500
10	53,600	49,700	61,300	64,300	75,700	75,600	76,000	81,400	90,300	92,700	82,800	70,800
11	53,200	49,700	61,500	64,300	75,700	75,600	76,200	81,900	90,900	92,800	82,600	70,200
12	52,800	49,700	61,700	64,500	75,700	75,700	76,300	82,300	91,700	92,800	82,300	69,600
13	52,300	49,700	62,000	64,500	75,700	75,700	76,500	82,800	92,200	92,700	82,200	69,000
14	52,000	49,900	62,100	64,500	75,700	75,600	76,600	83,200	92,500	92,500	81,900	68,600
15	51,600	50,500	62,300	64,600	75,600	75,700	76,800	83,800	92,800	92,200	81,700	68,100
16	51,200	50,800	62,500	64,600	75,600	77,100	76,900	84,700	92,800	91,900	81,400	67,500
17	50,800	51,000	62,600	64,600	75,600	77,400	77,400	85,700	92,800	91,500	81,300	66,900
18	50,400	51,000	62,800	64,600	75,600	77,200	77,400	87,000	92,800	91,200	81,100	66,400
19	50,000	51,400	62,900	64,700	75,600	76,900	77,600	88,100	92,800	90,900	80,900	65,900
20	49,900	52,200	63,000	65,200	75,600	76,800	77,800	89,500	92,700	90,400	80,700	65,500
21	49,900	52,600	63,200	66,200	75,600	76,600	77,800	90,900	92,500	90,100	80,400	65,200
22	49,800	52,700	63,200	66,400	75,500	76,500	77,900	92,500	92,400	89,600	80,300	65,000
23	49,800	52,800	63,300	66,500	75,500	76,600	78,100	93,200	92,200	89,300	80,000	64,600
24	49,700	52,800	63,400	66,900	75,500	76,500	78,200	92,500	92,200	89,000	79,800	64,300
25	49,700	52,900	63,400	67,100	75,500	76,300	78,200	91,700	92,200	88,500	79,500	64,100
26	49,700	52,900	63,600	67,300	75,500	76,200	78,400	91,200	92,000	88,200	79,400	63,800
27	49,700	53,000	63,600	67,600	75,500	76,200	78,500	91,200	91,900	88,100	79,100	63,600
28	49,700	53,800	63,700	68,200	75,500	76,000	78,700	91,200	91,900	87,400	79,000	63,300
29	49,700	54,800	63,700	70,500	------	76,000	78,800	91,200	92,000	87,100	78,800	62,900
30	49,600	55,300	63,800	72,200	------	76,000	78,800	91,200	92,200	86,800	78,500	62,600
31	49,600	------	63,900	73,600	------	76,000	------	91,200	------	86,300	78,200	------
MAX	56,500	55,300	63,900	73,600	75,700	77,400	78,800	93,200	92,800	92,800	86,000	77,800
MIN	49,600	49,500	56,000	63,900	74,300	75,300	75,600	79,000	88,700	86,300	78,200	62,600
(†)		5,019.5	5,026.2	5,033.2	5,034.5	5,034.9	5,036.8	5,044.9	5,045.5	5,041.8	5,036.4	5,025.2
(‡)	-7,300	+5,700	+8,600	+9,700	+1,900	+500	+2,800	+12,400	+1,000	-5,900	-8,100	-15,600

CAL YR 1966 MAX 92,700 MIN 49,500 ‡ +7,100
WTR YR 1967 MAX 93,200 MIN 49,500 ‡ +5,700

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62,400	56,700	57,300	55,900	56,100	70,200	76,000	87,000	92,200	91,200	79,800	57,600
2	62,500	56,700	57,300	55,500	56,400	70,600	76,500	87,400	92,000	91,100	79,400	56,500
3	62,300	56,700	57,600	55,300	56,500	71,100	76,800	87,900	91,900	90,700	79,000	55,500
4	62,000	56,700	57,800	55,000	56,700	71,500	77,100	88,400	91,900	90,400	78,700	54,600
5	61,700	56,700	58,000	54,500	56,700	71,800	77,500	88,900	91,700	90,100	78,200	53,600
6	61,500	56,700	58,000	54,200	56,800	72,200	77,800	89,300	91,700	89,600	77,900	52,600
7	61,200	56,700	58,100	53,800	56,900	72,500	78,100	89,600	91,700	89,300	77,500	51,600
8	61,000	56,700	58,100	53,500	56,900	73,000	78,400	90,000	91,700	88,900	77,100	50,600
9	60,700	56,700	58,100	53,200	57,100	73,300	78,700	90,300	91,700	88,500	76,800	49,900
10	60,400	56,700	58,200	53,000	57,200	73,600	79,100	90,600	91,700	88,100	76,300	49,900
11	60,000	56,500	58,200	52,700	57,200	73,700	79,500	90,900	91,700	87,700	76,000	49,900
12	59,800	56,500	58,100	52,600	57,300	74,000	80,000	91,200	91,700	87,300	75,500	49,900
13	59,500	56,500	58,100	52,600	57,300	74,400	80,400	91,500	91,500	87,000	74,900	49,800
14	59,300	56,700	58,100	53,000	57,400	74,900	80,900	91,700	91,500	86,500	74,100	49,800
15	58,900	56,700	58,100	53,800	57,600	75,000	81,300	92,000	91,500	86,200	73,400	49,800
16	58,600	56,700	58,100	54,000	57,700	75,300	81,600	92,200	91,500	85,800	72,400	49,800
17	58,400	56,700	58,100	54,300	58,400	75,500	82,000	92,200	91,500	85,400	71,500	49,700
18	58,100	56,900	58,400	54,400	58,600	75,500	82,300	92,400	91,500	85,100	70,500	49,700
19	57,700	57,100	58,400	54,500	59,500	75,500	82,600	92,400	91,500	84,600	69,800	49,700
20	57,400	57,100	58,400	54,500	60,700	75,500	82,900	92,500	91,500	84,300	68,900	49,600
21	57,200	57,100	58,400	54,600	62,600	75,500	83,200	92,500	91,500	83,800	68,000	49,600
22	56,900	57,100	58,400	54,700	63,900	75,500	83,500	92,700	91,500	83,300	67,100	49,600
23	56,800	57,100	58,400	54,700	65,600	75,500	83,800	92,700	91,400	83,000	66,200	49,500
24	56,800	57,100	58,400	54,800	66,700	75,500	84,100	92,500	91,400	82,600	65,200	49,500
25	56,800	57,100	58,500	54,800	67,500	75,500	84,400	92,700	91,400	82,300	64,300	49,500
26	56,800	57,100	58,200	55,000	68,100	75,600	84,700	92,700	91,400	81,900	63,300	49,500
27	56,800	57,100	57,800	55,100	68,800	75,600	85,100	92,700	91,400	81,600	62,400	49,400
28	56,800	57,100	57,600	55,200	69,300	75,600	85,500	92,500	91,400	81,100	61,500	49,400
29	56,700	57,200	57,100	55,700	69,800	75,600	86,000	92,500	91,200	80,900	60,400	49,400
30	56,700	57,300	56,700	55,900	------	75,700	86,500	92,400	91,200	80,400	59,500	49,200
31	56,700	------	56,400	56,000	------	75,900	------	92,400	------	80,100	58,500	------
MAX	62,500	57,300	58,500	56,000	69,800	75,900	86,500	92,700	92,200	91,200	79,800	57,600
MIN	56,700	56,500	56,400	52,600	56,100	70,200	76,000	87,000	91,200	80,100	58,500	49,200
(†)	5,020.6	5,021.1	5,020.4	5,020.1	5,030.6	5,034.8	5,041.9	5,045.6	5,044.9	5,037.7	5,022.0	5,014.2
(‡)	-5,900	+600	-900	-400	+13,800	+6,100	+10,600	+5,900	-1,200	-11,100	-21,500	-9,300

CAL YR 1967 MAX 93,200 MIN 56,400 ‡ -7,500
WTR YR 1968 MAX 92,700 MIN 49,200 ‡ -13,400

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11395020 LITTLE GRASS VALLEY RESERVOIR NEAR LaPORTE, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49,200	48,900	51,200	54,700	76,500	75,700	67,200	76,500	87,000	92,000	90,400	77,100
2	49,200	49,100	51,300	54,800	76,300	75,700	67,300	76,600	87,100	92,000	90,100	76,600
3	49,200	49,400	51,300	54,800	76,200	75,600	67,300	76,600	87,100	92,200	89,600	76,200
4	49,200	49,500	51,300	55,000	76,000	75,600	67,300	76,600	87,900	92,200	89,200	75,700
5	49,100	49,500	51,300	55,000	76,200	75,300	67,500	76,600	88,700	92,200	88,700	75,500
6	49,100	49,500	51,300	55,000	76,200	75,300	67,500	76,800	89,300	92,200	88,200	75,500
7	49,100	49,600	51,400	55,100	76,000	75,000	67,500	77,100	89,800	92,200	87,700	75,300
8	49,100	49,600	51,400	55,100	75,900	74,600	67,300	77,200	90,300	92,400	87,400	75,300
9	49,000	49,600	51,500	55,100	76,000	74,400	67,200	77,500	90,600	92,400	87,000	75,300
10	49,000	49,600	52,000	55,200	75,900	73,900	67,100	77,600	90,900	92,400	86,500	75,300
11	49,100	49,800	52,100	55,400	76,000	73,400	67,100	77,800	91,400	92,400	86,000	75,300
12	49,400	50,000	52,200	55,700	76,000	73,000	67,100	77,900	91,900	92,400	85,500	75,200
13	49,000	50,200	52,400	56,500	75,900	72,700	67,100	77,900	92,200	92,400	85,200	75,200
14	48,900	50,200	52,700	57,100	76,000	72,200	67,100	77,800	92,500	92,400	84,700	75,200
15	48,900	50,300	53,000	57,400	76,200	71,800	67,300	77,600	92,700	92,400	84,300	75,000
16	48,900	50,300	53,100	57,600	76,000	71,400	67,800	77,600	92,700	92,400	83,800	75,000
17	48,900	50,400	53,100	57,800	75,900	71,100	68,400	77,600	92,500	92,400	83,300	75,000
18	48,900	50,500	53,200	58,400	75,700	70,900	68,900	77,600	92,500	92,200	83,000	74,900
19	48,900	50,600	53,400	60,800	75,700	70,300	69,600	78,100	92,500	92,200	82,600	74,900
20	48,900	50,700	53,400	66,800	75,700	69,900	70,300	79,000	92,400	92,200	82,200	74,900
21	48,900	50,700	53,500	72,700	75,600	69,600	71,200	79,800	92,200	92,200	81,700	74,900
22	48,900	50,800	53,600	74,900	75,600	69,200	72,100	80,700	91,900	92,200	81,300	74,900
23	48,900	50,800	53,800	75,000	75,700	68,800	73,300	81,600	91,700	92,200	80,900	74,700
24	48,900	51,000	54,000	76,600	75,700	68,500	74,100	82,500	91,700	92,200	80,400	74,700
25	48,800	51,100	54,400	77,900	75,900	68,100	74,700	83,200	91,700	92,000	80,000	74,700
26	48,800	51,100	54,400	79,000	75,700	67,800	75,200	83,800	91,900	92,000	79,500	74,700
27	48,800	51,100	54,500	78,400	75,700	67,600	75,600	84,400	91,900	92,000	79,100	74,700
28	48,800	51,100	54,600	77,600	75,900	67,300	75,900	85,100	91,900	92,000	78,700	74,600
29	48,900	51,100	54,600	77,200	------	67,100	76,200	85,500	92,000	91,900	78,200	74,600
30	48,900	51,200	54,700	76,900	------	67,100	76,300	86,000	92,000	91,400	77,900	74,600
31	48,900	------	54,700	76,600	------	67,100	------	86,500	------	91,100	77,500	------
MAX	49,400	51,200	54,700	79,000	76,500	75,700	76,300	86,500	92,700	92,400	90,400	77,100
MIN	48,800	48,900	51,200	54,700	75,600	67,100	67,100	76,500	87,000	91,100	77,500	74,600
(†)	5,013.9	5,015.9	5,019.0	5,035.3	5,034.8	5,028.6	5,035.1	5,041.9	5,045.4	5,044.8	5,035.9	5,033.9
(‡)	-300	+2,300	+3,500	+21,900	-700	-8,800	+9,200	+10,200	+5,500	-900	-13,600	-2,900

CAL YR 1968 MAX 92,700 MIN 48,800 ‡ -1,700
WTR YR 1969 MAX 92,700 MIN 48,800 ‡ +25,400

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74,400	55,100	49,400	67,300	76,000	75,900	78,700	83,300	89,300	89,500	80,000	70,900
2	74,400	54,400	49,400	67,500	76,000	75,700	78,800	83,500	89,300	89,300	79,500	70,500
3	74,100	53,800	49,400	67,600	75,900	75,700	79,000	83,600	89,300	89,000	79,200	70,100
4	73,700	53,100	49,400	67,700	75,700	75,700	79,100	83,800	89,300	88,900	78,800	69,600
5	73,300	52,700	49,400	67,800	75,700	75,700	79,200	84,100	89,300	88,500	78,500	69,300
6	72,700	52,100	49,400	68,000	75,700	75,600	79,500	84,300	89,300	88,200	78,200	68,900
7	72,200	51,500	49,400	68,100	75,600	75,700	79,700	84,400	89,300	88,100	78,100	68,500
8	72,000	51,000	49,500	68,400	75,600	75,700	79,800	84,700	89,300	87,700	77,800	68,100
9	71,400	50,300	49,500	69,600	75,600	75,700	80,000	84,900	89,300	87,600	77,500	67,600
10	70,800	49,700	49,700	70,300	75,500	75,600	80,300	85,200	89,500	87,300	77,200	67,200
11	69,800	49,200	49,800	70,900	75,600	75,600	80,400	85,400	89,500	87,000	77,100	66,700
12	68,900	49,200	50,300	72,100	75,700	75,600	80,600	85,700	89,500	86,800	76,800	66,300
13	68,100	49,400	50,400	74,100	75,900	75,600	80,900	85,800	89,600	86,500	76,500	65,800
14	67,300	49,400	50,500	77,200	75,900	75,700	81,000	86,200	89,600	86,300	76,200	65,400
15	66,900	49,400	50,500	77,600	75,700	75,700	81,100	86,300	89,600	86,000	75,900	64,900
16	66,400	49,400	50,500	79,700	75,900	75,700	81,300	86,600	89,600	85,700	75,600	64,500
17	65,600	49,400	50,600	79,500	75,900	75,700	81,600	87,000	89,800	85,500	75,300	63,900
18	64,900	49,400	50,700	78,500	75,700	75,700	81,600	87,100	89,800	85,200	75,000	63,600
19	64,200	49,400	51,600	78,200	75,700	75,900	81,900	87,300	89,800	85,100	74,900	63,000
20	63,600	49,400	53,200	78,100	75,600	76,000	81,900	87,600	89,800	84,700	74,600	62,600
21	62,900	49,400	56,800	80,700	75,600	76,300	82,000	87,700	89,800	84,300	74,300	62,100
22	62,100	49,400	57,800	80,600	75,600	76,500	82,200	87,900	89,800	83,800	74,000	61,600
23	61,500	49,400	59,300	81,100	75,500	76,800	82,300	88,100	89,800	83,500	73,700	61,200
24	60,800	49,400	61,900	80,000	75,500	77,100	82,500	88,200	89,800	83,000	73,400	60,700
25	60,000	49,400	64,100	78,700	75,500	77,200	82,500	88,400	89,800	82,600	73,100	60,300
26	59,400	49,400	65,100	77,900	75,500	77,500	82,800	88,500	89,800	82,300	72,800	59,800
27	58,600	49,400	65,800	77,600	75,500	77,800	82,900	88,700	89,800	81,900	72,500	59,300
28	58,000	49,400	66,200	77,100	75,700	77,900	82,900	88,900	89,800	81,400	72,200	58,900
29	57,200	49,400	66,500	76,800	------	78,100	83,000	89,000	89,800	81,100	72,100	58,400
30	56,500	49,400	66,800	76,500	------	78,400	83,200	89,000	89,600	80,700	71,700	58,000
31	55,700	------	67,100	76,200	------	78,500	------	89,200	------	80,400	71,400	------
MAX	74,400	55,100	67,100	81,100	76,000	78,500	83,200	89,200	89,800	89,500	80,000	70,900
MIN	55,700	49,200	49,400	67,300	75,500	75,600	78,700	83,300	89,300	80,400	71,400	58,000
(†)	5,019.8	5,014.3	5,028.6	5,035.0	5,034.7	5,036.6	5,039.8	5,043.6	5,043.9	5,037.9	5,031.7	5,021.6
(‡)	-18,900	-6,300	+17,700	+9,100	-500	+2,800	+4,700	+6,000	+400	-9,200	-9,000	-13,300

CAL YR 1969 MAX 92,700 MIN 49,200 ‡ +12,400
WTR YR 1970 MAX 89,800 MIN 49,200 ‡ -16,600

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11395030 SOUTH FORK FEATHER RIVER BELOW LITTLE GRASS VALLEY DAM, CALIF.

LOCATION.--Lat 39°43'26", long 121°01'16", in SW¼NW¼ sec.31, T.22 N., R.9 E., Plumas County, Plumas National Forest, on left bank 0.1 mile downstream from Little Grass Valley Dam, 0.7 mile downstream from Ice Creek, and 3.5 miles northwest of LaPorte. Nov. 1, 1962, to May 31, 1966, at site 0.1 mile upstream.

DRAINAGE AREA.--25.9 sq mi.

PERIOD OF RECORD.--October 1927 to September 1933 (published as "near LaPorte"), October 1960 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 4,809.0 ft above mean sea level. Prior to Oct. 1, 1960, at site 0.4 mile upstream at different datum. Oct. 1, 1960, to Oct. 30, 1962, at present site and datum. Nov. 1, 1962, to May 31, 1966, at site on outlet works at base of Little Grass Valley Dam 0.1 mile upstream at datum 4,850.00 ft above mean sea level.

AVERAGE DISCHARGE.--16 years, 92.0 cfs (66,650 acre-ft per year), adjusted for change in contents in Little Grass Valley Reservoir.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Oct. 1-11, 13-18, 1965	a280	-	Many days	5.1
1967	May 24, 1967	1,130	11.26	Nov. 2-5, 9-11, 1966	5.7
1968	Sept. 4-6, 1968	506	10.22	Oct. 24-31, Nov. 2-6, 1967	2.1
1969	Jan. 26, 1969	1,190	11.39	Nov. 7-9, 1968	5.5
1970	Jan. 22, 1970	2,590	12.78	Dec. 3-8, 1969	3.0

a Maximum daily.

Period of record: Maximum discharge, 4,250 cfs Feb. 1, 1963; minimum, 0.20 cfs Oct. 28-31, Nov. 2, 1961.

REMARKS.--Records good. Since October 1961, flow regulated by Little Grass Valley Reservoir (see station 11395020). No diversion above station. See schematic diagram of South Fork Feather River basin elsewhere in this report.

REVISIONS.--WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	280	5.3	5.3	5.1	5.1	5.1	5.1	7.0	11	11	194	184
2	280	5.3	5.3	5.1	5.1	5.1	5.1	9.3	11	11	193	185
3	280	5.3	5.2	5.1	5.1	5.1	5.1	12	11	11	193	185
4	280	5.3	5.2	5.1	5.1	5.1	5.1	12	11	11	193	185
5	280	5.3	5.2	5.1	5.1	5.1	5.1	12	11	61	193	185
6	280	5.3	5.2	5.1	5.1	5.1	5.1	12	11	196	193	185
7	280	5.3	5.2	5.1	5.1	5.1	5.1	12	11	196	193	185
8	280	5.3	5.2	5.1	5.1	5.1	5.1	12	11	196	193	185
9	280	5.3	5.2	5.1	5.1	5.1	5.1	12	11	196	191	184
10	280	5.3	5.2	5.1	5.1	5.1	5.1	126	11	196	191	185
11	280	5.3	5.2	5.1	5.1	5.1	5.1	188	11	196	191	184
12	268	5.3	5.2	5.1	5.1	5.1	5.1	250	11	196	191	185
13	280	5.3	5.2	5.1	5.1	5.1	5.1	250	11	196	189	185
14	280	5.3	5.2	5.1	5.1	5.1	5.1	250	11	196	189	185
15	280	5.3	5.2	5.1	5.1	5.1	5.1	250	11	196	189	185
16	280	5.3	5.2	5.1	5.1	5.1	5.1	212	11	194	189	185
17	280	5.3	5.2	5.1	5.1	5.1	5.1	174	11	194	189	187
18	280	5.3	5.2	5.1	5.1	5.1	5.1	170	11	194	189	187
19	139	5.3	5.2	5.1	5.1	5.1	5.1	170	11	194	189	187
20	10	5.3	5.2	5.1	5.1	5.1	5.1	170	11	194	189	187
21	10	5.3	5.2	5.1	5.1	5.1	5.1	170	11	194	189	185
22	10	5.3	5.2	5.1	5.1	5.1	5.1	136	11	194	189	185
23	10	5.3	5.1	5.1	5.1	5.1	5.1	105	11	194	189	185
24	10	5.3	5.1	5.1	5.1	5.1	5.1	105	11	194	189	185
25	10	5.3	5.1	5.1	5.1	5.1	5.1	105	11	194	185	187
26	10	5.3	5.1	5.1	5.1	5.1	5.1	105	11	194	182	187
27	10	5.3	5.1	5.1	5.1	5.1	6.8	105	11	194	182	185
28	10	5.3	5.1	5.1	5.1	5.1	7.0	90	11	194	182	185
29	10	5.3	5.1	5.1	------	5.1	7.0	80	11	194	182	185
30	10	5.3	5.1	5.1	------	5.1	7.0	80	11	194	182	185
31	7.4	------	5.1	5.1	------	5.1	------	36	------	194	182	------
TOTAL	5,284.4	159.0	160.5	158.1	142.8	158.1	160.4	3,427.3	330	5,169	5,854	5,559
MEAN	170	5.30	5.18	5.10	5.10	5.10	5.35	111	11.0	167	189	185
MAX	280	5.3	5.3	5.1	5.1	5.1	7.0	250	11	196	194	187
MIN	7.4	5.3	5.1	5.1	5.1	5.1	5.1	7.0	11	11	182	184
AC-FT	10,480	315	318	314	283	314	318	6,800	655	10,250	11,610	11,030

CAL YR 1965 TOTAL 46,348.3 MEAN 127 MAX 2,060 MIN 5.0 AC-FT 91,930 MEAN† 99.6 AC-FT† 72,140
WTR YR 1966 TOTAL 26,562.6 MEAN 72.8 MAX 280 MIN 5.1 AC-FT 52,690 MEAN† 65.6 AC-FT† 47,480

† ADJUSTED FOR CHANGE IN CONTENTS IN LITTLE GRASS VALLEY RESERVOIR.
NOTE.--NO GAGE-HEIGHT RECORD OCT. 1 TO MAY 31.

11395030 SOUTH FORK FEATHER RIVER BELOW LITTLE GRASS VALLEY DAM, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	178	6.2	11	8.3	11	67	205	9.3	610	71	189	267
2	178	5.7	14	8.3	11	66	173	9.3	605	71	189	394
3	178	5.7	12	8.3	40	64	147	9.3	620	41	189	394
4	178	5.7	9.3	8.3	79	64	127	9.3	645	34	189	394
5	178	5.7	13	8.3	118	61	133	9.3	615	32	189	394
6	114	5.9	10	8.3	131	59	147	9.7	540	22	189	394
7	80	5.9	8.9	8.3	136	58	134	10	363	14	189	309
8	191	5.9	8.6	8.3	131	58	67	11	214	8.6	148	265
9	191	5.7	8.3	8.3	126	59	11	12	196	8.6	98	265
10	191	5.7	8.3	8.3	121	74	11	11	177	8.6	98	265
11	191	5.7	8.3	8.3	115	134	11	9.7	177	11	98	265
12	191	5.9	8.0	8.3	115	150	11	9.7	179	12	98	265
13	189	5.9	8.3	8.3	119	164	11	9.7	220	94	98	262
14	189	6.2	8.3	8.3	124	147	11	10	258	170	98	262
15	189	8.0	8.0	8.3	124	122	10	11	363	168	98	262
16	189	9.3	8.3	8.3	119	319	10	13	494	168	98	262
17	187	6.5	8.0	8.3	112	634	10	13	540	168	98	262
18	187	6.5	7.7	8.3	108	634	10	13	540	182	98	262
19	189	7.7	7.7	8.3	108	535	10	13	540	196	98	262
20	97	13	7.7	8.3	95	442	10	14	535	196	98	196
21	8.3	8.0	7.7	9.7	90	380	9.7	16	535	196	97	122
22	8.3	7.1	8.0	9.3	83	333	9.7	16	434	196	97	132
23	8.3	6.8	8.0	8.9	80	360	9.7	564	327	196	97	132
24	8.3	6.5	8.0	8.9	78	344	9.7	1,120	306	196	97	130
25	8.3	6.5	8.0	8.9	82	312	9.7	1,110	306	196	97	130
26	8.3	6.5	8.0	8.9	78	281	9.7	970	273	196	97	130
27	8.3	6.5	8.3	9.7	74	250	9.3	760	252	196	97	130
28	8.3	11	8.3	11	70	232	9.3	646	189	196	97	130
29	8.3	20	8.3	24	------	221	9.3	622	90	196	97	130
30	8.3	10	8.3	15	------	211	9.3	616	71	196	96	130
31	8.3	------	8.0	12	------	225	------	622	------	195	96	------
TOTAL	3,546.3	221.7	272.6	292.3	2,678	7,060	1,354.4	7,278.3	11,214	3,830.8	3,712	7,197
MEAN	114	7.39	8.79	9.43	95.6	228	45.1	235	374	124	120	240
MAX	191	20	14	24	136	634	205	1,120	645	196	189	394
MIN	8.3	5.7	7.7	8.3	11	58	9.3	9.3	71	8.6	96	122
AC-FT	7,030	440	541	580	5,310	14,000	2,690	14,440	22,240	7,600	7,360	14,280

CAL YR 1966 TOTAL 24,999.3 MEAN 68.5 MAX 250 MIN 5.1 AC-FT 49,590 MEAN+ 78.3 AC-FT+ 56,690
WTR YR 1967 TOTAL 48,657.4 MEAN 133 MAX 1,120 MIN 5.7 AC-FT 96,510 MEAN+ 141 AC-FT+ 102,200

+ ADJUSTED FOR CHANGE IN CONTENTS IN LITTLE GRASS VALLEY RESERVOIR.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	130	2.2	5.0	191	5.2	6.5	108	9.3	114	11	182	470
2	130	2.1	5.0	191	5.5	6.2	6.8	11	114	98	182	466
3	130	2.1	5.0	191	5.9	6.2	6.5	11	114	186	182	462
4	130	2.1	5.0	191	5.7	6.2	6.5	11	116	186	182	486
5	130	2.1	5.2	191	5.5	6.2	6.5	10	97	184	182	506
6	130	2.1	5.2	191	5.5	6.2	6.2	9.3	83	184	180	506
7	130	2.9	5.2	191	5.5	6.2	6.2	8.9	60	184	180	502
8	130	4.6	5.0	191	5.5	5.9	6.2	8.6	28	182	180	498
9	130	4.6	5.0	191	5.5	5.9	6.2	8.6	28	182	180	306
10	130	4.6	5.0	191	5.5	5.7	7.1	8.6	28	182	180	9.3
11	130	4.6	5.0	191	5.5	5.7	7.4	8.3	28	182	180	9.3
12	129	4.6	4.8	99	5.5	5.7	7.4	8.3	27	182	243	9.3
13	129	4.6	4.8	4.8	5.5	5.7	7.4	8.3	27	182	297	9.3
14	129	4.8	4.6	5.7	5.5	5.7	7.1	7.7	27	182	294	9.3
15	129	4.6	4.6	12	5.5	10	7.1	7.7	27	182	370	9.3
16	129	4.6	4.6	6.8	5.7	43	6.8	47	27	182	442	9.3
17	128	4.6	4.6	5.7	9.3	68	6.5	86	27	182	442	9.3
18	128	4.8	4.6	5.2	7.7	72	6.2	86	27	182	442	9.3
19	128	5.0	4.8	5.0	9.6	72	6.2	86	14	182	442	9.3
20	128	4.8	4.8	5.0	15	70	5.9	86	4.1	182	458	9.3
21	128	4.8	4.8	5.0	20	70	5.9	86	5.9	182	470	9.3
22	128	4.8	4.8	5.0	13	69	5.7	98	11	182	474	9.3
23	65	4.8	4.8	5.0	16	68	5.7	116	11	182	474	9.3
24	2.1	4.8	5.0	5.0	11	68	5.9	116	11	182	474	9.3
25	2.1	4.8	5.2	5.0	8.9	77	6.2	116	11	182	478	9.3
26	2.1	4.8	103	5.0	8.3	86	6.8	116	11	182	478	9.3
27	2.1	4.8	191	5.0	7.7	86	7.4	116	11	182	478	9.3
28	2.1	4.8	191	5.0	7.1	91	7.4	114	11	182	478	9.3
29	2.1	4.8	191	5.0	6.8	101	8.0	114	11	182	478	9.3
30	2.1	4.8	191	5.2	------	116	8.3	114	11	182	474	9.3
31	2.1	------	191	5.2	------	142	------	114	------	182	474	------
TOTAL	2,924.8	124.4	1,180.4	2,305.6	228.9	1,393.0	301.5	1,747.6	1,122.0	5,401	10,650	4,397.3
MEAN	94.3	4.15	38.1	74.4	7.89	44.9	10.1	56.4	37.4	174	344	147
MAX	130	5.0	191	191	20	142	108	116	116	186	478	506
MIN	2.1	2.1	4.6	4.8	5.2	5.7	5.7	7.7	4.1	11	180	9.3
AC-FT	5,800	247	2,340	4,570	454	2,760	598	3,470	2,230	10,710	21,120	8,720

CAL YR 1967 TOTAL 48,846.4 MEAN 134 MAX 1,120 MIN 2.1 AC-FT 96,890 MEAN† 123 AC-FT† 89,390
WTR YR 1968 TOTAL 31,776.5 MEAN 86.8 MAX 506 MIN 2.1 AC-FT 63,030 MEAN† 68.5 AC-FT† 49,720

† ADJUSTED FOR CHANGE IN CONTENTS IN LITTLE GRASS VALLEY RESERVOIR.

11395030 SOUTH FORK FEATHER RIVER BELOW LITTLE GRASS VALLEY DAM, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.3	8.0	5.9	5.9	291	103	240	300	268	10	214	216
2	9.3	7.1	5.9	5.9	250	89	240	315	414	10	214	216
3	8.9	8.3	5.9	5.9	204	83	240	330	370	10	214	216
4	8.6	7.1	5.7	5.9	172	73	240	327	16	10	214	216
5	8.6	5.9	5.7	5.9	191	62	240	321	15	10	216	129
6	8.6	5.7	5.7	5.9	193	63	240	342	14	10	216	9.6
7	8.6	5.5	5.7	5.9	160	186	240	418	13	10	216	9.6
8	8.6	5.5	5.7	5.9	132	235	240	522	13	10	214	9.6
9	8.6	5.5	5.9	5.9	145	228	240	600	11	10	214	9.6
10	8.6	5.7	7.4	5.9	140	228	240	675	11	9.6	214	9.6
11	8.9	5.9	7.1	5.9	148	228	240	725	11	9.3	212	9.6
12	122	6.8	6.2	5.9	158	228	240	765	11	9.3	214	9.6
13	195	5.9	6.2	10	132	228	240	765	11	9.3	214	9.6
14	85	5.9	6.2	11	124	228	240	755	11	9.3	212	9.6
15	6.5	5.7	6.2	8.3	168	230	109	715	100	9.3	212	9.6
16	6.5	5.7	6.2	7.7	160	228	7.4	675	175	9.3	212	9.6
17	6.5	6.2	5.9	7.4	124	228	7.7	680	177	9.3	212	9.6
18	6.5	7.4	5.9	8.0	99	228	8.6	700	177	9.3	212	9.6
19	6.5	6.8	5.9	26	92	230	8.6	498	177	9.3	214	9.6
20	6.5	6.5	5.7	44	88	230	8.9	214	175	9.3	214	9.6
21	6.5	6.2	5.7	34	85	230	10	186	175	9.3	214	9.6
22	6.5	5.9	5.7	13	76	232	11	195	175	9.3	214	9.6
23	8.0	5.9	5.7	77	91	232	11	208	140	9.3	214	9.6
24	10	6.2	5.7	241	102	235	8.9	220	63	9.3	214	9.6
25	10	5.9	5.7	510	114	235	8.3	225	18	9.3	214	9.6
26	10	5.9	5.7	1,090	101	235	19	238	10	9.6	216	9.6
27	10	5.7	5.7	1,100	85	235	69	248	10	9.6	216	9.6
28	10	5.9	5.7	828	104	238	124	252	10	9.6	216	9.6
29	10	5.9	5.7	595	------	238	189	255	10	98	216	9.6
30	10	5.9	5.7	462	------	238	262	255	10	216	214	9.6
31	10	------	5.9	327	------	238	------	260	------	216	214	------
TOTAL	638.6	186.5	183.9	5,470.2	3,929	6,222	4,222.4	13,184	2,791	797.9	6,636	1,233.0
MEAN	20.6	6.22	5.93	176	140	201	141	425	93.0	25.7	214	41.1
MAX	195	8.3	7.4	1,100	291	238	262	765	414	216	216	216
MIN	6.5	5.5	5.7	5.9	76	62	7.4	186	10	9.3	212	9.6
AC-FT	1,270	370	365	10,850	7,790	12,340	8,380	26,150	5,540	1,580	13,160	2,450

CAL YR 1968 TOTAL 28,555.9 MEAN 78.0 MAX 506 MIN 4.1 AC-FT 56,640 MEAN† 76.0 AC-FT† 55,040
WTR YR 1969 TOTAL 45,494.5 MEAN 125 MAX 1,100 MIN 5.5 AC-FT 90,240 MEAN† 160 AC-FT† 115,600

† ADJUSTED FOR CHANGE IN CONTENTS IN LITTLE GRASS VALLEY RESERVOIR.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	338	3.8	6.2	275	196	8.1	8.2	7.8	120	191	186
2	9.4	338	3.8	6.2	225	179	8.1	8.4	14	120	191	186
3	118	335	3.0	6.2	189	153	8.1	8.8	18	120	191	186
4	218	335	3.0	6.2	168	144	8.1	9.0	18	120	149	186
5	218	335	3.0	6.2	151	132	8.1	9.0	18	120	117	186
6	218	335	3.0	6.2	137	117	8.2	9.0	18	120	117	186
7	216	335	3.0	6.0	124	116	8.4	8.8	18	118	117	186
8	216	335	3.0	6.2	111	142	8.4	8.8	18	118	117	203
9	216	335	4.2	9.4	109	124	8.5	9.0	18	118	117	216
10	319	335	5.6	10	104	127	8.7	9.0	18	118	117	216
11	407	172	5.6	8.3	104	114	8.8	8.8	18	118	117	216
12	407	7.3	6.6	10	138	105	8.7	8.7	18	118	117	216
13	407	4.0	6.9	19	189	101	8.5	8.7	18	118	117	216
14	404	4.0	6.0	286	186	117	8.5	8.8	19	118	117	216
15	404	4.0	5.8	690	168	132	8.4	8.8	14	118	117	216
16	400	4.0	5.8	1,120	168	138	8.4	9.0	7.7	118	117	216
17	400	4.0	5.8	1,330	189	144	8.2	8.8	7.5	118	117	216
18	365	4.0	5.8	1,040	166	140	8.1	8.7	7.5	118	117	216
19	350	4.0	12	896	144	62	8.1	8.4	7.5	118	117	216
20	379	3.8	19	822	124	8.1	8.1	8.2	7.5	148	117	216
21	356	3.8	31	1,180	111	8.1	8.1	8.2	7.5	191	116	216
22	347	3.8	9.4	2,400	106	8.1	8.1	8.2	7.5	191	116	216
23	347	3.8	11	1,970	101	8.2	8.1	8.2	7.4	191	116	216
24	344	3.8	21	2,230	91	8.4	8.1	8.1	7.4	191	116	216
25	344	3.8	15	1,390	85	8.4	8.1	8.1	7.4	191	116	216
26	341	3.8	9.1	1,060	83	8.4	8.1	8.1	7.4	191	116	216
27	341	3.8	7.7	930	81	8.2	8.1	8.0	7.4	191	116	216
28	341	3.8	7.2	690	104	8.2	8.1	8.0	7.4	191	116	216
29	341	3.8	6.9	521	------	8.2	8.1	8.0	16	191	116	216
30	341	3.8	6.6	400	------	8.2	8.1	7.8	80	191	116	216
31	341	------	6.4	336	------	8.1	------	7.8	------	160	141	------
TOTAL	9,464.8	3,605.1	246.0	19,397.1	3,931	2,581.6	247.5	263.4	445.9	4,472	3,895	6,257
MEAN	305	120	7.94	626	140	83.3	8.25	8.50	14.9	144	126	209
MAX	407	338	31	2,400	275	196	8.8	9.0	80	191	191	216
MIN	9.4	3.8	3.0	6.0	81	8.1	8.1	7.8	7.4	118	116	186
AC-FT	18,770	7,150	488	38,470	7,800	5,120	491	522	884	8,870	7,730	12,410

CAL YR 1969 TOTAL 57,801.4 MEAN 158 MAX 1,100 MIN 3.0 AC-FT 114,600 MEAN† 175 AC-FT† 127,000
WTR YR 1970 TOTAL 54,806.4 MEAN 150 MAX 2,400 MIN 3.0 AC-FT 108,700 MEAN† 127 AC-FT† 92,200

† ADJUSTED FOR CHANGE IN CONTENTS IN LITTLE GRASS VALLEY RESERVOIR.

11395200 SOUTH FORK FEATHER RIVER BELOW DIVERSION DAM, NEAR STRAWBERRY VALLEY, CALIF.

LOCATION.--Lat 39°38'51", long 121°07'04", in NE¼SE¼ sec.30, T.21 N., R.8 E., Plumas County, Plumas National Forest, on right bank 0.1 mile downstream from diversion dam, 3.1 miles upstream from Rock Creek, and 5.8 miles north of Strawberry Valley.

DRAINAGE AREA.--37.7 sq mi.

PERIOD OF RECORD.--October 1960 to September 1970.

GAGE.--Water-stage recorder. Concrete control since Nov. 7, 1962. Datum of gage is 3,535.02 ft above mean sea level (levels by Oroville-Wyandotte Irrigation District).

AVERAGE DISCHARGE.--10 years, 150 cfs (108,700 acre-ft per year), adjusted for diversion to South Fork tunnel.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Nov. 17, 1965	29	2.72	Jan. 8, 9, 11-15, 1966	5.2
1967	May 24, 1967	1,300	7.00	Dec. 29, 1966, Jan. 8-19, 1967	5.2
1968	Feb. 23, 1968	696	5.53	Jan. 18-23, 1968	.70
1969	Jan. 26, 1969	2,450	8.93	Sept. 9-15, 1969	7.2
1970	Jan. 22, 1970	3,770	10.64	Jan. 9, 11, 12, 1970	2.8

Period of record: Maximum discharge, 6,330 cfs Jan. 31, 1963 (gage height, 13.21 ft), from rating curve extended above 500 cfs on basis of computation of peak flow over diversion dam; minimum daily, 0.30 cfs Dec. 25, 1962, to Jan. 2, 1963, Mar. 1-3, 1963.

REMARKS.--Records good. Flow regulated by Little Grass Valley Reservoir (see station 11395020). South Fork diversion tunnel (maximum capacity, about 600 cfs), 500 ft upstream, diverts to Sly Creek Reservoir (see station 11395400); diversion began in November 1961. See schematic diagram of South Fork Feather River basin elsewhere in this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1	8.0	6.0	5.4	6.0	6.2	6.5	9.8	9.1	8.8	12	9.8
2	9.1	6.2	6.0	5.4	6.0	6.2	6.5	9.4	9.1	8.8	12	9.8
3	9.1	6.2	6.0	5.4	6.0	6.2	6.5	9.4	9.1	8.8	12	9.8
4	9.1	6.2	6.0	5.6	6.0	6.2	6.5	9.4	9.1	8.8	12	9.8
5	9.1	6.2	6.0	6.0	6.0	6.2	6.5	9.4	9.1	8.8	12	9.8
6	9.1	6.2	6.0	5.6	6.2	6.2	6.5	9.4	9.1	9.4	12	9.8
7	9.1	6.2	6.0	5.4	6.2	6.2	6.5	9.4	9.1	9.8	12	9.8
8	9.4	6.5	6.0	5.2	6.2	6.2	6.5	9.1	9.1	9.8	12	10
9	9.8	6.5	6.0	5.2	6.2	6.2	6.8	9.1	9.1	10	12	10
10	9.8	6.5	6.0	5.4	6.2	6.2	7.0	9.4	8.8	10	12	10
11	9.8	6.5	6.0	5.2	6.2	6.2	7.0	9.8	8.8	10	11	10
12	9.8	6.5	6.0	5.2	6.2	6.2	6.8	10	8.8	10	10	10
13	9.8	6.8	6.0	5.2	6.2	6.5	6.5	10	8.8	10	10	10
14	9.8	7.9	5.8	5.2	6.2	6.5	6.5	10	8.8	10	10	10
15	9.8	7.6	5.6	5.2	6.2	6.5	6.5	11	8.5	10	10	10
16	9.8	7.0	5.6	5.4	6.2	6.5	6.5	11	8.5	10	10	10
17	9.8	8.0	5.6	5.4	6.2	6.5	6.5	11	8.5	11	9.8	10
18	9.8	7.0	5.6	5.6	6.2	6.5	6.5	11	8.5	11	9.8	10
19	9.4	6.5	5.6	5.6	6.2	6.5	6.5	11	8.5	11	9.8	9.8
20	8.2	6.2	5.6	5.6	6.2	6.5	6.5	11	8.5	11	9.8	9.8
21	8.2	6.0	5.6	5.8	6.2	6.5	6.2	11	8.5	11	9.8	9.8
22	8.2	6.0	5.6	5.8	6.2	6.5	6.2	11	8.5	11	9.8	9.8
23	8.2	6.2	5.6	5.6	6.2	6.5	6.2	10	8.8	11	9.8	9.8
24	8.2	6.5	5.6	5.6	6.5	6.5	6.2	10	8.8	11	9.8	9.8
25	8.5	6.2	5.6	5.6	6.5	6.5	6.2	10	8.8	11	9.8	9.8
26	8.5	6.2	5.6	5.8	6.5	6.5	6.2	10	8.8	11	9.8	9.8
27	8.5	6.2	5.4	5.8	6.2	6.5	6.2	10	8.8	11	9.8	9.8
28	8.5	6.0	5.6	5.8	6.2	6.5	7.9	10	8.8	11	9.8	9.8
29	8.8	6.0	5.4	5.8	------	6.5	10	10	8.8	12	9.8	9.8
30	8.8	6.0	5.4	5.8	------	6.5	10	10	8.8	12	9.8	9.8
31	8.8	------	5.4	5.8	------	6.5	------	10	------	12	9.8	------
TOTAL	281.9	196.0	178.2	171.4	173.5	197.9	202.9	311.6	264.3	321.0	328.0	296.2
MEAN	9.09	6.53	5.75	5.53	6.20	6.38	6.76	10.1	8.81	10.4	10.6	9.87
MAX	9.8	8.0	6.0	6.0	6.5	6.5	10	11	9.1	12	12	10
MIN	8.2	6.0	5.4	5.2	6.0	6.2	6.2	9.1	8.5	8.8	9.8	9.8
AC-FT	559	389	353	340	344	393	402	618	524	637	651	588
MEAN†	172	27.7	18.2	27.5	29.2	92.5	156	142	21.8	166	185	186
AC-FT†	10,600	1,650	1,120	1,690	1,620	5,690	9,310	8,760	1,300	10,220	11,390	11,040
(‡)	10,040	1,260	767	1,350	1,280	5,300	8,910	8,140	776	9,580	10,740	10,450

CAL YR 1965 TOTAL 9,681.3 MEAN 26.5 MAX 1,250 MIN 4.4 AC-FT 19,200 MEAN† 166 AC-FT† 120,300
WTR YR 1966 TOTAL 2,922.9 MEAN 8.01 MAX 12 MIN 5.2 AC-FT 5,800 MEAN† 103 AC-FT† 74,390

† ADJUSTED FOR DIVERSION TO SOUTH FORK TUNNEL.
‡ DIVERSION, IN ACRE-FEET, FROM SOUTH FORK FEATHER RIVER TO SOUTH FORK DIVERSION TUNNEL.

11395200 SOUTH FORK FEATHER RIVER BELOW DIVERSION DAM, NEAR STRAWBERRY VALLEY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	8.8	5.8	5.4	5.8	5.6	6.5	7.0	237	14	13	13
2	9.8	6.2	6.5	5.4	5.6	5.6	6.5	7.0	225	14	13	14
3	9.8	6.5	6.2	5.4	5.6	5.6	6.5	7.0	225	14	13	14
4	9.8	6.5	6.5	5.4	5.6	5.6	6.2	7.0	254	13	13	14
5	9.8	6.5	6.8	5.4	5.4	5.6	6.2	7.0	236	13	13	14
6	9.8	7.0	6.5	5.4	5.4	5.6	6.2	7.0	183	13	13	14
7	9.1	6.8	6.2	5.4	5.4	5.4	6.2	7.0	80	13	13	14
8	10	6.8	5.8	5.2	5.6	5.4	6.2	7.0	14	13	13	14
9	10	6.8	5.6	5.2	5.6	5.4	6.0	7.0	14	13	13	14
10	10	6.8	5.6	5.2	5.4	5.4	6.0	7.0	14	13	13	14
11	10	6.8	5.6	5.2	5.4	5.6	6.0	7.0	14	13	13	14
12	10	6.8	5.6	5.2	5.6	5.6	6.0	7.0	14	12	13	13
13	10	6.8	5.6	5.2	5.6	5.4	6.0	7.0	14	12	13	13
14	10	6.0	5.6	5.2	5.6	5.4	6.0	7.0	14	13	13	13
15	10	5.6	5.4	5.2	5.6	5.4	6.0	7.0	24	13	13	13
16	11	6.2	5.4	5.2	5.6	265	6.0	7.0	76	13	13	13
17	11	5.8	5.4	5.2	5.6	481	6.0	7.0	116	13	13	13
18	11	5.8	5.4	5.2	5.6	368	6.0	7.0	115	13	13	14
19	11	6.0	5.4	5.2	5.6	199	6.0	9.4	113	13	13	14
20	10	6.2	5.4	5.4	5.6	113	6.0	12	107	13	13	14
21	9.4	6.0	5.6	6.8	5.6	29	6.2	12	153	13	13	14
22	9.1	5.6	5.6	6.2	5.8	7.3	6.2	12	49	13	13	13
23	9.1	5.6	5.6	6.0	5.8	71	6.2	361	14	13	13	13
24	9.1	5.6	5.6	6.0	5.8	26	6.2	1,000	14	13	13	13
25	9.1	5.6	5.4	5.8	5.8	6.8	6.2	960	14	13	13	13
26	9.1	5.6	5.4	5.8	5.6	6.8	6.5	765	14	13	13	13
27	9.1	5.6	5.4	5.8	5.6	6.8	7.0	449	14	13	13	13
28	9.1	5.8	5.2	6.2	5.6	6.8	7.0	316	14	13	13	13
29	9.1	6.0	5.2	69	------	6.8	7.0	274	14	13	13	12
30	9.1	5.6	5.4	6.2	------	6.8	7.0	259	14	13	13	12
31	9.1	------	5.4	6.0	------	6.8	------	244	------	13	12	------
TOTAL	302.3	187.7	176.1	235.4	156.8	1,689.5	188.0	4,799.4	2,403	404	402	402
MEAN	9.75	6.26	5.68	7.59	5.60	54.5	6.27	155	80.1	13.0	13.0	13.4
MAX	11	8.8	6.8	69	5.8	481	7.0	1,000	254	14	13	14
MIN	9.1	5.6	5.2	5.2	5.4	5.4	6.0	7.0	14	12	12	12
AC-FT	600	372	349	467	311	3,350	373	9,520	4,770	801	797	797
MEAN†	6,280	2,510	5,870	7,020	8,570	18,030	4,990	15,210	21,460	6,640	6,140	14,000
AC-FT†	112	48.4	101	122	160	348	90.1	402	441	121	113	249
(‡)	6,880	2,880	6,220	7,490	8,880	21,380	5,360	24,730	26,230	7,440	6,940	14,800

CAL YR 1966 TOTAL 2,932.9 MEAN 8.04 MAX 12 MIN 5.2 AC-FT 5,820 MEAN† 106 AC-FT† 77,000
WTR YR 1967 TOTAL 11,346.2 MEAN 31.1 MAX 1,000 MIN 5.2 AC-FT 22,510 MEAN† 192 AC-FT† 139,200

† ADJUSTED FOR DIVERSION TO SOUTH FORK TUNNEL.
‡ DIVERSION, IN ACRE-FEET, FROM SOUTH FORK FEATHER RIVER TO SOUTH FORK DIVERSION TUNNEL.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	6.8	4.6	4.9	17	13	13	13	12	12	14	14
2	13	6.8	4.6	4.9	14	13	13	13	12	12	14	14
3	13	6.8	4.6	4.9	14	13	13	13	13	12	14	14
4	13	6.8	4.6	4.9	13	13	13	12	13	12	14	14
5	13	6.8	4.6	4.9	13	12	13	12	13	12	14	14
6	13	6.8	4.6	4.9	13	12	13	12	13	13	14	14
7	13	6.8	4.6	4.9	13	12	13	12	13	13	14	14
8	13	8.8	4.6	4.9	13	12	13	12	12	13	14	14
9	13	9.6	4.6	4.9	13	13	13	12	12	13	14	14
10	13	9.6	4.6	4.9	13	13	13	12	12	13	14	13
11	13	10	4.6	4.9	13	13	13	12	12	13	14	12
12	13	10	4.6	4.9	13	13	13	12	12	13	13	12
13	13	10	4.6	4.9	13	13	13	12	12	13	13	12
14	13	15	4.6	4.6	13	13	13	12	12	13	13	12
15	13	10	4.6	5.2	13	13	13	12	12	13	13	12
16	13	10	4.6	5.2	13	13	13	12	12	13	13	12
17	13	9.6	4.6	4.8	14	13	13	12	12	14	13	12
18	13	11	6.8	.70	14	13	13	12	12	14	13	12
19	13	27	6.4	.70	14	13	13	13	12	14	13	12
20	13	15	5.2	.70	15	13	13	13	12	14	13	12
21	13	11	4.9	.70	21	13	13	13	12	14	13	12
22	13	10	4.6	.70	14	13	13	13	12	14	13	12
23	13	10	4.6	.70	29	13	13	13	12	14	13	12
24	12	10	4.6	3.2	14	13	13	13	12	14	13	12
25	9.9	10	4.6	13	14	13	13	12	12	14	13	12
26	8.4	10	4.6	13	13	12	13	13	12	14	14	12
27	7.4	10	4.6	13	13	12	13	13	12	14	14	12
28	7.0	8.3	4.9	13	13	12	13	13	12	14	14	12
29	7.0	4.3	4.9	18	13	12	13	13	12	14	14	12
30	6.7	4.6	4.9	26	------	13	13	13	12	14	14	12
31	6.7	------	4.9	22	------	13	------	13	------	14	14	------
TOTAL	363.1	291.4	148.7	208.90	415	395	390	387	365	413	420	379
MEAN	11.7	9.71	4.80	6.74	14.3	12.7	13.0	12.5	12.2	13.3	13.5	12.6
MAX	13	27	6.8	26	29	13	13	13	13	14	14	14
MIN	6.7	4.3	4.6	.70	13	12	13	12	12	12	13	12
AC-FT	720	578	295	414	823	783	774	768	724	819	833	752
MEAN†	114	10.1	48.7	109	154	129	84.6	83.9	47.8	176	347	148
AC-FT†	7,030	604	3,000	6,730	8,850	7,920	5,030	5,160	2,840	10,810	21,340	8,790
(‡)	6,310	26	2,700	6,010	8,030	7,140	4,260	4,390	2,120	9,990	20,510	8,040

CAL YR 1967 TOTAL 11,483.30 MEAN 31.5 MAX 1,000 MIN 4.3 AC-FT 22,780 MEAN† 185 AC-FT† 133,900
WTR YR 1968 TOTAL 4,176.10 MEAN 11.4 MAX 29 MIN .70 AC-FT 8,280 MEAN† 121 AC-FT† 88,120

† ADJUSTED FOR DIVERSION TO SOUTH FORK TUNNEL.
‡ DIVERSION, IN ACRE-FEET, FROM SOUTH FORK FEATHER RIVER TO SOUTH FORK DIVERSION TUNNEL.

11395200 SOUTH FORK FEATHER RIVER BELOW DIVERSION DAM, NEAR STRAWBERRY VALLEY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	10	9.6	9.6	335	8.8	475	12	14	11	9.2	10
2	12	10	9.6	9.6	256	8.8	445	12	14	11	9.2	10
3	12	10	9.6	9.6	200	8.8	394	11	46	11	9.2	10
4	12	10	9.6	9.6	159	8.8	373	11	12	11	9.6	9.6
5	12	10	9.6	9.6	170	8.8	439	12	12	11	9.6	9.2
6	12	9.6	9.2	9.6	167	8.4	400	12	11	11	9.6	8.0
7	12	9.6	9.2	9.6	123	8.4	370	27	11	11	9.6	7.6
8	12	9.6	9.6	9.6	89	8.8	362	107	11	11	9.2	7.6
9	12	9.6	9.2	9.6	110	8.8	358	209	11	11	9.6	7.2
10	12	9.6	9.6	9.6	108	8.8	362	312	11	11	9.6	7.2
11	12	9.6	9.6	9.6	114	8.8	385	379	11	11	9.6	7.2
12	12	10	9.6	10	134	9.2	418	433	11	11	9.6	7.2
13	12	9.6	9.6	11	98	9.2	427	442	12	11	10	7.2
14	12	9.6	9.6	11	152	9.2	406	430	12	11	10	7.2
15	11	9.6	10	10	254	9.2	280	305	12	9.4	10	7.2
16	11	9.6	10	10	243	9.2	144	284	12	8.4	10	12
17	11	9.6	9.6	9.6	107	9.2	68	272	13	8.4	10	8.8
18	10	9.6	10	9.6	8.8	9.6	11	305	13	8.4	10	10
19	9.6	9.6	10	84	8.8	9.6	11	189	13	8.4	10	8.8
20	9.6	9.6	10	894	8.8	9.6	11	15	13	8.4	10	8.8
21	9.6	9.6	10	1,050	8.8	9.6	11	15	13	8.4	10	8.8
22	9.6	9.6	10	211	8.4	9.6	12	14	13	8.4	10	8.8
23	9.6	9.6	10	11	8.4	9.2	12	14	13	8.4	10	8.8
24	9.6	9.6	10	14	8.8	9.2	12	14	13	8.4	10	9.2
25	9.6	9.6	10	512	8.8	125	12	14	12	8.4	10	9.2
26	9.6	9.6	10	1,940	8.8	292	12	14	11	8.4	10	8.8
27	9.6	9.6	9.6	1,440	8.4	308	11	14	11	8.4	10	8.8
28	9.6	9.6	9.6	1,090	8.8	338	11	14	11	8.4	10	8.8
29	10	9.6	10	778	------	362	11	14	11	8.8	10	8.8
30	10	9.6	10	594	------	400	11	14	11	9.2	10	8.8
31	10	------	10	431	------	454	------	14	------	9.2	10	------
TOTAL	337.0	290.4	302.0	9,225.8	2,914.6	2,496.6	6,254	3,934	394	299.8	303.6	259.6
MEAN	10.9	9.68	9.74	298	104	80.5	208	127	13.1	9.67	9.79	8.65
MAX	12	10	10	1,940	335	454	475	442	46	11	10	12
MIN	9.6	9.6	9.2	9.6	8.4	8.4	11	11	11	8.4	9.2	7.2
AC-FT	668	576	599	18,300	5,780	4,950	12,400	7,800	781	595	602	515
MEAN†	27.6	23.9	35.5	462	226	262	308	546	122	33.8	200	47.1
AC-FT†	1,700	1,420	2,180	28,380	12,540	16,130	18,320	33,570	7,230	2,080	12,270	2,800
(‡)	1,030	842	1,580	10,080	6,760	11,180	5,920	25,770	6,450	1,490	11,670	2,280

CAL YR 1968 TOTAL 4,302.30 MEAN 11.8 MAX 29 MIN .70 AC-FT 8,530 MEAN† 114 AC-FT† 82,770
WTR YR 1969 TOTAL 27,011.40 MEAN 74.0 MAX 1,940 MIN 7.2 AC-FT 53,580 MEAN† 191 AC-FT† 138,600

† ADJUSTED FOR DIVERSION TO SOUTH FORK TUNNEL.
‡ DIVERSION, IN ACRE-FEET, FROM SOUTH FORK FEATHER RIVER TO SOUTH FORK DIVERSION TUNNEL.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	11	4.3	3.5	348	4.3	3.6	9.8	9.8	9.5	9.2	9.5
2	9.6	11	4.3	3.5	177	4.0	3.6	9.8	9.8	9.5	9.2	9.5
3	9.6	11	4.3	3.5	4.0	4.0	3.6	9.8	9.8	9.5	9.2	9.5
4	10	8.6	4.3	3.5	4.0	4.0	3.6	9.8	9.8	9.5	9.2	9.8
5	10	5.2	4.3	3.5	4.0	4.0	3.6	9.8	9.8	9.2	9.2	9.8
6	10	5.2	4.3	14	3.8	3.8	3.6	9.8	9.8	9.2	9.2	9.8
7	12	5.2	4.3	3.0	3.8	3.8	3.6	9.8	9.8	9.2	9.2	9.8
8	13	5.2	4.3	5.4	3.8	3.8	3.6	9.8	9.8	9.5	9.2	9.8
9	10	5.2	4.3	2.8	3.8	3.8	3.6	9.8	9.8	9.5	9.2	9.2
10	10	5.2	4.3	3.0	3.8	3.8	3.6	9.8	9.8	9.5	9.2	9.0
11	22	5.2	4.3	2.8	3.8	3.8	3.6	9.8	9.8	9.8	9.2	9.0
12	11	8.9	4.6	2.8	4.0	3.8	3.6	9.8	9.8	10	9.2	8.8
13	11	4.0	4.6	38	4.0	3.8	3.6	9.8	9.8	10	9.2	8.8
14	12	4.0	4.6	846	4.0	3.8	3.6	9.8	9.8	9.8	9.2	8.8
15	12	4.3	4.3	766	4.0	3.8	3.6	9.8	9.8	9.8	9.2	8.8
16	15	4.3	4.3	2,000	4.0	3.8	3.6	9.8	9.8	9.5	9.2	9.0
17	13	4.3	4.3	2,240	4.0	3.8	3.6	9.8	9.5	9.5	9.2	9.0
18	13	4.3	4.6	1,600	3.8	3.8	3.6	9.8	9.5	9.2	9.2	9.0
19	13	6.8	4.9	1,260	3.8	3.8	3.6	9.8	9.5	9.2	9.5	9.0
20	13	4.3	4.9	1,220	3.6	3.8	3.6	9.8	9.5	9.5	9.5	9.0
21	33	4.3	107	2,320	3.6	3.8	3.6	9.8	9.5	9.5	9.5	9.0
22	62	4.3	14	3,030	3.6	3.8	3.6	9.8	9.5	9.5	9.5	9.0
23	50	4.3	3.8	2,540	3.6	3.8	3.6	9.8	9.5	9.2	9.5	9.0
24	34	4.3	24	2,720	3.4	3.8	3.6	9.8	9.5	9.2	9.5	8.8
25	12	4.3	4.0	1,780	3.4	3.6	3.6	9.8	9.2	9.2	9.5	8.8
26	11	4.3	3.8	1,220	3.4	3.6	3.6	9.8	9.2	9.2	9.5	8.8
27	11	4.3	3.8	1,250	3.6	3.6	3.6	9.8	9.2	9.2	9.5	8.8
28	11	4.3	3.8	908	4.0	3.6	3.6	9.8	9.5	9.2	9.5	8.8
29	11	4.3	3.5	676	------	3.6	3.6	9.8	9.5	9.5	9.5	8.8
30	11	4.3	3.8	535	------	3.6	6.1	9.8	9.5	9.5	9.5	8.8
31	11	------	3.8	429	------	3.6	------	9.8	------	9.5	9.5	------
TOTAL	495.4	166.2	263.7	27,429.3	623.6	117.7	110.5	303.8	288.9	293.1	289.1	273.5
MEAN	16.0	5.54	8.51	885	22.3	3.80	3.68	9.80	9.63	9.45	9.33	9.12
MAX	62	11	107	3,030	348	4.3	6.1	9.8	9.8	10	9.5	9.8
MIN	9.2	4.0	3.5	2.8	3.4	3.6	3.6	9.8	9.2	9.2	9.2	8.8
AC-FT	983	330	523	54,410	1,240	233	219	603	573	581	573	542
MEAN†	312	123	124	1,050	198	155	36.6	28.8	27.7	147	130	211
AC-FT†	19,170	7,300	7,620	64,550	11,010	9,510	2,180	1,770	1,650	9,040	8,000	12,540
(‡)	18,190	6,970	7,100	10,140	9,770	9,280	1,960	1,170	1,080	8,460	7,430	12,020

CAL YR 1969 TOTAL 27,007.3 MEAN 74.0 MAX 1,940 MIN 3.5 AC-FT 53,570 MEAN† 231 AC-FT† 167,400
WTR YR 1970 TOTAL 30,654.8 MEAN 84.0 MAX 3,030 MIN 2.8 AC-FT 60,800 MEAN† 213 AC-FT† 154,300

† ADJUSTED FOR DIVERSION TO SOUTH FORK TUNNEL.
‡ DIVERSION, IN ACRE-FEET, FROM SOUTH FORK FEATHER RIVER TO SOUTH FORK DIVERSION TUNNEL.

11395300 LOST CREEK ABOVE SLY CREEK RESERVOIR, CALIF.

LOCATION.--Lat 39°37'05", long 121°05'19", in NE¼SW¼ sec.4, T.20 N., R.8 E., Plumas County, Plumas National Forest, on left bank 0.4 mile upstream from French Creek and 3.8 miles north of Strawberry Valley.

DRAINAGE AREA.--14.1 sq mi.

PERIOD OF RECORD.--October 1960 to September 1970 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 3,570 ft (from topographic map).

AVERAGE DISCHARGE.--10 years, 58.0 cfs (42,020 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (300 cfs, revised), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Jan. 6, 1966	0530	*560	4.11	Mar. 23, 1967	0700	336	3.55	Dec. 21, 1969	1130	995	4.90
Apr. 10, 1966	0130	454	3.86	May 21, 1967	1700	402	3.73	Dec. 24, 1969	0300	918	4.79
								Jan. 9, 1970	2130	490	3.95
Nov. 29, 1966	0200	375	3.66	Jan. 15, 1968	0230	360	3.62	Jan. 14, 1970	1030	1,720	5.75
Dec. 2, 1966	2030	685	4.38	Feb. 21, 1968	0630	*800	4.60	Jan. 16, 1970	0800	1,820	5.86
Dec. 5, 1966	0600	357	3.61					Jan. 21, 1970	2230	*2,150	6.16
Jan. 21, 1967	1900	609	4.22	Jan. 13, 1969	1830	430	3.80	Jan. 23, 1970	2400	2,090	6.11
Jan. 29, 1967	0730	*1,070	5.00	Jan. 21, 1969	0200	2,210	6.21	Jan. 27, 1970	0330	789	4.58
Mar. 16, 1967	1700	745	4.50	Jan. 26, 1969	0330	*2,380	6.35	Mar. 1, 1970	1000	357	3.61

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Sept.28-30, 1966	4.2	1969	Oct. 1-10, 1968	5.1
1967	Many days	4.1	1970	Sept.25-30, 1970	4.9
1968	Sept.29, 30, 1968	4.9			

Period of record: Maximum discharge, 5,640 cfs Dec. 22, 1964 (gage height, 8.48 ft, from floodmarks in gage well, 9.66 ft, from outside floodmarks), from rating curve extended above 250 cfs on basis of slope-area measurements at gage heights 5.97 and 7.87 ft; minimum, 3.2 cfs Oct. 7-10, 1961.

REMARKS.--Records good. No gage-height record Apr. 1 to June 3, 1969. No regulation or diversion above station. See schematic diagram of South Fork Feather River basin elsewhere in this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	7.0	15	41	16	21	178	70	20	12	8.7	5.8
2	7.3	7.0	15	36	16	21	183	69	20	12	8.4	5.5
3	7.3	7.0	15	36	15	23	178	68	20	12	8.0	5.2
4	7.3	7.0	15	42	18	21	167	67	19	11	7.7	4.9
5	7.7	7.0	16	161	32	20	165	64	19	11	7.7	4.9
6	8.0	7.0	16	378	28	21	167	59	19	11	7.3	4.9
7	7.7	7.0	16	268	24	23	163	55	19	11	7.3	4.9
8	7.0	11	16	138	22	24	152	52	19	11	7.3	4.9
9	7.0	8.7	16	82	20	34	178	52	18	11	7.3	4.9
10	7.0	8.0	16	41	20	73	346	54	18	11	7.0	4.9
11	7.0	8.0	16	25	19	63	286	47	17	11	7.0	4.7
12	7.0	11	17	21	19	56	236	45	17	11	7.0	4.9
13	7.3	16	15	20	18	115	190	41	16	11	7.0	4.9
14	8.0	40	14	20	18	105	165	39	16	10	6.7	5.2
15	8.7	22	14	20	17	92	156	37	15	10	6.4	4.9
16	8.0	16	13	20	18	84	163	36	15	10	6.4	4.9
17	8.0	77	14	19	17	82	167	34	15	10	6.1	4.7
18	8.0	110	13	19	18	61	148	32	15	9.8	6.1	4.9
19	8.0	40	13	18	19	58	123	31	14	9.8	5.8	4.9
20	7.7	25	12	18	20	53	107	30	14	9.5	5.8	4.7
21	7.7	21	12	17	20	49	99	28	14	9.5	5.8	4.7
22	7.3	18	12	17	20	48	94	27	14	9.5	5.8	4.4
23	7.0	20	13	17	25	50	92	26	14	9.5	5.8	4.4
24	7.0	34	15	17	27	58	94	25	13	9.1	5.8	4.4
25	7.0	23	28	17	24	64	96	24	13	8.7	5.8	4.4
26	7.3	20	23	16	23	53	94	24	13	8.7	5.8	4.4
27	7.3	18	18	16	22	91	87	23	12	8.7	5.8	4.4
28	7.3	17	19	16	22	108	80	22	12	8.7	5.8	4.2
29	7.3	17	31	24	------	129	75	21	12	8.7	5.8	4.2
30	7.3	16	35	46	------	146	73	21	12	8.7	5.8	4.2
31	7.0	------	44	17	------	158	------	21	------	8.7	5.8	------
TOTAL	230.8	645.7	547	1,643	577	2,004	4,502	1,244	474	313.6	204.8	143.2
MEAN	7.45	21.5	17.6	53.0	20.6	64.6	150	40.1	15.8	10.1	6.61	4.77
MAX	8.7	110	44	378	32	158	346	70	20	12	8.7	5.8
MIN	7.0	7.0	12	16	15	20	73	21	12	8.7	5.8	4.2
AC-FT	458	1,280	1,080	3,260	1,140	3,970	8,930	2,470	940	622	406	284

CAL YR 1965 TOTAL 21,978.0 MEAN 60.2 MAX 510 MIN 7.0 AC-FT 43,590
WTR YR 1966 TOTAL 12,529.1 MEAN 34.3 MAX 378 MIN 4.2 AC-FT 24,850

11395300 LOST CREEK ABOVE SLY CREEK RESERVOIR, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	4.4	109	28	255	52	89	45	139	35	17	9.1
2	4.4	4.4	269	27	186	51	82	50	127	32	17	8.7
3	4.6	4.4	215	26	152	51	78	57	118	31	16	9.1
4	4.1	4.4	118	26	130	49	75	68	115	31	14	9.5
5	4.1	4.1	246	26	116	46	74	73	118	31	14	9.5
6	4.4	14	172	24	105	45	73	81	113	30	13	9.1
7	4.4	9.8	127	24	100	45	69	111	111	30	13	8.7
8	4.1	7.3	86	23	92	46	70	152	105	30	12	8.3
9	4.1	6.3	72	23	82	48	69	184	103	29	12	8.3
10	4.1	6.0	78	22	81	55	69	214	98	29	12	8.3
11	4.1	6.6	68	22	81	59	65	158	95	28	12	8.0
12	4.1	11	60	22	94	54	63	139	106	27	12	8.0
13	4.1	8.0	60	22	100	51	65	139	103	26	12	8.0
14	4.1	9.5	60	22	100	48	65	154	91	24	12	8.0
15	4.4	44	53	22	89	53	61	193	85	23	12	7.6
16	4.4	90	50	22	82	546	57	253	81	22	11	7.6
17	4.4	20	46	22	77	424	60	292	78	22	11	7.3
18	4.4	15	45	22	74	275	57	302	74	21	11	7.3
19	4.4	32	44	22	72	212	54	312	70	21	11	7.6
20	4.6	138	43	25	66	191	51	336	65	20	10	7.6
21	4.6	60	41	336	63	193	51	357	61	20	10	7.6
22	4.6	37	39	181	61	182	50	350	57	19	10	7.6
23	4.6	25	37	98	60	268	50	328	52	19	10	7.3
24	4.6	20	36	82	59	214	48	308	50	19	10	7.3
25	4.4	17	34	65	58	176	48	268	46	19	10	7.3
26	4.4	15	33	61	55	151	46	237	44	18	11	7.3
27	4.4	14	32	76	54	136	48	212	41	18	10	7.3
28	4.4	92	31	173	53	127	44	193	39	18	10	7.3
29	4.4	241	31	680	------	113	43	176	38	18	9.8	7.3
30	4.4	85	30	470	------	106	44	160	36	17	9.5	7.3
31	4.4	------	29	393	------	100	------	149	------	17	9.1	------
TOTAL	134.6	1,045.2	2,394	3,087	2,597	4,167	1,818	6,051	2,459	744	363.4	239.2
MEAN	4.34	34.8	77.2	99.6	92.8	134	60.6	195	82.0	24.0	11.7	7.97
MAX	4.6	241	269	680	255	546	89	357	139	35	17	9.5
MIN	4.1	4.1	29	22	53	45	43	45	36	17	9.1	7.3
AC-FT	267	2,070	4,750	6,120	5,150	8,270	3,610	12,000	4,880	1,480	721	474

CAL YR 1966 TOTAL 14,679.4 MEAN 40.2 MAX 378 MIN 4.1 AC-FT 29,120
WTR YR 1967 TOTAL 25,099.4 MEAN 68.8 MAX 680 MIN 4.1 AC-FT 49,780

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	7.3	11	14	32	129	132	61	24	11	8.3	5.7
2	31	6.9	9.8	13	36	120	119	58	24	11	8.0	5.7
3	20	6.9	15	12	38	113	106	57	22	11	7.6	5.7
4	11	6.9	26	12	38	111	103	55	22	10	7.3	5.7
5	12	6.9	51	11	37	110	100	51	22	9.8	7.3	5.7
6	11	6.9	19	11	36	102	95	48	22	9.5	6.6	5.7
7	9.5	6.9	18	12	34	95	92	43	22	9.5	6.6	5.7
8	9.1	6.9	15	12	34	94	91	41	20	9.1	6.6	5.4
9	9.1	6.9	13	12	38	85	95	40	18	9.1	6.6	5.4
10	9.1	7.3	12	12	42	78	106	39	18	9.1	6.3	5.4
11	8.7	7.3	11	13	39	73	113	38	17	9.1	6.3	5.4
12	8.3	7.3	11	14	39	70	113	36	17	8.7	6.0	5.4
13	8.3	7.3	10	13	40	69	106	38	17	8.7	6.0	5.4
14	8.0	13	11	44	39	68	98	36	16	8.7	6.6	5.7
15	7.6	9.5	12	250	38	63	95	35	16	8.7	6.9	5.7
16	7.3	8.7	11	94	44	70	92	33	15	8.7	6.9	5.4
17	7.3	8.3	11	55	191	64	84	31	14	8.7	7.3	5.1
18	7.3	9.8	11	41	147	59	78	30	14	8.7	6.6	5.4
19	7.3	36	11	35	209	58	74	30	14	8.7	12	5.1
20	7.3	14	11	32	394	57	70	30	14	8.7	11	5.1
21	7.6	11	12	32	572	57	66	30	14	8.7	11	5.1
22	8.0	9.8	12	33	398	57	64	30	14	8.3	8.7	5.1
23	8.0	9.5	12	35	446	58	61	29	13	8.3	8.0	5.1
24	8.0	9.5	12	35	312	63	61	29	12	8.0	7.6	5.1
25	8.0	9.1	12	34	224	73	61	29	12	8.0	7.3	5.1
26	8.0	9.1	15	33	191	77	63	28	12	8.0	6.9	5.1
27	8.0	9.5	21	32	172	77	64	28	12	7.6	6.9	5.1
28	8.0	9.8	20	31	158	89	64	28	12	7.6	6.9	5.1
29	7.6	13	17	30	143	111	65	27	12	7.6	6.6	4.9
30	7.6	12	16	29	------	129	64	27	11	7.6	6.0	4.9
31	7.3	------	14	28	------	138	------	26	------	7.9	6.0	------
TOTAL	292.6	293.3	462.8	1,064	4,161	2,617	2,595	1,141	492	274.1	228.7	160.4
MEAN	9.44	9.78	14.9	34.3	143	84.4	86.5	36.8	16.4	8.84	7.38	5.35
MAX	31	36	51	250	572	138	132	61	24	11	12	5.7
MIN	7.3	6.9	9.8	11	32	57	61	26	11	7.6	6.0	4.9
AC-FT	580	582	918	2,110	8,250	5,190	5,150	2,260	976	544	454	318

CAL YR 1967 TOTAL 22,574.3 MEAN 61.8 MAX 680 MIN 6.9 AC-FT 44,780
WTR YR 1968 TOTAL 13,781.9 MEAN 37.7 MAX 572 MIN 4.9 AC-FT 27,340

11395300 LOST CREEK ABOVE SLY CREEK RESERVOIR, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	8.0	12	18	143	51	220	217	110	27	13	9.5
2	5.1	24	11	18	122	48	210	210	105	26	13	9.5
3	5.1	54	10	18	110	46	175	203	95	24	12	9.5
4	5.1	27	10	19	102	44	150	200	89	24	12	9.5
5	5.1	17	10	21	100	44	195	210	81	23	12	9.1
6	5.1	14	10	22	91	43	175	245	75	22	12	9.1
7	5.1	12	10	24	81	42	150	280	69	22	12	9.1
8	5.1	11	11	25	77	41	133	300	65	21	12	9.1
9	5.1	11	12	25	84	41	132	315	63	21	12	8.7
10	5.1	9.8	84	24	86	40	131	330	60	21	12	8.7
11	6.8	13	68	29	98	39	150	345	61	20	12	8.7
12	38	48	38	39	92	39	175	340	57	19	12	8.3
13	17	21	30	257	81	38	195	315	53	19	12	8.3
14	14	17	32	217	78	38	175	290	50	19	12	8.3
15	12	17	76	110	82	38	155	262	48	19	11	8.3
16	9.8	16	52	78	74	39	150	240	46	18	11	8.3
17	9.1	17	38	64	69	43	170	240	44	17	11	8.7
18	8.3	38	31	66	68	49	210	248	45	17	11	8.7
19	8.0	29	28	593	65	49	205	230	43	17	11	8.7
20	7.6	22	27	1,600	64	49	215	210	38	17	11	8.7
21	7.6	19	29	1,770	60	51	233	200	38	16	10	9.1
22	7.6	17	27	777	58	52	252	192	35	16	9.8	9.1
23	7.3	16	26	379	61	57	248	190	35	16	9.8	9.1
24	7.3	17	51	253	58	60	200	180	33	16	9.8	8.7
25	6.9	14	49	698	55	65	182	165	32	16	9.8	8.7
26	6.9	14	35	1,250	51	72	170	157	31	16	9.8	8.7
27	6.9	13	25	519	48	81	160	150	31	15	9.8	8.3
28	6.9	12	24	336	54	98	170	145	29	14	9.8	8.3
29	10	12	22	240	------	120	200	138	28	14	9.8	8.3
30	11	13	21	193	------	139	215	132	27	14	9.8	8.3
31	8.7	------	19	160	------	170	------	123	------	14	9.8	------
TOTAL	268.7	572.8	928	9,842	2,212	1,826	5,501	7,002	1,616	580	344.0	263.4
MEAN	8.67	19.1	29.9	317	79.0	58.9	183	226	53.9	18.7	11.1	8.78
MAX	38	54	84	1,770	143	170	252	345	110	27	13	9.5
MIN	5.1	8.0	10	18	48	38	131	123	27	14	9.8	8.3
AC-FT	533	1,140	1,840	19,520	4,390	3,620	10,910	13,890	3,210	1,150	682	522

CAL YR 1968 TOTAL 14,502.7 MEAN 39.6 MAX 572 MIN 4.9 AC-FT 28,770
WTR YR 1969 TOTAL 30,955.9 MEAN 84.8 MAX 1,770 MIN 5.1 AC-FT 61,400

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	9.1	7.3	53	160	268	54	33	18	12	7.6	5.7
2	8.3	9.1	7.3	49	139	170	53	32	18	12	7.6	5.4
3	8.3	9.1	7.3	44	125	136	49	31	18	12	7.6	5.4
4	8.3	8.7	6.9	40	115	122	48	30	17	12	7.6	5.7
5	8.3	22	6.9	38	106	110	46	30	17	11	7.6	6.0
6	8.3	17	6.9	36	97	103	45	29	16	11	7.3	5.7
7	8.3	20	6.9	34	92	100	44	29	16	11	7.3	5.7
8	9.8	20	7.3	39	86	118	43	29	17	11	7.3	5.4
9	10	14	7.6	183	82	108	42	32	20	10	7.3	5.4
10	9.5	12	10	298	78	102	44	33	21	10	7.3	5.4
11	9.1	12	27	178	77	94	43	32	18	10	6.9	5.1
12	9.1	12	68	213	97	89	41	31	18	10	6.9	5.1
13	9.1	12	63	608	100	91	42	31	19	9.8	6.9	5.1
14	10	10	32	1,200	86	106	41	31	24	9.8	6.6	5.1
15	22	9.5	25	608	86	105	41	29	18	9.8	6.6	5.4
16	34	9.5	22	1,360	91	102	41	28	17	9.8	6.6	5.1
17	28	9.1	19	1,120	100	98	40	27	16	9.5	6.3	5.1
18	14	9.1	20	607	85	89	38	27	16	9.5	6.3	5.1
19	11	9.1	165	470	81	86	41	26	14	9.5	6.3	5.4
20	10	8.7	314	450	77	82	38	25	14	9.1	6.3	5.4
21	9.8	8.7	645	1,280	74	78	38	24	14	9.1	6.3	5.4
22	9.8	8.3	188	1,300	72	75	37	24	14	9.1	6.0	5.1
23	9.5	8.3	225	990	70	75	35	24	13	9.1	6.0	5.1
24	9.1	8.3	658	1,250	69	75	34	23	13	8.7	6.0	5.1
25	9.1	8.3	432	625	68	74	33	22	12	8.7	6.0	4.9
26	9.1	8.3	222	414	69	72	35	22	13	8.7	5.7	4.9
27	9.1	8.0	143	553	70	69	35	21	13	8.3	5.7	4.9
28	9.1	7.6	103	350	117	65	33	21	14	8.3	5.7	4.9
29	9.1	7.3	82	265	------	63	33	20	14	8.3	5.7	4.9
30	9.1	7.3	69	212	------	60	35	20	13	8.0	5.7	4.9
31	9.1	------	60	184	------	58	------	19	------	8.0	5.7	------
TOTAL	345.6	322.4	3,656.4	15,051	2,569	3,043	1,222	835	485	303.1	204.7	157.8
MEAN	11.1	10.7	118	486	91.8	98.2	40.7	26.9	16.2	9.78	6.60	5.26
MAX	34	22	658	1,360	160	268	54	33	24	12	7.6	6.0
MIN	8.3	7.3	6.9	34	68	58	33	19	12	8.0	5.7	4.9
AC-FT	685	639	7,250	29,850	5,100	6,040	2,420	1,660	962	601	406	313

CAL YR 1969 TOTAL 33,510.8 MEAN 91.8 MAX 1,770 MIN 6.9 AC-FT 66,470
WTR YR 1970 TOTAL 28,195.0 MEAN 77.2 MAX 1,360 MIN 4.9 AC-FT 55,920

11395400 SLY CREEK RESERVOIR NEAR STRAWBERRY VALLEY, CALIF.

LOCATION.--Lat 39°35'01", long 121°06'45", in NW¼NW¼ sec.20, T.20 N., R.8 E., Butte County, Plumas National Forest, on right bank 100 ft upstream from dam on Lost Creek and 1.4 miles northwest of Strawberry Valley. Prior to Sept. 30, 1966, in valve chamber inside dam.

DRAINAGE AREA.--24.0 sq mi.

PERIOD OF RECORD.--November 1961 to September 1970 (fragmentary prior to Mar. 14, 1962).

GAGE.--Nonrecording gage. Datum of gage is at mean sea level (levels by Oroville-Wyandotte Irrigation District). Prior to Sept. 30, 1966, water-stage recorder in valve chamber inside dam at present datum.

EXTREMES.--Maximums and minimums (contents in acre-feet, elevation in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum		
Wtr yr	Date	Contents	Elevation	Date	Contents	Elevation
1966	Apr. 28, 29, May 4, 1966	63,900	3,528.0	Jan. 28, 29, 1966	8,430	3,385.5
1967	May 24, 1967	a65,000	3,529.9	Jan. 19, 1967	a29,200	3,457.8
1968	Oct. 3, 1967	a57,500	3,517.2	Feb. 16, 1968	a8,700	3,386.9
1969	June 23, 24, 26, 1969	a60,500	3,522.4	Apr. 17, 21, 22, 1969	a20,200	3,432.1
1970	May 21, 1970	a60,500	3,522.4	Dec. 19, 1969	a20,300	3,432.3

a Observed.

Period of record: Maximum contents, 65,500 acre-ft June 2-5, 11, 12, 1962, Apr. 7, 1963 (elevation, 3,531.5 ft); minimum, 8,430 acre-ft Jan. 28, 29, 1966 (elevation, 3,385.5 ft).

REMARKS.--Reservoir is formed by an earthfill dam. Storage began in November 1961. Total capacity, 65,200 acre-ft between elevations 3,285 (invert of outlet) and 3,531 ft (top of spillway gate), all of which is available for release. Water is diverted into reservoir from South Fork Feather River through South Fork diversion tunnel and from North Yuba River basin through Slate Creek tunnel. Records, including extremes, show contents at time nonrecording gage was read. See schematic diagram of South Fork Feather River basin elsewhere in this report.

COOPERATION.--Reservoir nonrecording gage readings furnished by Oroville-Wyandotte Irrigation District.

Capacity table, water years 1966-70 (elevation, in feet, and contents, in acre-feet)

3,360	4,300	3,420	16,600	3,480	38,500
3,390	9,300	3,450	26,300	3,510	53,400
				3,532	66,200

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50000	44400	33900	15500	9010	12300	38700	63600	62700	52900	48700	45900
2	49700	44200	33300	15400	9200	12500	40800	63600	62400	52400	48200	45700
3	49700	44200	32500	14900	9300	12700	43200	63300	62100	52400	48200	45400
4	50000	43900	31900	14500	9300	12700	44700	63900	61800	52100	48400	45400
5	49700	43700	31300	13900	9200	12800	46200	63600	61800	51900	48400	45400
6	49500	43400	30700	13600	9300	13000	47400	63600	61500	51600	48700	45400
7	49200	43200	30300	13100	9200	13400	48700	63600	61200	51300	48900	45200
8	48900	42900	29700	12700	9410	13600	49700	63300	60900	51300	48900	44900
9	48700	42700	29100	12500	9630	14100	51900	63000	60600	51300	49200	44700
10	48700	42200	28600	12100	9850	15300	52900	63000	60300	51300	48900	44700
11	48400	41500	28000	11900	9960	16200	54800	63000	60000	50800	48900	44400
12	48200	41100	27200	11400	9850	17000	56500	63000	60000	50800	48700	44400
13	47900	40400	26700	11100	9460	18800	57900	63000	59400	50800	48700	43900
14	47700	40400	26100	10600	9630	20300	58800	63300	59100	50500	48400	43700
15	47200	39900	25600	10500	9630	21600	59700	63300	58800	50300	48400	43700
16	46900	39400	25100	10600	9740	22600	60600	63000	58200	50300	48200	43700
17	46700	39200	24400	10500	9850	23800	61500	63300	57900	50300	48200	43400
18	46900	40100	23600	10300	9960	24200	62100	63000	57600	50300	47900	43400
19	47200	39900	22900	9630	10200	25200	62700	62700	57600	50000	47700	43400
20	46700	39400	22400	9630	10400	25600	63000	62700	57400	49700	47400	43200
21	46900	39000	21800	9410	10600	26300	63300	62700	56800	49500	47400	42900
22	46700	38500	21200	9200	10700	26900	63300	62700	56200	49200	47400	42900
23	46700	38100	20500	9110	11000	27600	63300	62700	55400	49200	47200	42700
24	46400	37800	20000	9010	11400	28000	63300	62700	55400	49500	46900	42500
25	46200	37400	19400	8820	11600	28600	63300	63000	55400	49200	46900	42500
26	45700	37000	18800	8620	12000	29500	63600	63000	55100	48900	46700	42500
27	45700	36300	18100	8520	12200	30500	63600	63000	54600	48900	46700	42500
28	45400	35900	17500	8430	12100	31700	63900	63000	54300	48700	46700	42200
29	45200	35200	16900	8430	---	33300	63900	62700	54000	48700	46400	42000
30	44900	34600	16300	8620	---	35000	63600	62700	53400	48700	46400	41800
31	44700	---	15700	8910	---	36800	---	63000	---	48700	46200	---
MAX	50000	44400	33900	15500	12200	36800	63900	63900	62700	52900	49200	45900
MIN	44700	34600	15700	8430	9010	12300	38700	62700	53400	48700	46200	41800
(†)	3493.0	3471.0	3416.5	3388.0	3402.5	3476.0	3527.5	3526.5	3510.0	3501.0	3496.0	3487.0
(‡)	-5600	-10100	-18900	-6790	+3190	+24700	+26800	-600	-9600	-4700	-2500	-4400

CAL YR 1965 MAX 65000 MIN 15700 ‡ -41400
WTR YR 1966 MAX 63900 MIN 8430 ‡ -8500

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11395400 SLY CREEK RESERVOIR NEAR STRAWBERRY VALLEY, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41500	34100	39300	39900	46900	50200	56200	45200	64000	64000	62400	56400
2	41500	33700	41600	39100	48000	49900	56000	44800	63900	63600	62400	56900
3	41800	33200	43700	38400	48700	49500	55700	44500	63900	63400	62200	57400
4	41300	32800	45300	37700	49400	49200	55500	44500	63900	63300	62100	57900
5	40800	32300	47300	37000	50000	48800	55200	44500	63900	63200	62100	58200
6	40600	32200	48600	36200	50600	48400	54800	44600	63900	63000	62400	58100
7	40100	31900	49200	35400	51100	48000	54700	45200	63700	62700	62400	57900
8	39700	31500	49500	34700	51500	47600	54300	46600	63700	62700	62200	58200
9	39900	31100	49600	34000	51800	47300	53700	47900	63500	62600	61900	58600
10	40100	30600	49600	33400	52000	47300	53100	49200	63200	62400	61600	59000
11	39900	30300	49600	32700	52300	47500	52800	50300	62900	62100	61300	59100
12	39900	30200	49400	32100	52700	47600	52700	51100	62900	61800	61300	59000
13	39700	30000	49300	31300	53100	47800	52500	51900	63700	61600	61100	59000
14	39400	29800	49100	30700	53600	47400	52300	52700	64300	61600	60800	59000
15	39400	30400	48800	29900	53900	47800	52000	53700	64300	61700	60600	59000
16	39900	31100	48500	29700	54100	50000	51700	55100	64400	61900	60300	59100
17	39700	31200	48300	29500	53800	52800	51400	56700	64500	61900	60000	59500
18	39200	31500	47900	29400	53400	54600	51200	58000	64700	61800	59800	59600
19	39000	31900	47400	29200	53000	55400	50800	59400	64700	61900	59500	59600
20	38500	33000	47000	29900	52500	56100	50400	60900	64600	61900	59500	59400
21	38300	34000	46600	32600	52200	56600	50000	62300	64400	61900	59300	59200
22	37800	34600	46000	34900	52000	57000	49500	63600	64400	62100	59000	59000
23	37600	34900	45500	35600	51900	57100	49100	64700	64600	62400	58700	58800
24	37200	34800	45000	36100	51600	57100	48600	65000	64900	62400	58600	58800
25	36800	34700	44400	36100	51400	57000	48200	64800	64900	62200	58400	58700
26	36300	34400	43700	36900	51100	56800	47700	64600	64900	62200	58000	58400
27	35900	34400	43300	36600	50900	56700	47200	64500	64900	62200	57800	58200
28	35200	35500	42600	37300	50500	56600	46700	64300	64800	62200	57400	57800
29	35000	37100	41900	40500	---	56400	46200	64200	64700	62400	57000	57500
30	34800	38200	41200	43200	---	56300	45700	64000	64400	62600	56600	57500
31	34300	---	40600	45400	---	56300	---	64000	---	62600	56400	---
MAX	41800	38200	49600	45400	54100	57100	56200	65000	64900	64000	62400	59600
MIN	34300	29800	39300	29200	46900	47300	45700	44500	62900	61600	56400	56400
(†)	3470.5	3479.3	3484.6	3494.5	3504.5	3515.1	3495.1	3528.3	3528.9	3525.9	3515.3	3517.2
(‡)	-7500	+3900	+2400	+4800	+5100	+5800	-10600	+18300	+400	-1800	-6200	+1100

CAL YR 1966 MAX 63900 MIN 8430 ‡ +24900
WTR YR 1967 MAX 65000 MIN 29200 ‡ +15700

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57300	47400	25300	13000	14100	28700	34400	48500	53800	45600	42800	49500
2	57300	47100	24600	13200	13500	29200	35000	48800	53800	45100	42500	50400
3	57500	46600	23900	13200	13100	29700	35200	49200	53900	45200	42600	50700
4	57200	46000	24900	13300	12700	29900	35400	49600	54000	45500	42900	51100
5	56900	45700	24200	13300	12500	30200	35600	50000	53900	45500	42900	51200
6	56700	45200	22800	13400	12500	30400	35700	50300	53800	45500	42900	51800
7	56500	44500	22200	13500	12300	30600	35700	50600	53600	45400	43100	52600
8	56200	43600	21200	13500	11800	30700	36100	50700	53600	45300	43100	53200
9	55800	42900	21100	13600	11200	30600	36700	50900	53200	45100	42300	53300
10	55400	42500	20400	13900	10800	30600	37500	51100	53100	45000	41700	52800
11	54900	42100	19600	14300	10500	30500	38400	51200	53000	45000	41700	52300
12	54300	41700	19000	14300	10100	30500	39300	51500	52700	44800	41800	51800
13	53800	41000	17300	14000	9700	30600	39500	51800	52300	44800	42000	51300
14	53300	40300	16800	14300	9200	30600	40600	51800	52100	44900	41700	50900
15	52800	39400	15800	16000	8820	30900	41500	51400	51800	45100	41600	50600
16	52300	38400	15000	17900	8700	31400	42200	51400	51500	44700	41900	50200
17	51800	37400	14100	18200	10100	31600	42600	51600	51400	44200	42400	49500
18	51200	36800	13300	17300	11500	32000	43200	51900	51100	44300	43100	49000
19	50700	36700	12500	16400	12800	32800	43700	52300	50600	44100	43800	48500
20	50200	36500	11600	15900	15500	32900	44100	52400	50200	44100	44200	48000
21	49700	35800	10600	15900	18400	32400	44700	52400	49600	44100	44700	47700
22	49300	34500	9890	15900	20500	31900	45200	52400	49100	44000	45100	47500
23	49100	33300	9590	15900	22700	31400	45500	52700	48700	44000	45600	46900
24	49100	32100	9370	15900	24400	31100	45800	52900	48300	44200	46000	46300
25	49200	30800	9220	16000	25300	31000	46000	53000	47900	43900	46600	45800
26	49300	29900	9260	16100	26000	31100	46300	53300	47600	43400	47400	45300
27	49300	29100	10600	16000	26800	31300	46600	53400	47300	43500	48100	44800
28	49400	28100	11700	15900	27400	31700	47000	53500	46900	43900	48200	44500
29	49400	27000	12300	15700	28300	32200	47500	53600	46600	44100	48400	44200
30	48900	26100	12600	15000	---	32900	48000	53600	46200	44000	48700	43700
31	48000	---	12900	14600	---	33600	---	53700	---	42600	49100	---
MAX	57500	47400	25300	18200	28300	33600	48000	53700	54000	45600	49100	53300
MIN	48000	26100	9220	13000	8700	28700	34400	48500	46200	42600	41600	43700
(†)	3499.7	3449.4	3405.8		3455.2	3468.8	3499.8	3510.5	3496.1	3488.7	3501.8	3491.0
(‡)	-9500	-21900	-13200	+1700	+13700	+5300	+14400	+5700	-7500	-3600	+6500	-5400

CAL YR 1967 MAX 65000 MIN 9220 ‡ -27700
WTR YR 1968 MAX 57500 MIN 8700 ‡ -13800

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11395400 SLY CREEK RESERVOIR NEAR STRAWBERRY VALLEY, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43500	34600	31700	32300	57100	51400	28500	22300	56800	59800	52100	52400
2	42800	34700	31700	31900	57100	50500	27900	24200	56800	59700	52100	52400
3	42200	35300	30900	31500	57100	49700	27400	26100	58700	59400	52400	52500
4	42000	35900	30900	31100	57100	48800	26700	28000	59100	59200	52400	52500
5	41300	36400	30800	31000	57100	48000	26000	29800	59100	59300	52300	52400
6	41100	36300	30500	30600	56800	47100	25200	32100	59500	59400	52200	51800
7	40900	36300	30300	30000	56800	45900	24500	34100	60000	59100	52200	51600
8	40300	36300	30100	29500	56800	44600	23700	36500	60400	58700	52100	51300
9	39900	35300	30000	29200	56800	43400	23000	39000	59400	58400	52100	50800
10	39200	34200	29900	28700	56800	41900	22200	41900	59200	58000	52100	50400
11	38700	34300	31100	28300	55100	41800	21500	43800	59500	57500	52000	49800
12	38600	34500	31800	28700	55100	41800	21700	46300	58800	57200	51900	49400
13	39100	34700	31700	29300	54600	41700	21700	48800	58400	56900	52200	48800
14	39400	34300	32000	31500	55100	41100	21400	51100	58400	56700	52100	48900
15	39100	34500	32300	32300	54700	40500	20900	52000	59000	56400	52100	48700
16	38600	34000	33500	33400	54600	39900	20600	52800	59600	55900	52300	48000
17	37600	34000	33600	33600	53700	39300	20200	53700	59500	55600	52500	47200
18	37600	33800	33700	33700	53700	38800	20300	54400	59400	55300	52400	46500
19	37300	34000	33800	35200	53600	38200	20300	55300	59000	55200	52300	45700
20	37200	33700	33700	40400	53200	37600	20300	55600	59500	55200	52200	44900
21	37000	33800	33100	47900	53000	37000	20200	55900	59500	55000	52200	44200
22	36400	32200	32900	52000	52800	36400	20200	56100	60000	54600	52200	43500
23	35900	33800	32500	54400	52700	35900	20300	56200	60500	54200	52100	42800
24	35400	33900	32500	55900	52600	35300	21300	56400	60500	53900	52300	42000
25	34900	33300	32700	57100	52500	34700	21400	56600	60300	53600	52300	41200
26	34600	33000	32900	58600	52400	33400	21500	56700	60500	53000	52300	40300
27	34300	32700	33500	58100	52300	32200	21100	56800	60400	52900	52400	39600
28	34200	32300	33600	57700	52200	31400	21100	56800	60300	52600	52100	38700
29	34200	32100	33600	57500	---	30600	21400	56700	60400	52300	52000	38200
30	34600	31800	33700	57400	---	29800	21700	56800	60400	52000	52000	37200
31	34600	---	32800	57200	---	29000	---	56800	---	52000	51900	---
MAX	43500	36400	33800	58600	57100	51400	28500	56800	60500	59800	52500	52500
MIN	34200	31800	29900	28300	52200	29000	20200	22300	56800	52000	51900	37200
(†)	3471.0	3464.3	3466.7	3516.7		3457.2	3436.8	3516.0	3522.3	3507.3	3507.1	3477.0
(‡)	-9100	-2800	+1000	+24400	-5000	-23200	-7300	+35100	+3600	-8400	-100	-14700

CAL YR 1968 MAX 54000 MIN 8700 ‡ +19900

WTR YR 1969 MAX 60500 MIN 20200 ‡ -6500

† ELEVATION, IN FEET, AT END OF MONTH.

‡ CHANGE IN CONTENTS, IN ACRE-FEET.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36400	35100	27600	36800	57000	55700	54700	58600	59600	53100	49500	39600
2	35600	35100	27200	36400	56800	56300	55200	58600	59400	52900	49700	39300
3	34800	35200	26700	36100	57200	56500	55800	58600	59300	52800	49700	39200
4	35000	35600	26200	35600	57200	57000	55900	58800	59200	52400	49500	38700
5	34600	35900	25800	34900	57500	56800	56200	58700	59000	52200	49300	38200
6	34100	36200	25400	34500	57500	56600	56500	59000	58900	52400	49000	38400
7	33600	36400	25200	34000	57500	56400	56800	59000	58800	52300	48700	37900
8	33500	36600	24400	33300	57500	56400	55900	59100	58800	52300	48600	37700
9	33100	36800	23900	33000	57400	56400	56300	59200	58600	52000	48600	37500
10	32700	37000	23400	35100	57400	56300	56900	59500	58400	51800	48400	37200
11	32600	37300	23100	36700	57400	56200	57400	59800	58100	51800	48300	37000
12	32500	36900	23400	37900	57400	55900	57900	59700	57800	51800	47900	36800
13	32400	36500	23800	40800	57700	55700	58200	59700	57700	51700	47800	37000
14	32800	35900	23400	46100	57600	55500	58300	59700	57700	51600	47100	37100
15	33000	35500	22700	49700	57600	56100	58300	59800	57600	51600	46700	37100
16	34000	35000	21900	53800	57500	56200	58300	59900	57800	51000	46200	37200
17	33600	34800	21300	56300	57800	56400	58700	60100	57500	50700	46300	36800
18	34300	33800	20500	58000	57200	56200	58700	60300	57200	50400	46100	36800
19	34400	33400	20300	57900	57200	55900	58700	60400	57100	50300	45200	36700
20	34300	33000	21300	57800	57100	55200	58800	60400	57000	50300	44600	36900
21	34300	32700	24800	58200	57000	54900	58800	60500	56100	50000	44200	37000
22	34300	32200	25900	58700	56600	54400	58700	60400	56200	50000	43800	36800
23	33400	31700	26400	58200	56400	53900	58700	60300	56200	50000	43500	36800
24	33400	31200	29800	58200	56100	53200	58800	60200	55000	49800	43200	36800
25	33500	30500	32500	58000	55700	52700	58600	60300	54700	49800	42600	36700
26	33600	29600	34700	57600	55600	52100	58700	60300	54400	49800	42000	36500
27	33600	29700	36000	57800	55200	52200	58500	60100	54200	50100	41600	36600
28	33700	29200	36300	57500	54800	52700	58600	60100	54100	49900	41300	36800
29	34000	28700	37100	57300	---	53100	58600	60000	53900	49700	40700	36600
30	34300	28200	37100	57200	---	53700	58600	59800	53400	49600	40500	36600
31	34100	---	37000	57100	---	54300	---	59800	---	49500	40200	---
MAX	36400	37300	37100	58700	57800	57000	58800	60500	59600	53100	49700	39600
MIN	32400	28200	20300	33000	54800	52100	54700	58600	53400	49500	40200	36500
(+)	3470.0	3455.1	3476.6	3516.5	3512.4	3511.6	3519.2	3521.3	3510.0	3502.6	3483.6	3475.7
(‡)	-3100	-5900	+8800	+20100	-2300	-500	+4300	+1200	-6400	-3900	-9300	-3600

CAL YR 1969 MAX 60500 MIN 20200 ‡ +4200

WTR YR 1970 MAX 60500 MIN 20300 ‡ -600

+ ELEVATION, IN FEET, AT END OF MONTH.

‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11395500 OROVILLE-WYANDOTTE CANAL NEAR CLIPPER MILLS, CALIF.

LOCATION.--Lat 39°33'15", long 121°11'31", in NE¼ sec.33, T.20 N., R.7 E., Butte County, in concrete valve house at head of canal, 2.5 miles north of Clipper Mills.

PERIOD OF RECORD.--October 1927 to September 1941 (published as Forbestown Ditch near Clipper Mills), October 1954 to September 1970. Monthly discharge only for October 1953 to September 1961, published with records for Lost Creek near Clipper Mills.

GAGE.--Water-stage recorder and Parshall flume. Datum of gage is 3,166.0 ft above mean sea level (levels by Oroville-Wyandotte Irrigation District). Prior to Oct. 1, 1941, nonrecording gages and Oct. 1, 1941, to Nov. 16, 1962, water-stage recorder, at sites at different datums 4 miles upstream in abandoned portion of canal 0.3 mile downstream from Lost Creek Dam.

AVERAGE DISCHARGE.--31 years, 17.8 cfs (12,900 acre-ft per year).

EXTREMES.--Period of record: Maximum daily discharge, 43 cfs Aug. 9 to Sept. 9, 1937; no flow at times in many years.

REMARKS.--Records good. Water is discharged to canal through valve in Woodleaf penstock. Prior to Nov. 16, 1962, canal diverted from Lost Creek Dam. Water is used for irrigation and domestic supply. Demand for water reduced when a large lumber mill closed at Woodleaf in 1962. See schematic diagram of South Fork Feather River basin elsewhere in this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.6	9.5	1.0	1.0	1.1	1.3	6.4	12	8.3	14	14	20
2	8.6	9.5	1.0	1.0	1.1	1.3	7.0	13	8.1	14	14	21
3	9.6	9.5	1.0	1.0	1.1	1.3	7.0	12	8.0	14	16	22
4	9.1	9.5	1.0	1.0	1.1	1.3	6.9	12	9.8	14	19	22
5	9.5	9.3	1.0	1.0	1.1	1.3	6.7	12	11	14	19	22
6	9.5	9.3	1.0	1.0	1.2	1.3	10	12	12	14	19	22
7	9.3	9.3	1.0	1.0	1.2	1.3	12	13	13	14	19	22
8	9.3	9.5	1.0	1.0	1.2	1.3	12	14	12	12	20	22
9	9.1	9.5	1.0	1.0	1.2	1.3	12	14	11	12	20	22
10	9.0	9.0	1.0	1.0	1.2	1.3	12	14	11	12	19	22
11	9.1	8.6	1.0	1.0	1.2	1.4	12	12	11	12	19	23
12	9.3	9.3	1.0	1.0	1.2	1.4	12	6.9	11	12	19	22
13	9.5	9.3	1.0	1.0	1.1	1.4	11	9.0	11	14	22	19
14	9.3	9.1	1.0	1.0	1.1	1.4	11	9.8	11	14	22	16
15	9.5	9.3	.90	1.0	1.2	1.4	12	9.5	11	13	22	16
16	8.8	9.0	1.0	1.0	1.2	1.4	12	9.8	10	13	24	17
17	8.5	9.3	1.2	1.0	1.2	3.9	12	10	10	12	23	22
18	9.3	9.0	1.2	1.0	1.2	5.5	12	8.9	11	12	24	22
19	9.1	8.5	1.2	1.0	1.2	5.5	11	10	11	10	24	20
20	9.3	8.0	1.2	1.0	1.2	5.8	11	10	11	10	23	20
21	9.3	9.8	1.0	1.0	1.2	5.8	12	9.8	12	12	24	22
22	9.5	9.6	1.0	1.0	1.2	5.8	11	9.6	11	13	23	21
23	9.6	9.0	1.0	1.0	1.3	5.8	11	10	11	13	24	20
24	9.6	6.1	1.0	1.0	1.3	5.7	11	8.4	13	12	24	18
25	9.6	1.0	1.0	1.0	1.3	5.5	12	7.8	12	12	23	20
26	9.6	1.0	1.0	1.0	1.3	7.0	12	8.0	12	13	23	19
27	9.6	1.0	1.0	1.0	1.3	7.8	10	8.5	12	14	24	18
28	9.6	1.0	.90	1.0	1.3	7.8	10	8.3	14	14	24	20
29	9.5	1.0	.90	1.0	------	7.6	12	7.6	14	14	22	18
30	9.5	1.0	1.0	1.0	------	7.8	12	7.8	14	15	21	20
31	9.5	------	1.0	1.0	------	7.1	------	7.5	------	14	20	------
TOTAL	288.2	223.8	31.50	31.0	33.5	115.8	321.0	317.2	337.2	402	653	610
MEAN	9.30	7.46	1.02	1.00	1.20	3.74	10.7	10.2	11.2	13.0	21.1	20.3
MAX	9.6	9.8	1.2	1.0	1.3	7.8	12	14	14	15	24	23
MIN	8.5	1.0	.90	1.0	1.1	1.3	6.4	6.9	8.0	10	14	16
AC-FT	572	444	62	61	66	230	637	629	669	797	1,300	1,210

CAL YR 1965 TOTAL 2,355.60 MEAN 6.45 MAX 10 MIN 0 AC-FT 4,670
WTR YR 1966 TOTAL 3,364.20 MEAN 9.22 MAX 24 MIN .90 AC-FT 6,670

11395500 OROVILLE-WYANDOTTE CANAL NEAR CLIPPER MILLS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	14	.60	.70		0	.60	.50	.70	13	9.6	12
2	22	15	.60	.70		0	.60	.50	.70	13	10	11
3	20	15	.60	.70		0	.60	.50	.70	13	10	11
4	21	14	.60	.60		0	.60	.60	.70	14	9.5	11
5	20	14	.60	.60		0	.60	.60	.70	12	10	10
6	21	14	.60	.60		0	.60	.60	.70	12	10	10
7	22	14	.60	.60		1.3	.60	.60	.70	10	10	11
8	22	12	.60	.60		2.1	.60	.60	.70	10	11	12
9	21	9.8	.60	.60		2.3	.50	.60	.70	10	10	13
10	20	10	.60	.60		3.2	.60	.60	.70	10	10	12
11	20	10	.60	.60		3.2	.70	.60	.70	10	11	11
12	20	10	.60	.60		3.0	.70	.60	.70	10	11	13
13	20	11	.60	.60		2.3	.70	.60	.80	10	11	14
14	21	10	.60	.60		2.3	.70	.80	.80	10	10	13
15	21	8.8	.60	.60		2.3	.70	1.1	.80	10	11	15
16	21	6.9	.60	.60		1.5	.60	1.1	.80	10	11	17
17	20	6.1	.60	.60		.80	.60	1.1	.80	9.8	11	16
18	20	5.5	.60	3.1		.60	.60	1.0	.80	11	11	17
19	22	5.7	.60	4.6		.60	.60	.70	.70	12	12	17
20	22	5.8	.60	5.2		.60	.60	.60	.70	11	12	17
21	22	5.8	.60	2.1		.50	.60	.60	.70	11	11	16
22	23	2.5	.60	0		.50	.60	.60	.70	11	14	17
23	22	.60	.60	0		.60	.60	.60	.70	11	16	18
24	20	.80	.60	0		.60	.60	.60	.70	11	15	17
25	22	.60	.60	0		.60	.60	.60	.70	10	14	17
26	20	.60	.60	0		.60	.60	.60	2.3	10	15	19
27	16	.60	.60	0		.60	.60	.60	10	10	15	20
28	16	.60	.60	0		.60	.60	.70	13	10	14	19
29	16	.60	.60	0	------	.60	.60	.70	13	11	13	18
30	16	.60	.70	0	------	.60	.50	.70	13	11	11	19
31	14	------	.70	0	------	.60	------	.70	------	10	12	------
TOTAL	625	224.90	18.80	25.50	0	32.50	18.30	20.90	69.40	336.8	361.1	443
MEAN	20.2	7.50	.61	.82	0	1.05	.61	.67	2.31	10.9	11.6	14.8
MAX	23	15	.70	5.2	0	3.2	.70	1.1	13	14	16	20
MIN	14	.60	.60	0	0	0	.50	.50	.70	9.8	9.5	10
AC-FT	1,240	446	37	51	0	64	36	41	138	668	716	879

CAL YR 1966 TOTAL 3,689.40 MEAN 10.1 MAX 24 MIN .60 AC-FT 7,320
WTR YR 1967 TOTAL 2,176.20 MEAN 5.96 MAX 23 MIN 0 AC-FT 4,320

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	16	17	15	.62	.37	.25	6.6	9.5	15	27	26
2	17	16	17	14	.55	.37	.20	5.5	9.3	16	27	25
3	16	16	18	13	.55	.49	.20	4.8	8.1	16	28	24
4	15	16	17	12	.55	.55	.49	7.2	9.8	21	27	24
5	17	17	17	11	.55	.55	.62	8.6	12	22	26	24
6	17	18	17	9.1	.43	.55	.62	6.4	13	23	26	24
7	17	17	10	11	.43	.55	.62	8.1	13	21	25	25
8	17	16	4.0	12	.43	.49	.62	9.1	13	22	26	25
9	16	16	.82	13	.43	.49	.68	8.1	12	28	26	23
10	16	17	.75	14	.43	.49	.68	8.6	11	28	26	23
11	17	18	.55	13	.43	.49	.62	9.0	11	28	25	24
12	17	17	.62	12	.37	.49	.62	9.0	11	29	26	24
13	17	16	.62	12	.43	.43	.82	8.5	13	27	25	24
14	17	16	1.4	12	.43	.43	.89	8.3	13	24	25	25
15	17	16	1.8	8.5	.43	.49	.75	7.6	14	23	25	26
16	17	15	2.4	6.1	.49	.55	.75	9.0	15	23	25	23
17	17	16	2.6	6.1	.49	.55	.75	8.8	14	24	26	24
18	17	18	4.7	7.0	.49	.49	.75	8.1	16	25	27	24
19	17	18	9.8	2.9	.49	.43	.75	8.1	17	26	23	24
20	17	16	10	1.0	.55	.43	.75	7.5	17	29	22	24
21	17	14	10	1.0	.62	.37	.75	7.8	17	28	23	25
22	17	17	7.8	1.0	.43	.43	.75	8.5	17	26	23	25
23	17	17	6.7	1.0	.32	.49	.75	9.0	18	26	23	23
24	17	18	7.5	1.0	.32	.43	.75	10	18	27	23	22
25	17	17	8.0	1.0	.37	.37	.82	12	17	27	25	24
26	17	16	8.0	.75	.37	.37	.82	12	16	27	23	24
27	17	17	7.8	.62	.37	.49	.82	10	16	27	23	24
28	17	16	12	.62	.37	.49	.82	9.3	16	29	23	25
29	17	16	15	.62	.37	.43	4.9	9.3	16	26	25	25
30	16	17	15	.62	------	.43	7.3	9.8	16	27	25	23
31	15	------	15	.62	------	.37	------	9.5	------	28	24	------
TOTAL	522	496	265.86	213.55	13.11	14.35	30.91	264.1	418.7	768	773	725
MEAN	16.8	16.5	8.58	6.89	.45	.46	1.03	8.52	14.0	24.8	24.9	24.2
MAX	20	18	18	15	.62	.55	7.3	12	18	29	28	26
MIN	15	14	.55	.62	.32	.37	.20	4.8	8.1	15	22	22
AC-FT	1,040	984	527	424	26	28	61	524	830	1,520	1,530	1,440

CAL YR 1967 TOTAL 2,591.36 MEAN 7.10 MAX 20 MIN 0 AC-FT 5,140
WTR YR 1968 TOTAL 4,504.58 MEAN 12.3 MAX 29 MIN .20 AC-FT 8,930

11395500 OROVILLE-WYANDOTTE CANAL NEAR CLIPPER MILLS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	16	6.0	.55	0	.75	1.0	.49	.55	19	21	24
2	23	15	5.7	.49	0	.75	1.0	.49	.55	19	23	23
3	24	15	5.7	.49	0	.75	1.1	.49	6.4	18	22	23
4	24	14	6.0	.55	0	.75	1.1	.55	12	19	21	23
5	25	13	6.4	.49	0	.75	1.1	.55	13	19	21	20
6	24	12	5.8	.49	0	.75	1.1	.55	13	19	21	17
7	24	12	5.7	.49	0	.75	1.1	.55	12	18	22	17
8	23	13	5.7	.49	0	.75	1.1	.55	11	18	24	16
9	23	12	5.7	.43	0	.82	1.1	.55	10	19	25	16
10	23	12	6.0	.43	0	.82	1.0	.55	15	18	25	16
11	23	12	6.0	.49	.69	.82	1.0	.55	18	18	24	16
12	17	12	6.0	.49	.78	.82	.97	.55	21	19	23	16
13	9.3	12	3.7	.49	.97	.82	.97	.55	22	19	23	16
14	9.0	12	.75	.43	.97	.82	.97	.55	23	18	24	17
15	7.2	12	.75	.43	.89	.82	.89	.55	23	18	23	16
16	5.1	12	.68	.43	.89	.82	.89	.55	20	18	24	15
17	4.7	12	.62	.43	.82	.89	.82	.55	20	19	24	15
18	4.7	12	.62	.43	.82	.89	.69	.55	17	19	22	15
19	5.5	12	.62	.49	.82	.97	.62	.55	17	19	23	14
20	6.0	12	.62	.49	.89	.97	.55	.55	18	19	23	14
21	5.2	12	.62	.44	.89	1.0	.55	.55	18	18	23	14
22	4.6	8.2	.55	.05	.89	1.0	.55	.55	19	19	23	13
23	4.4	6.0	.62	.05	.89	1.0	.55	.55	18	20	24	12
24	4.3	5.8	.55	.05	.89	1.0	.55	.55	18	20	24	12
25	4.0	6.0	.62	.05	.82	1.0	.55	.55	19	22	23	12
26	3.2	6.3	.62	.05	.82	1.0	.49	.55	19	23	22	12
27	3.1	6.0	.55	.05	.82	1.0	.49	.55	18	22	23	12
28	11	6.3	.55	.05	.75	1.0	.49	.55	20	21	22	12
29	16	5.4	.55	.01	------	1.0	.49	.55	19	21	23	17
30	15	5.4	.55	.01	------	1.0	.49	.55	18	21	24	18
31	16	------	.55	.01	------	1.0	------	.55	------	21	24	------
TOTAL	414.3	321.4	85.39	10.32	15.31	27.28	24.27	16.87	478.50	600	713	483
MEAN	13.4	10.7	2.75	.33	.55	.88	.81	.54	16.0	19.4	23.0	16.1
MAX	25	16	6.4	.55	.97	1.0	1.1	.55	23	23	25	24
MIN	3.1	5.4	.55	.01	0	.75	.49	.49	.55	18	21	12
AC-FT	822	637	169	20	30	54	48	33	949	1,190	1,410	958

CAL YR 1968 TOTAL 4,041.81 MEAN 11.0 MAX 29 MIN .20 AC-FT 8,020
WTR YR 1969 TOTAL 3,189.64 MEAN 8.74 MAX 25 MIN 0 AC-FT 6,330

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	8.5	7.5	1.8	.82	.75	.82	.55	10	12	17	16
2	20	8.6	7.3	3.1	.82	.71	.82	.55	11	12	16	16
3	20	8.0	7.0	3.1	.75	.68	.82	.55	12	12	16	16
4	19	8.3	7.2	3.3	.75	.68	.82	.55	11	12	17	16
5	18	8.0	8.1	3.8	.75	.68	.82	.55	11	12	20	18
6	17	6.3	8.3	3.9	.68	.68	.82	.55	12	12	20	18
7	19	5.1	7.2	3.9	.68	.68	.89	.55	12	12	20	18
8	20	4.8	7.3	4.0	.68	.68	.89	.55	11	12	20	18
9	17	4.3	8.0	3.7	.62	.68	.89	.55	11	12	18	19
10	17	4.0	8.0	3.3	.62	.68	.89	.55	11	12	19	20
11	17	4.0	8.1	3.1	.62	.68	.82	.55	11	12	18	19
12	17	5.4	3.6	3.0	.62	.68	.82	.55	11	12	18	18
13	16	5.2	0	2.8	.62	.68	.82	.55	11	11	18	19
14	16	4.7	0	3.7	.62	.68	.73	.55	11	14	18	19
15	15	4.4	0	5.5	.62	.68	.49	.48	11	15	18	19
16	14	4.4	2.2	5.7	.68	.68	.49	.48	11	14	18	18
17	13	4.4	3.4	2.7	.75	.68	.43	.48	11	15	17	16
18	10	4.2	3.6	.89	.75	.68	.43	5.8	12	15	17	16
19	6.3	3.8	3.6	.89	.68	.68	.43	8.9	12	16	17	16
20	6.4	6.0	3.2	.89	.68	.68	.43	8.8	12	16	17	16
21	5.4	7.2	3.0	.82	.68	.68	.43	9.4	12	17	18	14
22	8.3	6.6	2.9	.82	.62	.68	.43	9.4	12	17	18	14
23	11	5.5	2.9	.82	.62	.68	.37	9.4	12	16	18	16
24	11	5.7	3.3	.89	.68	.68	.37	9.2	12	16	18	15
25	11	7.0	3.8	.89	.62	.68	.37	9.0	11	16	17	14
26	10	8.5	3.8	.89	.62	.68	.37	9.0	12	17	18	14
27	9.6	8.1	3.6	.82	.68	.75	.37	8.9	12	16	17	15
28	9.1	7.8	3.2	.82	.68	.75	.31	9.0	12	16	17	14
29	8.6	7.2	2.9	.82	------	.75	.43	8.8	12	16	17	14
30	9.0	7.5	2.6	.82	------	.75	.49	9.2	12	16	18	14
31	9.3	------	2.1	.82	------	.75	------	8.8	------	16	17	------
TOTAL	421.0	183.5	137.7	72.30	19.01	21.53	18.31	132.74	344	439	552	495
MEAN	13.6	6.12	4.44	2.33	.68	.69	.61	4.28	11.5	14.2	17.8	16.5
MAX	21	8.6	8.3	5.7	.82	.75	.89	9.4	12	17	20	20
MIN	5.4	3.8	0	.82	.62	.68	.31	.48	10	11	16	14
AC-FT	835	364	273	143	38	43	36	263	682	871	1,090	982

CAL YR 1969 TOTAL 3,110.75 MEAN 8.52 MAX 25 MIN 0 AC-FT 6,170
WTR YR 1970 TOTAL 2,836.09 MEAN 7.77 MAX 21 MIN 0 AC-FT 5,630

11396000 LOST CREEK NEAR CLIPPER MILLS, CALIF.

LOCATION.--Lat 39°34'25", long 121°08'26", in SW¼ sec.24, T.20 N., R.7 E., Butte County, Plumas National Forest, on left bank 0.3 mile downstream from Lost Creek Reservoir and 2.8 miles north of Clipper Mills.

DRAINAGE AREA.--30.0 sq mi.

PERIOD OF RECORD.--October 1927 to September 1941, October 1948 to September 1970. Records for Woodleaf powerplant for February 1963 to September 1965 in files of Geological Survey.

GAGE.--Water-stage recorder. Altitude of gage is 3,170 ft (from topographic map).

AVERAGE DISCHARGE.--27 years (1927-41, 1948-61, prior to regulation by Sly Creek Reservoir), 73.0 cfs (52,850 acre-ft per year). 9 years (1961-70), 33.1 cfs (23,980 acre-ft per year), unadjusted.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	May 3, 1966	261	2.57	Many days	0
1967	Mar. 28, 1967	615	3.39	do.	.10
1968	July 31, 1968	698	3.53	July 29, 1968	0
1969	Jan. 26, 1969	2,400	5.38	Nov. 7-10, 1968	.05
1970	Jan. 22, 1970	2,680	5.58	Oct. 5, 6, Nov. 3, 4, 1969	.02

Period of record: Maximum discharge, 5,000 cfs Dec. 22, 1955 (gage height, 6.90 ft); no flow at times in some years.

REMARKS.--Records fair. Flow regulated by Sly Creek Reservoir (see station 11395400) 1.5 miles upstream and Lost Creek Reservoir 0.3 mile upstream (usable capacity, 5,920 acre-ft, with flashboards). Water is diverted into Sly Creek Reservoir through South Fork diversion tunnel from South Fork Feather River and through Slate Creek tunnel from North Yuba River basin. Woodleaf tunnel diverts from Lost Creek Reservoir to Woodleaf powerhouse. Oroville-Wyandotte Canal (see station 11395500) diverts from Woodleaf penstock for irrigation and domestic use. Records represent seepage, release, or spill from Lost Creek Dam to Lost Creek. See schematic diagram of South Fork Feather River basin elsewhere in this report.

REVISIONS (WATER YEARS).--WSP 1395: 1954. WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.10	.20	39	.20	.40	.30	162	.10	0	1.2	.50
2	.10	.10	.20	.20	88	.40	.30	162	.10	0	1.2	.40
3	.10	.10	.20	.20	175	.40	.30	172	.10	0	63	.40
4	.10	.10	.20	.40	175	.40	.30	158	.10	0	90	.40
5	.10	.10	.20	1.6	101	.40	.30	160	.10	0	90	.40
6	.10	.10	.20	.70	.90	.40	.20	160	.10	0	90	.40
7	.10	.10	.20	.40	.70	.50	.20	160	.10	0	116	.40
8	.10	.10	.20	.30	.50	.50	.20	160	.10	0	138	.50
9	.10	.10	.10	.30	.50	.70	.30	160	.10	0	85	.50
10	.10	.10	.10	.30	.40	1.1	.40	162	.10	0	.80	.40
11	.10	.10	.20	.20	.40	.70	.50	162	.10	0	.70	.40
12	.10	.20	.20	.20	.40	.70	.60	165	.10	0	.70	.40
13	.10	.30	.20	.20	.40	1.0	.40	162	.10	0	.60	.40
14	.10	.30	.10	.20	.40	.70	.30	162	.10	0	.60	.40
15	.10	.20	.10	.20	.40	.70	.30	160	.10	2.6	.60	.40
16	.10	.10	.10	.20	.40	.60	.20	116	.10	.30	.60	.40
17	.10	.80	.10	.20	.40	.50	.20	65	.10	.20	.60	.60
18	.10	.60	.10	.20	.40	.50	.20	65	.10	1.4	.60	.50
19	.10	.20	.10	.20	.50	.50	.20	21	.10	2.5	.50	.50
20	.10	.20	.10	.20	.50	.50	.20	25	.10	1.7	.50	.50
21	.10	.20	.10	.20	.50	.40	.20	.10	.10	4.9	.50	.50
22	.10	.10	.10	.20	.40	.40	.20	.10	.10	6.2	.50	.50
23	.10	.20	.10	.20	.50	.40	.20	.10	.10	3.1	.50	.50
24	.10	.50	.20	.20	.60	.40	.20	.10	.10	2.3	.50	.50
25	.10	.30	.20	.20	.60	.40	.20	.10	.10	1.2	.50	.50
26	.10	.20	.20	.20	.60	.40	.20	.10	.10	1.4	.50	.50
27	.10	.20	.20	.20	.50	.40	77	.10	.10	3.8	.50	.50
28	.10	.20	.40	.20	.50	.40	160	.10	.10	2.3	.50	.50
29	.10	.20	.30	.20	------	.30	160	.10	.10	1.8	.50	.50
30	.10	.20	.30	.20	------	.30	160	.10	0	5.9	.50	.50
31	.10	------	36	.20	------	.30	------	.10	------	5.1	.50	------
TOTAL	3.10	6.30	41.20	47.60	550.60	15.70	564.10	2,720.10	2.90	46.70	686.70	13.80
MEAN	.10	.21	1.33	1.54	19.7	.51	18.8	87.7	.097	1.51	22.2	.46
MAX	.10	.80	36	39	175	1.1	160	172	.10	6.2	138	.60
MIN	.10	.10	.10	.20	.20	.30	.20	.10	0	0	.50	.40
AC-FT	6.1	12	82	94	1,090	31	1,120	5,400	5.8	93	1,360	27
(†)	16,820	16,820	23,800	15,170	2,880	3,920	21,840	21,650	13,910	14,830	12,360	14,590

CAL YR 1965 TOTAL 16,436.40 MEAN 45.0 MAX 760 MIN .10 AC-FT 32,600
WTR YR 1966 TOTAL 4,698.80 MEAN 12.9 MAX 175 MIN 0 AC-FT 9,320

† DIVERSION, IN ACRE-FEET, TO WOODLEAF POWERPLANT, FURNISHED BY OROVILLE-WYANDOTTE IRRIGATION DISTRICT.

11396000 LOST CREEK NEAR CLIPPER MILLS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	.10	.70	1.0	4.1	.30	8.1	.70	198	.10	.40	.30
2	.60	.10	3.1	1.0	2.7	.30	.50	.70	165	.10	.40	.30
3	.60	.10	1.5	1.0	1.7	.30	.50	.70	126	.10	.40	.30
4	.50	.10	2.0	.80	1.4	.30	.50	.70	132	.10	.40	.30
5	.60	.10	3.3	.80	1.2	.30	.60	.70	138	.10	.40	.30
6	.60	.40	2.1	.80	1.0	.30	1.0	.70	132	.90	.40	.30
7	.60	.20	1.0	.80	1.0	.30	1.0	.70	122	.90	.40	.30
8	.60	.10	.70	.80	.80	.20	.80	.70	49	.90	.40	.30
9	.60	.10	.50	.80	.80	.20	.80	.80	.20	.70	.40	.30
10	.60	.10	.50	.80	.80	.30	.80	.80	.20	.70	.40	.30
11	.60	.10	.50	.80	.80	.50	.80	.80	.20	1.1	.40	.30
12	.50	.20	.40	.80	.80	.40	.70	.70	.20	1.8	.60	.30
13	.50	.10	.40	.80	.50	.40	.80	.60	.20	1.4	.40	.30
14	.50	.20	.40	.80	.40	.30	.80	.60	.10	1.2	.50	.20
15	.50	.90	.40	.80	.40	.50	.80	.50	.10	1.0	.40	.20
16	.40	1.0	.30	.80	.40	4.9	.80	.50	.10	.80	.40	.20
17	.20	.20	.30	.80	.30	2.7	.80	.50	.10	.80	.30	.20
18	.80	.20	.30	.80	.30	1.6	.80	.50	.10	.80	.30	.20
19	.80	.70	.30	.80	.30	1.2	.80	.50	.10	.70	.30	.20
20	.80	1.3	.30	1.9	.30	1.0	.70	.50	1.8	.60	.30	.20
21	.80	.80	.30	9.6	.30	.80	.70	.50	63	.60	.30	.20
22	.80	.60	.30	4.5	.30	19	.70	.40	23	.50	.30	.30
23	.80	.30	.30	2.1	.30	348	.70	.40	.10	.50	.30	.30
24	.80	.30	.30	1.4	.30	396	.80	164	.10	.50	.30	.30
25	.70	.20	.30	1.2	.30	336	.80	430	.10	.50	.30	.30
26	.50	.20	.30	1.2	.30	255	.80	388	.10	.50	.30	.30
27	.20	.20	.30	1.2	.30	170	.80	352	.10	.50	.30	.30
28	.20	.50	.50	2.6	.30	400	.80	305	.10	.50	.30	.30
29	.10	1.3	1.0	6.3	------	81	.80	284	.10	.50	.30	.30
30	.10	.40	1.0	5.0	------	31	.70	261	.10	.50	.30	.30
31	.10	------	1.0	6.2	------	27	------	219	------	.40	.30	------
TOTAL	16.50	11.10	24.60	59.00	22.40	2,080.10	30.00	2,417.20	1,152.20	20.30	11.20	8.20
MEAN	.53	.37	.79	1.90	.80	67.1	1.00	78.0	38.4	.65	.36	.27
MAX	.80	1.3	3.3	9.6	4.1	400	8.1	430	198	1.8	.60	.30
MIN	.10	.10	.30	.80	.30	.20	.50	.40	.10	.10	.30	.20
AC-FT	33	22	49	117	44	4,130	60	4,790	2,290	40	22	16
(+)	14,440	9,600	28,520	25,300	29,220	30,820	31,360	30,730	30,080	13,740	14,330	12,860

CAL YR 1966 TOTAL 4,700.40 MEAN 12.9 MAX 175 MIN 0 AC-FT 9,320
WTR YR 1967 TOTAL 5,852.80 MEAN 16.0 MAX 430 MIN .10 AC-FT 11,610

+ DIVERSION, IN ACRE-FEET, TO WOODLEAF POWERPLANT, FURNISHED BY OROVILLE-WYANDOTTE IRRIGATION DISTRICT.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	60	.28	.16	364	.58	.38	.16	.09	1.4	.85	.62
2	.57	.16	.24	.15	372	.54	.35	.16	.09	1.4	.47	.58
3	.24	.15	.32	.15	425	.47	.32	.16	.08	1.2	.85	.58
4	.09	.15	.80	.15	465	.44	.32	.15	.08	1.2	.26	.58
5	.06	.15	.54	.14	283	.44	.32	.15	.08	1.0	.04	.54
6	.06	.15	.22	.14	.44	.41	.30	.15	.08	1.0	.03	.50
7	.05	.15	.70	.13	.44	.41	.28	.15	.08	1.0	.03	.50
8	.05	.15	.26	.14	.44	.50	.26	.15	.08	.75	.03	.47
9	.05	.15	.20	.18	.80	.44	.24	.15	.06	.75	.69	.47
10	.05	.15	.18	1.0	1.2	.44	.22	.13	.06	.66	.66	.44
11	.05	.15	.18	.35	.85	.41	.20	.13	.05	.66	.62	.44
12	.05	.15	.17	.26	.80	.44	.20	.13	.05	.58	.50	.44
13	.05	.15	.16	.24	1.0	.62	.20	.16	.05	.66	.24	.44
14	.05	.32	.15	1.0	.80	1.2	.19	.14	.05	.58	.04	.44
15	.05	.20	.15	3.5	.75	1.2	.19	.13	.05	.39	.87	.44
16	.05	.19	.15	1.0	.95	1.6	.19	.11	.05	.04	1.4	.44
17	.05	.19	.15	.58	3.8	7.5	.19	.11	.05	.37	1.2	.44
18	.05	.24	.15	.47	2.3	105	.19	.11	.04	.58	1.0	.44
19	.05	.41	.15	.38	2.7	1.0	.19	.11	.04	.33	.95	.47
20	.05	.16	.15	.35	55	.80	.19	.12	.11	.62	.80	.47
21	.05	.15	.15	.32	4.7	.75	.19	.12	2.9	.54	.75	.47
22	.06	.17	.15	.30	3.1	.70	.19	.11	5.3	.58	.70	.47
23	.06	.17	.15	.30	2.5	.62	.18	.11	6.2	.31	.66	.47
24	.06	.18	.15	.28	1.7	.58	.18	.11	5.0	.38	.62	.44
25	.06	.18	.16	.26	1.4	.54	.18	.12	3.1	.06	.58	.47
26	.06	.18	.17	.24	1.2	.50	.18	.11	2.7	.48	.47	.47
27	.06	.20	.18	.24	.85	.47	.18	.11	2.3	.40	.07	.47
28	.06	.22	.19	.24	.75	.44	.18	.10	2.1	.04	.04	.47
29	.06	.28	.19	.28	.66	.41	.18	.09	1.6	0	.43	.44
30	.06	.32	.18	26	------	.38	.18	.09	1.4	.21	.66	.44
31	.06	------	.17	372	------	.38	------	.09	------	144	.62	------
TOTAL	130.37	65.57	7.14	410.93	1,998.13	130.21	6.74	3.92	33.92	162.17	17.13	14.35
MEAN	4.21	2.19	.23	13.3	68.9	4.20	.22	.13	1.13	5.23	.55	.48
MAX	128	60	.80	372	465	105	.38	.16	6.2	144	1.4	.62
MIN	.05	.15	.15	.13	.44	.38	.18	.09	.04	0	.03	.44
AC-FT	259	130	14	815	3,960	258	13	7.8	67	322	34	28
(+)	16,780	23,330	21,020	13,600	20,770	27,970	15,030	10,680	11,230	11,680	13,640	13,710

CAL YR 1967 TOTAL 6,003.68 MEAN 16.4 MAX 430 MIN .05 AC-FT 11,910
WTR YR 1968 TOTAL 2,980.58 MEAN 8.14 MAX 465 MIN 0 AC-FT 5,910

+ DIVERSION, IN ACRE-FEET, TO WOODLEAF POWERPLANT, FURNISHED BY OROVILLE-WYANDOTTE IRRIGATION DISTRICT.

11396000 LOST CREEK NEAR CLIPPER MILLS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FFET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.44	.11	.14	.20	54	1.9	216	.66	.10	21	9.5	7.0
2	.44	.34	.11	.18	20	191	210	.56	.10	20	9.5	7.0
3	.45	.44	.10	.20	3.4	135	198	.44	.10	20	9.2	7.0
4	.45	.14	.08	.20	2.8	.47	183	.41	.08	18	8.9	7.0
5	.44	.07	.07	.20	2.8	.47	231	.38	.08	18	8.9	7.0
6	.44	.06	.06	.20	2.7	.47	216	.35	.08	18	8.6	7.0
7	.44	.05	.06	.20	2.6	.47	192	.32	.08	17	8.6	7.0
8	.44	.05	.08	.20	2.6	.50	178	.26	.10	17	8.9	6.7
9	.44	.05	.09	.18	3.7	112	178	.26	.10	17	8.9	6.7
10	.44	.05	.96	.18	3.3	231	172	.26	.10	17	8.9	6.7
11	.50	.15	.47	.50	4.7	234	96	.24	.12	16	8.9	6.4
12	.68	.38	.22	1.2	41	219	1.5	.24	.91	16	8.6	6.4
13	.28	.11	.19	6.2	4.0	207	1.4	.24	13	15	8.6	6.4
14	.30	.10	.58	3.2	3.6	207	1.3	.24	22	14	8.6	6.4
15	.28	.18	1.4	1.6	5.2	207	1.3	.24	21	14	8.6	6.4
16	.28	.18	.48	1.0	4.3	207	1.1	.22	17	14	8.6	6.2
17	.26	.14	.24	.75	3.6	216	1.2	.22	29	13	8.6	6.0
18	.26	.24	.18	.75	3.2	204	1.0	.22	29	13	8.3	6.0
19	.26	.16	.14	4.5	2.7	204	1.0	.20	27	13	8.3	6.0
20	.26	1.8	.12	24	2.5	204	1.3	.18	26	12	8.0	6.0
21	.26	.08	.11	211	2.2	204	31	.18	26	12	8.0	6.0
22	.26	.07	.10	35	2.1	201	1.2	.18	26	12	8.0	6.0
23	.24	.06	.11	4.0	2.0	207	1.3	.18	25	11	8.0	5.8
24	.24	.14	1.1	2.6	2.0	207	1.2	.16	24	11	8.0	5.6
25	.24	.11	1.5	37	1.9	195	1.0	.16	24	11	8.0	5.6
26	.24	.08	.58	1,930	1.8	207	1.1	.16	24	11	7.7	5.6
27	.24	.07	.41	891	1.7	213	.75	.14	24	11	7.7	5.6
28	.22	.06	.35	451	2.0	210	.75	.14	24	11	7.4	5.6
29	.26	.06	.29	219	------	216	.70	.12	24	10	7.2	5.6
30	.16	.12	.24	72	------	219	.66	.10	24	9.8	7.0	5.6
31	.12	------	.22	76	------	222	------	.10	------	9.8	7.0	------
TOTAL	10.26	5.65	10.78	3,974.24	188.4	5,083.28	2,120.76	7.76	430.95	442.6	259.0	188.3
MEAN	.33	.19	.35	128	6.73	164	70.7	.25	14.4	14.3	8.35	6.28
MAX	.68	1.8	1.5	1,930	54	234	231	.66	29	21	9.5	7.0
MIN	.12	.05	.06	.18	1.7	.47	.66	.10	.08	9.8	7.0	5.6
AC-FT	20	11	21	7,880	374	10,080	4,210	15	855	878	514	373
(†)	11,600	9,370	11,280	22,450	27,710	31,490	29,880	32,240	20,870	11,580	12,220	18,480

CAL YR 1968 TOTAL 2,304.19 MEAN 7.66 MAX 465 MIN 0 AC-FT 5,560
WTR YR 1969 TOTAL 12,721.98 MEAN 34.9 MAX 1,930 MIN .05 AC-FT 25,230

† DIVERSION, IN ACRE-FEET, TO WOODLEAF POWERPLANT, FURNISHED BY OROVILLE-WYANDOTTE IRRIGATION DISTRICT.

DISCHARGF, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	.04	.04	.22	2.5	2.4	.24	1.6	1.1	.58	.46	.58
2	5.5	.04	.04	.18	2.3	1.0	.24	1.7	1.1	.52	.43	.55
3	4.4	.02	.04	.16	18	69	.22	1.6	1.1	.52	.43	.55
4	.14	.02	.04	.14	99	.52	.22	1.5	1.1	.52	.43	.52
5	.02	.24	.05	.14	110	.37	.20	1.5	1.1	.49	.43	.52
6	.02	.09	.05	.12	134	.34	.20	1.3	1.1	.49	.43	.52
7	.03	.16	.05	.12	110	.31	.80	1.2	1.0	.58	.43	.49
8	.09	.10	.10	.20	76	.52	43	1.2	1.0	.66	.43	.49
9	.08	.07	.09	1.4	54	.46	36	1.2	.94	.66	.43	.46
10	.08	.06	.24	1.8	30	.43	24	1.1	.90	.66	.49	.46
11	.07	.06	.57	.90	10	.40	3.6	.98	.90	.66	.55	.46
12	.07	.05	.74	1.0	64	.37	.26	.94	.90	.62	.55	.46
13	.07	.04	.31	3.8	278	.37	.31	.94	.90	.62	.55	.46
14	.10	.04	.16	7.8	320	.34	.28	.90	.82	.62	.55	.46
15	.26	.04	.11	3.8	272	.31	.26	.90	.69	.62	.58	.43
16	.20	.06	.09	6.4	282	.28	.26	.90	.36	.58	.58	.43
17	.11	.05	.09	103	388	.28	.24	.86	.82	.58	.58	.43
18	.09	.05	.12	784	171	.26	.24	.86	.78	.58	.55	.43
19	.08	.05	1.2	752	53	.26	.26	.82	.74	.52	.52	.43
20	.08	.05	1.5	632	.81	.24	.22	.78	.74	.49	.55	.40
21	.08	.05	3.0	1,220	.34	.24	.42	.78	.64	.49	.55	.40
22	6.0	.05	.74	2,240	.28	.24	.82	.78	.28	.49	.55	.37
23	11	.05	1.6	1,510	.24	.24	.78	.78	.74	.49	.55	.37
24	11	.05	3.2	2,060	.24	.24	.82	.74	.74	.49	.52	.37
25	11	.05	1.5	1,150	.20	.24	1.3	.78	.70	.49	.55	.34
26	10	.04	.86	728	.20	.22	1.6	.86	.70	.46	.52	.31
27	11	.04	.62	752	.18	.24	1.4	.90	.66	.46	.52	.31
28	9.1	.04	.43	471	.33	.22	1.2	.90	.66	.46	.52	.37
29	.19	.04	.34	220	------	.22	1.5	1.1	.62	.46	.52	.37
30	.04	.04	.28	84	------	.24	1.9	1.2	.62	.46	.58	.37
31	.04	------	.24	14	------	.24	------	1.1	------	.46	.58	------
TOTAL	86.74	1.78	18.44	12,748.18	2,476.62	81.04	122.79	32.70	24.45	16.78	15.91	13.11
MEAN	2.80	.059	.59	411	88.5	2.61	4.09	1.05	.82	.54	.51	.44
MAX	11	.24	3.2	2,240	388	69	43	1.7	1.1	.66	.58	.58
MIN	.02	.02	.04	.10	.18	.22	.20	.74	.28	.46	.43	.31
AC-FT	172	3.5	37	25,290	4,910	161	244	65	49	33	32	26
(†)	23,480	17,500	25,150	22,690	27,110	28,090	8,560	12,230	12,430	14,230	18,700	17,090

CAL YR 1969 TOTAL 12,802.25 MEAN 35.1 MAX 1,930 MIN .02 AC-FT 25,390
WTR YR 1970 TOTAL 15,638.54 MEAN 42.8 MAX 2,240 MIN .02 AC-FT 31,020

† DIVERSION, IN ACRE-FEET, TO WOODLEAF POWERPLANT, FURNISHED BY OROVILLE-WYANDOTTE IRRIGATION DISTRICT.

11396200 SOUTH FORK FEATHER RIVER BELOW FORBESTOWN DAM, CALIF.

LOCATION.--Lat 39°33'05", long 121°12'30", in NE¼ sec.32, T.20 N., R.7 E., Butte County, Plumas National Forest, on right bank 500 ft downstream from Forbestown Dam, 0.4 mile upstream from Oroleve Creek, and 4.0 miles northeast of Forbestown.

DRAINAGE AREA.--87.5 sq mi.

PERIOD OF RECORD.--July 1962 to September 1970. Records for Forbestown powerplant for February 1963 to September 1966 in files of Geological Survey.

GAGE.--Water-stage recorder. Altitude of gage is 1,690 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 82.7 cfs (59,920 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Oct. 22, 1965	172	4.67	Nov. 6, 7, 1965	3.0
1967	May 24, 1967	1,280	8.39	Nov. 3, 1966	2.7
1968	Jan. 31, 1968	774	7.21	Dec. 6, 9, 10, 1967	5.6
1969	Jan. 26, 1969	5,450	12.59	Jan. 18, 1969	4.9
1970	Jan. 22, 1970	6,930	13.53	Feb. 20, 23-25, 1970	5.0

Period of record: Maximum discharge, 7,510 cfs Jan. 31, 1963 (gage height, 13.85 ft in gage well; 15.3 ft, from floodmarks); minimum daily, 0.60 cfs Apr. 4, 1963.

REMARKS.--Records fair. Flow regulated by Little Grass Valley Reservoir (see station 11395020), Sly Creek Reservoir (see station 11395400), and smaller reservoirs. Water from North Yuba River basin is imported through Slate Creek tunnel (see station 11413250) to Sly Creek Reservoir. Oroville-Wyandotte Canal (see station 11395500) diverts above station. Tunnel 600 ft above station diverts most flow through Forbestown powerplant except fishwater releases and uncontrolled spill over Forbestown Dam. See schematic diagram of South Fork Feather River basin elsewhere in this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	156	4.1	4.3	4.2	5.0	4.9	10	9.6	11	5.0	12
2	9.0	154	4.2	4.3	4.2	5.0	4.9	10	9.6	11	5.0	12
3	9.0	134	4.3	4.3	4.2	5.0	4.9	19	9.6	11	4.7	12
4	9.3	59	4.3	4.4	4.7	5.0	4.9	10	9.6	11	4.6	12
5	9.3	3.2	4.3	4.6	5.2	5.0	4.9	10	9.6	11	4.7	12
6	9.3	3.0	4.3	4.4	5.2	5.0	4.9	10	9.6	11	4.9	12
7	9.3	3.0	4.3	4.4	5.2	5.0	4.9	9.9	9.6	11	5.0	12
8	9.3	3.2	4.3	4.4	5.2	5.0	4.9	9.9	9.9	11	4.9	12
9	9.3	3.4	4.3	4.4	5.2	5.0	4.9	9.9	10	11	5.0	12
10	9.3	3.6	4.3	4.4	5.0	5.2	4.9	9.9	11	11	5.0	11
11	9.3	3.8	4.3	4.4	5.0	5.2	4.9	9.9	11	11	5.2	11
12	9.3	3.6	4.3	4.4	5.0	5.2	4.9	9.9	11	11	9.7	11
13	9.3	3.6	4.3	4.4	5.0	5.2	4.9	9.9	11	12	12	11
14	9.3	3.8	4.3	4.4	5.0	5.2	4.9	9.9	11	12	12	11
15	9.6	3.8	4.3	4.4	5.0	5.2	4.9	9.9	11	11	13	11
16	9.6	3.8	4.3	4.4	4.9	5.0	4.9	9.9	11	11	13	11
17	9.6	4.1	4.3	4.4	4.9	5.0	4.9	9.9	11	11	13	11
18	127	3.9	4.3	4.4	4.9	5.0	4.9	9.9	11	11	13	10
19	159	3.9	4.3	4.4	5.0	5.0	4.9	9.9	11	11	13	10
20	157	3.9	4.3	4.4	5.0	5.0	4.9	9.9	11	11	13	10
21	161	3.9	4.3	4.6	4.9	5.0	4.9	9.9	11	8.2	13	10
22	164	3.9	4.3	4.6	4.9	5.0	4.9	9.9	11	4.9	13	10
23	165	3.9	4.3	4.6	5.0	5.0	4.9	9.9	11	4.9	13	10
24	162	4.1	4.3	4.6	5.0	5.0	4.9	9.9	11	4.9	12	10
25	161	4.1	4.3	4.6	5.0	5.0	4.9	9.9	11	4.9	12	10
26	161	4.1	4.3	4.6	5.0	5.0	4.9	9.9	11	4.9	12	9.9
27	157	4.1	4.3	4.6	5.0	5.0	4.9	9.9	11	4.9	12	9.9
28	157	4.1	4.3	4.6	5.0	4.9	7.1	9.9	11	4.9	12	9.9
29	157	4.1	4.3	4.6	------	4.9	11	9.9	11	4.9	12	9.9
30	157	4.1	4.3	4.7	------	4.9	10	9.9	11	4.9	12	10
31	157	------	4.3	4.6	------	4.9	------	9.9	------	5.0	12	------
TOTAL	2,360.1	601.0	133.0	138.6	137.8	155.8	160.4	316.5	318.1	279.3	300.7	325.6
MEAN	76.1	20.0	4.29	4.47	4.92	5.03	5.35	10.2	10.6	9.01	9.70	10.9
MAX	165	156	4.3	4.7	5.2	5.2	11	19	11	12	13	12
MIN	9.0	3.0	4.1	4.3	4.2	4.9	4.9	9.9	9.6	4.9	4.6	9.9
AC-FT	4,680	1,190	264	275	273	309	318	628	631	554	596	646
(†)	14,090	17,410	25,640	18,040	5,110	7,060	27,460	29,150	13,210	14,070	12,700	14,210

CAL YR 1965 TOTAL 30,574.0 MEAN 83.8 MAX 1,480 MIN 3.0 AC-FT 60,640
WTR YR 1966 TOTAL 5,226.9 MEAN 14.3 MAX 165 MIN 3.0 AC-FT 10,370

† DIVERSION, IN ACRE-FEET, TO FORBESTOWN POWERPLANT, FURNISHED BY OROVILLE-WYANDOTTE IRRIGATION DISTRICT.

11396200 SOUTH FORK FEATHER RIVER BELOW FORBESTOWN DAM, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECONO, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	OEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.9	8.2	5.6	5.8	236	6.8	50	28	408	8.1	9.4	11
2	9.9	3.0	32	5.8	144	6.8	36	34	350	8.1	9.4	11
3	9.9	2.7	8.0	5.8	84	6.8	33	42	310	8.1	9.4	11
4	9.9	4.2	6.3	5.8	42	6.8	31	46	334	8.1	9.4	11
5	9.9	5.4	109	5.8	27	6.8	43	44	332	8.1	9.1	11
6	9.9	5.6	154	5.8	20	6.6	141	49	280	8.1	9.8	11
7	9.9	5.4	69	5.8	11	6.6	130	82	208	8.1	9.8	11
8	9.9	5.4	14	5.8	11	6.6	81	98	75	7.8	9.8	11
9	9.9	5.4	5.6	5.6	8.9	6.6	60	102	8.4	7.8	9.8	11
10	9.9	5.6	5.6	5.6	7.1	6.8	61	131	9.4	8.1	9.8	11
11	9.9	5.6	5.6	5.6	7.1	17	59	108	9.4	8.1	9.8	11
12	9.9	5.6	5.6	5.6	7.1	6.8	48	100	10	8.8	10	11
13	9.9	5.6	5.6	5.6	7.1	6.8	46	84	9.8	9.1	10	11
14	9.9	5.6	5.6	5.8	7.1	7.1	56	86	9.8	9.1	10	11
15	9.9	5.7	5.6	5.8	7.1	7.1	54	88	9.8	8.8	10	11
16	9.9	5.6	5.6	5.8	7.1	497	46	84	29	8.8	9.8	11
17	9.9	5.4	5.6	5.8	7.1	597	56	79	111	8.8	9.8	11
18	9.9	5.4	5.4	5.8	7.1	410	59	73	100	8.8	10	11
19	9.9	5.6	5.4	5.8	7.1	274	60	65	98	9.1	10	11
20	9.9	5.7	5.4	6.4	7.1	198	54	74	95	9.1	10	11
21	9.9	5.6	5.4	324	7.1	131	48	69	169	9.1	10	11
22	9.9	5.6	5.4	156	7.1	80	42	52	92	9.1	10	11
23	9.9	5.4	5.6	26	7.1	401	47	258	8.4	9.1	10	11
24	9.9	5.4	5.6	36	7.1	430	58	1,020	8.4	9.1	10	11
25	9.9	5.4	5.6	23	7.4	346	59	1,200	8.4	9.1	10	11
26	9.9	5.2	5.6	6.4	7.4	268	51	1,010	8.4	9.1	10	8.7
27	9.9	5.2	5.6	11	7.4	198	54	728	8.1	9.1	10	6.8
28	9.9	5.4	5.6	113	6.8	399	48	579	8.1	9.1	10	7.8
29	9.9	5.4	5.6	483	------	136	34	513	8.1	9.1	10	7.8
30	9.9	5.4	5.6	324	------	76	36	470	8.1	9.4	11	7.8
31	9.9	------	5.8	449	------	75	------	422	------	9.4	11	------
TOTAL	306.9	160.7	525.9	2,067.0	719.4	4,628.0	1,681	7,818	3,123.6	269.6	307.1	313.9
MEAN	9.90	5.36	17.0	66.7	25.7	149	56.0	252	104	8.70	9.91	10.5
MAX	9.9	8.2	154	483	236	597	141	1,200	408	9.4	11	11
MIN	9.9	2.7	5.4	5.6	6.8	6.6	31	28	8.1	7.8	9.1	6.8
AC-FT	609	319	1,040	4,100	1,430	9,180	3,330	15,510	6,200	535	609	623
(†)	13,570	10,760	33,940	31,270	34,550	37,990	38,310	38,950	36,610	15,810	15,250	13,620

CAL YR 1966 TOTAL 3,126.3 MEAN 8.57 MAX 154 MIN 2.7 AC-FT 6,200
WTR YR 1967 TOTAL 21,921.1 MEAN 60.1 MAX 1,200 MIN 2.7 AC-FT 43,480

† DIVERSION, IN ACRE-FEET, TO FORBESTOWN POWERPLANT, FURNISHED BY OROVILLE-WYANDOTTE IRRIGATION DISTRICT.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	7.8	6.1	6.8	88	7.8	7.1	7.4	11	11	11	11
2	8.1	6.8	6.1	6.8	101	7.8	7.4	10	11	11	11	11
3	7.8	6.8	6.4	6.8	10	7.8	7.4	12	11	11	11	11
4	8.1	6.8	6.1	6.8	10	7.8	7.4	12	11	11	10	11
5	7.6	6.8	34	6.8	7.6	7.8	7.4	12	11	11	10	11
6	7.6	6.8	5.6	6.6	7.4	7.8	7.4	11	11	10	10	11
7	7.6	6.6	5.8	6.6	7.1	8.1	7.4	11	11	10	10	11
8	7.6	6.8	5.8	6.6	7.1	8.1	7.4	11	11	11	10	11
9	7.6	6.6	5.6	6.6	7.1	8.1	7.4	11	11	11	10	11
10	7.6	6.6	5.6	6.8	7.1	8.1	7.4	11	11	10	11	11
11	7.6	6.4	5.8	6.6	7.1	7.8	7.4	11	11	10	11	10
12	7.6	6.4	5.8	6.6	7.1	8.4	7.4	11	11	10	11	11
13	7.6	6.4	5.8	6.8	7.1	8.4	7.4	12	11	10	11	11
14	7.4	6.6	5.6	6.8	7.1	16	7.4	12	11	10	11	11
15	7.4	6.6	5.8	7.1	7.1	41	7.4	12	11	10	11	11
16	7.4	6.6	7.9	7.1	7.1	73	7.4	11	11	10	11	11
17	7.4	6.6	5.8	7.4	28	6.6	7.4	11	11	9.8	11	11
18	7.4	6.8	5.8	7.4	7.6	42	7.4	11	11	9.8	11	11
19	7.4	6.8	5.8	7.1	30	8.8	7.4	11	11	9.8	11	11
20	7.6	6.8	5.8	6.8	188	7.1	7.4	11	11	9.8	11	12
21	7.6	6.8	5.8	6.8	28	6.6	7.4	11	11	9.4	11	11
22	7.6	6.8	6.1	6.8	7.6	6.6	7.4	11	11	9.8	11	11
23	7.6	7.1	6.1	6.8	7.6	6.6	7.4	11	11	9.8	11	11
24	7.4	7.1	6.1	6.8	7.6	6.6	7.4	11	11	9.8	11	11
25	7.6	7.1	6.1	6.8	7.6	6.6	7.4	11	11	9.8	11	11
26	7.6	7.1	6.1	6.8	7.6	6.6	7.4	11	11	9.8	11	12
27	7.6	7.1	6.4	6.8	7.6	6.6	7.4	11	11	9.8	11	12
28	7.6	7.4	6.4	6.8	7.6	6.6	7.4	11	11	9.4	11	11
29	7.6	7.4	6.6	7.1	7.8	6.6	7.4	11	11	9.4	11	11
30	7.8	7.4	6.6	7.1	------	7.1	7.4	11	11	9.4	11	11
31	7.8	------	6.6	376	------	7.1	------	11	------	9.8	11	------
TOTAL	236.0	205.7	215.9	581.5	637.6	371.9	221.7	342.4	330	312.4	335	332
MEAN	7.61	6.86	6.96	18.8	22.0	12.0	7.39	11.0	11.0	10.1	10.8	11.1
MAX	8.1	7.8	34	376	188	73	7.4	12	11	11	11	12
MIN	7.4	6.4	5.6	6.6	7.1	6.6	7.1	7.4	11	9.4	10	10
AC-FT	468	408	428	1,150	1,260	738	440	679	655	620	664	659
(†)	18,300	25,830	22,890	15,500	33,560	35,460	19,380	12,740	13,450	13,960	13,330	12,830

CAL YR 1967 TOTAL 21,585.2 MEAN 59.1 MAX 1,200 MIN 5.6 AC-FT 42,810
WTR YR 1968 TOTAL 4,122.1 MEAN 11.3 MAX 376 MIN 5.6 AC-FT 8,180

† DIVERSION, IN ACRE-FEET, TO FORBESTOWN POWERPLANT, FURNISHED BY OROVILLE-WYANDOTTE IRRIGATION DISTRICT.

11396200 SOUTH FORK FEATHER RIVER BELOW FORBESTOWN DAM, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	8.2	5.2	5.6	314	110	606	16	14	14	14	14
2	11	5.2	5.2	5.6	208	250	594	13	14	14	14	14
3	11	5.2	5.2	5.6	127	196	552	9.4	14	14	14	14
4	11	5.2	5.1	5.6	157	26	510	12	14	14	14	14
5	11	5.2	5.1	5.6	182	14	649	5.8	14	14	14	14
6	11	5.2	5.1	5.6	202	11	579	10	14	14	14	14
7	11	5.2	5.1	5.6	164	15	564	14	14	14	14	14
8	11	5.2	5.1	5.6	130	13	490	94	14	14	14	14
9	11	5.2	5.2	5.6	181	80	490	198	14	14	14	14
10	11	5.2	5.4	5.6	182	181	455	272	14	14	14	14
11	11	5.4	5.2	5.8	232	177	417	314	14	14	14	13
12	11	5.4	5.2	5.8	210	174	326	324	14	14	14	14
13	11	5.2	5.4	257	238	167	336	332	14	14	14	14
14	11	5.2	5.6	113	126	163	326	344	14	14	14	14
15	11	5.2	5.8	7.6	388	163	266	244	14	14	14	14
16	11	5.2	5.6	12	344	161	97	235	14	14	14	14
17	11	5.1	5.6	5.1	224	179	121	216	14	14	14	14
18	11	5.2	5.6	4.9	44	178	35	228	14	14	14	14
19	11	5.2	5.6	84	290	175	49	177	14	14	14	14
20	11	5.1	5.6	1.690	99	175	40	14	14	14	14	14
21	11	5.2	5.6	2,290	87	196	76	14	14	14	14	14
22	11	5.2	5.6	962	79	186	31	14	14	14	14	14
23	11	5.2	5.6	229	84	185	76	14	14	14	14	14
24	11	5.2	5.8	172	93	188	79	14	14	14	14	14
25	11	5.2	5.8	770	90	243	62	14	14	14	14	14
26	11	5.2	5.6	4,000	73	425	50	14	14	14	14	14
27	11	5.2	5.6	2,350	58	482	34	14	14	14	14	14
28	11	5.2	5.6	1.520	111	508	22	14	14	14	14	14
29	11	5.2	5.6	935	------	513	23	14	14	15	14	14
30	11	5.2	5.6	636	------	555	18	14	14	15	14	14
31	11	------	5.6	356	------	606	------	14	------	15	14	------
TOTAL	341	159.2	168.9	16.461.2	4,717	6.695	7,973	3,226.2	420	437	434	419
MEAN	11.0	5.31	5.45	531	168	216	266	104	14.0	14.1	14.0	14.0
MAX	11	8.2	5.8	4,000	388	606	649	344	14	15	14	14
MIN	11	5.1	5.1	4.9	44	11	18	5.8	14	14	14	13
AC-FT	676	316	335	32.650	9,360	13,280	15,810	6,400	833	867	861	831
(†)	11,800	9,930	13,760	31,310	34,870	39,080	37,680	37,620	23,270	12,520	12,600	18,470

CAL YR 1968 TOTAL 4,133.6 MEAN 11.3 MAX 376 MIN 5.1 AC-FT 8,200
WTR YR 1969 TOTAL 41,451.5 MEAN 114 MAX 4,000 MIN 4.9 AC-FT 82,220

† DIVERSION, IN ACRE-FEET, TO FORBESTOWN POWERPLANT, FURNISHED BY OROVILLE-WYANDOTTE IRRIGATION DISTRICT.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	14	5.5	6.2	361	207	7.2	6.6	5.5	10	11	11
2	14	14	5.5	6.2	230	104	7.2	6.6	5.5	10	11	10
3	14	14	5.5	6.2	38	26	7.0	6.6	5.5	10	11	10
4	14	11	5.5	6.2	95	31	6.8	6.6	5.3	10	11	10
5	14	5.5	5.5	6.2	134	29	7.0	6.6	5.3	10	11	10
6	14	5.2	5.5	6.2	161	45	8.3	6.6	5.3	10	11	10
7	14	5.5	5.5	6.2	133	34	6.6	6.6	5.3	10	11	10
8	14	5.5	5.5	6.2	92	85	6.6	6.6	5.3	10	11	10
9	14	5.5	5.5	68	57	64	6.6	6.6	5.3	10	11	10
10	14	5.5	5.5	141	28	62	6.6	6.6	5.3	10	11	10
11	14	5.5	5.5	52	6.1	50	6.6	6.6	7.9	10	11	10
12	14	5.5	5.5	46	52	40	6.6	6.6	9.8	10	11	10
13	14	5.5	5.5	234	280	31	6.8	6.6	9.8	10	11	10
14	14	5.5	5.5	1,280	332	25	6.6	6.6	9.8	10	11	9.8
15	14	5.5	5.5	843	244	17	6.6	6.6	9.8	10	11	9.8
16	14	5.5	5.5	2,270	229	50	6.6	6.6	9.8	10	11	9.8
17	14	5.5	5.5	2,580	405	15	6.6	6.6	9.8	10	11	9.8
18	14	5.5	5.5	2.340	145	15	6.6	6.6	10	10	10	9.8
19	14	5.5	13	1,840	26	6.8	6.6	6.6	10	10	10	9.8
20	14	5.5	48	1.700	5.0	6.8	6.6	6.6	10	10	10	9.8
21	14	5.2	290	3.840	10	7.3	6.4	6.6	10	10	10	9.8
22	14	5.2	20	5,750	6.8	11	6.6	6.6	10	10	10	9.8
23	14	5.2	98	4,200	5.0	18	6.6	6.6	10	10	10	9.6
24	14	5.2	335	5,180	5.0	7.1	6.6	6.6	10	10	10	9.6
25	14	5.2	88	2,870	5.0	7.1	6.6	32	10	10	10	9.6
26	14	5.2	10	1,810	23	7.1	6.6	5.8	10	10	10	9.6
27	14	5.2	6.2	2,020	52	7.1	6.8	5.8	10	11	10	9.6
28	14	5.5	6.2	1,320	17	7.1	6.6	5.5	10	11	10	9.6
29	14	5.5	6.2	900	------	7.3	6.6	5.5	10	11	10	9.6
30	14	5.5	6.2	650	------	7.3	6.8	5.5	10	11	11	9.6
31	14	------	6.2	470	------	7.3	------	5.5	------	11	11	------
TOTAL	434	193.6	1,032.0	42.453.6	3.176.9	1,037.3	202.3	224.0	250.3	315	329	296.0
MEAN	14.0	6.45	33.3	1,369	113	33.5	6.74	7.23	8.34	10.2	10.6	9.87
MAX	14	14	335	5,750	405	207	8.3	32	10	11	11	11
MIN	14	5.2	5.5	6.2	5.0	6.8	6.4	5.5	5.3	10	10	9.6
AC-FT	861	384	2,050	84,210	6,300	2,060	401	444	496	625	653	587
(†)	24,040	17,400	28,100	37,420	34,420	33,770	10,950	13,040	12,530	13,700	17,550	15,880

CAL YR 1969 TOTAL 42,442.0 MEAN 116 MAX 4,000 MIN 4.9 AC-FT 84,180
WTR YR 1970 TOTAL 49,944.0 MEAN 137 MAX 5,750 MIN 5.0 AC-FT 99,060

† DIVERSION, IN ACRE-FEET, TO FORBESTOWN POWERPLANT, FURNISHED BY OROVILLE-WYANDOTTE IRRIGATION DISTRICT.

11396310 MINERS RANCH CANAL BELOW PONDEROSA DAM, NEAR FORBESTOWN, CALIF.

LOCATION.--Lat 39°33'00",,long 121°18'20", in SE¼NW¼ sec.33, T.20 N., R.6 E., Butte County, on right bank 800 ft downstream from Ponderosa Dam and 3 miles northwest of Forbestown.

PERIOD OF RECORD.--October 1962 to September 1970.

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is 975 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 220 cfs (159,400 acre-ft per year).

EXTREMES.--Period of record: Maximum daily discharge, 277 cfs July 22, 1965; no flow at times in most years.

REMARKS.--Records excellent. Canal diverts from South Fork Feather River at Ponderosa Dam. Water is used for power development and irrigation. See schematic diagram of South Fork Feather River basin elsewhere in this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	268	168	234	223	198	98	212	274	261	276	262	261
2	266	165	234	223	219	98	227	274	243	274	158	261
3	268	157	234	223	214	98	203	272	259	271	82	263
4	270	166	234	223	218	98	201	272	258	264	182	264
5	270	188	235	223	226	98	268	272	253	254	264	262
6	270	190	235	222	224	98	272	271	241	268	150	262
7	271	188	236	222	224	120	268	271	261	263	93	263
8	271	180	236	222	223	161	263	267	258	263	192	262
9	271	158	236	228	216	176	254	267	254	264	228	262
10	272	230	236	234	176	176	224	267	258	263	262	262
11	272	231	233	234	164	165	226	267	259	266	264	259
12	240	220	232	234	163	153	228	261	263	270	267	257
13	271	217	229	234	165	198	218	262	262	271	264	261
14	271	226	210	234	134	228	226	263	261	267	259	262
15	271	229	212	234	109	222	240	264	261	271	258	264
16	271	231	190	233	109	215	250	264	261	268	135	264
17	271	230	215	233	109	203	251	257	257	261	259	264
18	271	212	234	230	109	194	213	264	254	262	264	262
19	268	209	234	226	115	213	247	264	258	268	264	262
20	261	229	234	208	137	197	246	266	259	268	264	261
21	170	229	234	209	149	192	246	266	262	264	266	257
22	152	229	227	229	149	178	248	262	262	259	264	259
23	156	232	229	235	149	185	257	258	262	264	261	259
24	156	234	233	234	149	211	262	251	241	262	264	259
25	156	234	232	234	148	226	268	251	266	262	262	259
26	212	232	229	228	148	223	268	261	266	264	264	258
27	30	232	229	192	148	216	271	263	267	271	264	258
28	93	232	227	153	122	208	275	262	272	266	264	263
29	202	232	206	153	------	221	272	258	267	264	264	246
30	145	232	223	153	------	226	272	258	253	264	264	247
31	155	------	223	153	------	222	------	258	------	259	262	------
TOTAL	6,991	6,342	7,065	6,716	4,614	5,517	7,376	8,187	7,759	8,231	7,270	7,803
MEAN	226	211	228	217	165	178	246	264	259	266	235	260
MAX	272	234	236	235	226	228	275	274	272	276	267	264
MIN	30	157	190	153	109	98	201	251	241	254	82	246
AC-FT	13,870	12,580	14,010	13,320	9,150	10,940	14,630	16,240	15,390	16,330	14,420	15,480
(†)	11,570	12,140	13,610	13,110	8,640	10,260	13,190	13,300	12,080	12,780	10,840	12,330

CAL YR 1965 TOTAL 81,900.60 MEAN 224 MAX 277 MIN 0 AC-FT 162,500
WTR YR 1966 TOTAL 83,871.00 MEAN 230 MAX 276 MIN 30 AC-FT 166,400

† DIVERSION, IN ACRE-FEET, TO KELLY RIDGE POWERPLANT, FURNISHED BY OROVILLE-WYANDOTTE IRRIGATION DISTRICT.

11396310 MINERS RANCH CANAL BELOW PONDEROSA DAM, NEAR FORBESTOWN, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	252	258	0	232	232	234	234	229	274	274	266	270
2	254	232	12	232	206	234	234	230	274	274	271	270
3	254	251	123	232	235	234	235	230	272	274	274	267
4	259	252	238	232	238	235	236	230	272	271	272	266
5	263	246	244	232	238	236	236	232	271	270	271	264
6	261	253	215	232	238	236	235	238	267	268	268	267
7	263	245	220	233	236	235	233	240	263	267	267	267
8	262	229	234	233	236	232	232	36	259	270	268	267
9	252	221	233	233	236	228	232	0	253	267	268	267
10	250	221	233	234	236	228	232	0	251	264	271	264
11	261	224	233	234	236	228	233	0	252	268	271	262
12	205	222	234	234	236	228	234	0	261	268	270	264
13	262	203	234	234	224	228	234	93	271	268	267	266
14	261	195	234	234	234	221	234	219	272	270	268	266
15	261	219	234	234	234	215	233	242	272	268	268	266
16	258	218	234	246	202	215	233	241	272	264	268	266
17	258	136	234	238	199	216	232	241	272	267	268	268
18	261	221	234	230	236	218	229	248	272	270	268	266
19	261	221	234	232	236	220	226	252	270	270	268	268
20	262	222	234	224	235	228	220	256	270	268	268	268
21	262	221	234	189	235	232	220	254	270	270	268	268
22	261	221	234	175	235	235	223	254	270	272	268	266
23	259	219	234	200	235	236	228	253	272	267	270	264
24	259	213	234	234	234	235	228	254	275	251	270	263
25	259	207	234	234	234	234	229	253	276	267	270	263
26	261	216	234	238	234	234	229	253	275	274	270	266
27	259	211	234	233	234	234	226	256	275	272	270	266
28	259	34	234	228	234	234	222	258	275	272	268	264
29	261	0	234	202	------	234	226	267	274	272	270	264
30	258	0	234	229	------	238	228	271	274	264	270	264
31	258	------	233	232	------	236	------	274	------	244	270	------
TOTAL	7,976	6,031	6,664	7,059	6,478	7,131	6,906	6,304	8,076	8,305	8,344	7,977
MEAN	257	201	215	228	231	230	230	203	269	268	269	266
MAX	263	258	244	246	238	238	236	274	276	274	274	270
MIN	205	0	0	175	199	215	220	0	251	244	266	262
AC-FT	15,820	11,960	13,220	14,000	12,850	14,140	13,700	12,500	16,020	16,470	16,550	15,820
(†)	13,119	11,441	12,668	13,632	12,335	13,678	13,419	11,268	13,252	12,806	12,524	12,129

CAL YR 1966 TOTAL 84,144 MEAN 231 MAX 276 MIN 0 AC-FT 166,900
WTR YR 1967 TOTAL 87,251 MEAN 239 MAX 276 MIN 0 AC-FT 173,100

† DIVERSION, IN ACRE-FEET, TO KELLY RIDGE POWERPLANT, FURNISHED BY OROVILLE-WYANDOTTE IRRIGATION DISTRICT.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	259	261	228	212	261	259	254	240	256	254	254	252
2	259	227	228	210	261	258	256	240	254	256	254	250
3	261	210	228	216	250	256	256	240	252	253	254	250
4	261	212	228	171	250	253	256	240	253	253	253	251
5	261	200	228	250	250	253	257	239	253	252	253	251
6	261	181	228	246	252	252	258	212	254	252	253	250
7	259	172	228	241	254	252	258	238	254	251	253	250
8	258	222	228	252	254	252	258	240	254	251	256	248
9	254	239	232	251	259	252	257	240	253	252	256	245
10	261	241	242	252	266	252	259	240	252	252	253	248
11	266	199	251	244	266	252	258	240	253	252	253	250
12	264	173	262	232	266	252	256	240	254	252	252	251
13	263	184	267	232	262	252	257	239	256	251	252	252
14	263	232	267	247	266	251	256	239	257	250	253	251
15	263	241	267	256	266	250	248	240	257	251	253	250
16	55	242	267	261	266	245	246	241	256	251	253	248
17	0	236	267	259	263	247	246	241	254	251	252	250
18	0	224	266	252	261	247	246	241	254	257	251	251
19	0	215	257	250	258	245	246	240	254	261	250	251
20	0	219	256	257	254	251	246	238	254	259	251	251
21	76	228	254	261	253	253	246	238	254	256	251	250
22	144	234	245	262	244	256	244	239	254	256	251	248
23	28	234	238	262	261	256	244	239	253	257	252	240
24	0	234	230	261	254	256	244	239	253	258	252	242
25	0	234	227	256	259	256	244	239	253	258	252	247
26	20	234	127	254	261	256	244	239	254	257	251	252
27	125	234	0	256	261	256	244	238	254	257	253	251
28	168	232	74	256	261	254	244	239	254	256	253	251
29	151	228	233	257	261	252	242	250	254	253	253	248
30	198	228	235	259	------	253	242	256	254	254	253	248
31	261	------	238	258	------	252	------	256	------	254	252	------
TOTAL	5,139	6,650	7,026	7,633	7,500	7,831	7,512	7,440	7,621	7,877	7,832	7,477
MEAN	166	222	227	246	259	253	250	240	254	254	253	249
MAX	266	261	267	262	266	259	259	256	257	261	256	252
MIN	0	172	0	171	244	245	242	212	252	250	250	240
AC-FT	10,190	13,190	13,940	15.140	14,880	15,530	14,900	14,760	15,120	15,620	15,530	14,830
(†)	7,710	12,820	13,390	14,380	14,320	15,170	12,550	12,280	12,300	12,310	12,440	12,050

CAL YR 1967 TOTAL 85,395.00 MEAN 234 MAX 276 MIN 0 AC-FT 169,400
WTR YR 1968 TOTAL 87,538.00 MEAN 239 MAX 267 MIN 0 AC-FT 173,600

† DIVERSION, IN ACRE-FEET, TO KELLY RIDGE POWERPLANT, FURNISHED BY OROVILLE-WYANDOTTE IRRIGATION DISTRICT.

11396310 MINERS RANCH CANAL BELOW PONDEROSA DAM, NEAR FORBESTOWN, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	248	110	222	238	150	176	253	246	258	246	239	238
2	250	235	210	239	149	176	253	256	257	251	239	239
3	252	235	239	239	149	175	252	256	257	254	238	240
4	252	235	228	226	150	175	252	256	256	254	238	240
5	251	235	102	192	150	175	252	256	256	252	238	240
6	248	236	209	236	150	175	252	256	256	246	238	238
7	248	233	224	238	150	174	252	256	256	246	239	236
8	247	222	187	118	149	175	252	256	254	248	240	239
9	248	223	208	236	149	175	252	254	254	248	239	238
10	248	204	238	236	149	176	252	254	256	251	236	240
11	248	200	236	236	149	134	253	253	257	251	238	239
12	240	197	224	244	148	152	251	252	258	248	239	238
13	236	219	234	244	148	246	251	252	257	247	240	238
14	235	193	213	236	147	252	252	252	254	248	240	235
15	235	201	213	229	148	252	253	252	236	248	239	235
16	236	218	239	236	147	252	253	252	230	248	239	236
17	236	192	239	240	147	250	254	253	250	248	238	235
18	236	206	235	239	147	168	256	253	254	244	236	235
19	238	218	211	240	147	99	256	253	247	246	238	236
20	248	233	232	233	147	251	254	252	238	245	239	236
21	235	224	233	223	165	248	254	256	238	246	241	238
22	236	233	234	195	175	248	253	258	236	248	241	238
23	236	232	228	177	175	248	252	258	236	247	240	238
24	238	207	218	163	175	248	251	258	240	247	238	238
25	238	228	239	152	175	247	250	258	244	250	238	238
26	238	220	234	152	175	247	250	258	248	250	240	239
27	238	240	216	152	175	247	250	258	250	248	239	239
28	81	238	236	152	176	246	248	257	250	246	241	239
29	0	223	226	151	------	246	247	256	245	246	241	239
30	0	239	227	150	------	246	240	256	241	247	239	240
31	0	------	236	150	------	246	------	257	------	248	238	------
TOTAL	6,620	6,529	6,870	6,392	4,361	6,525	7,550	7,900	7,469	7,692	7,406	7,137
MEAN	214	218	222	206	156	210	252	255	249	248	239	238
MAX	252	240	239	244	176	252	256	258	258	254	241	240
MIN	0	110	102	118	147	99	240	246	230	244	236	235
AC-FT	13,130	12,950	13,630	12,680	8,650	12,940	14,980	15,670	14,810	15,260	14,690	14,160
(†)	12,070	13,110	14,030	13,150	8,670	12,760	14,600	14,110	13,060	12,670	12,670	12,300

CAL YR 1968 TOTAL 88,742 MEAN 242 MAX 266 MIN 0 AC-FT 176,000
WTR YR 1969 TOTAL 82,451 MEAN 226 MAX 258 MIN 0 AC-FT 163,500

† DIVERSION, IN ACRE-FEET, TO KELLY RIDGE POWERPLANT, FURNISHED BY OROVILLE-WYANDOTTE IRRIGATION DISTRICT.

DISCHARGF, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	247	153	227	232	181	222	5.7	248	250	248	258	264
2	246	188	229	232	181	208	58	248	248	248	264	267
3	246	174	230	232	180	206	174	247	250	250	264	266
4	246	188	230	232	192	206	254	248	250	250	266	263
5	246	202	232	232	208	208	246	247	247	250	266	263
6	245	229	230	230	208	209	246	247	244	250	267	261
7	245	232	230	232	208	209	247	247	244	248	267	263
8	244	234	230	232	208	209	254	247	242	247	266	259
9	244	234	230	232	208	211	261	246	245	247	264	261
10	244	233	230	232	210	211	261	245	246	247	266	261
11	244	232	230	230	210	210	259	242	247	246	266	261
12	244	232	232	230	195	224	258	244	247	242	267	259
13	75	232	233	232	176	238	257	246	246	241	267	258
14	0	232	232	203	176	238	259	246	245	236	267	258
15	62	232	232	190	172	238	258	246	246	243	267	258
16	178	232	233	192	170	238	257	246	248	253	264	257
17	233	232	233	174	174	238	258	246	247	253	263	258
18	247	232	233	174	174	239	259	246	247	253	263	258
19	247	232	233	172	195	239	259	246	246	253	264	257
20	247	232	233	172	228	239	261	245	246	253	262	256
21	247	232	233	174	239	239	261	246	246	238	263	256
22	248	230	230	172	239	239	261	245	246	227	261	258
23	248	230	232	172	239	221	262	245	246	228	259	258
24	248	230	232	169	239	203	262	245	248	228	261	258
25	248	230	230	167	239	203	263	245	246	228	262	258
26	247	230	230	167	239	204	261	247	246	229	262	257
27	246	230	230	168	239	204	261	248	245	252	262	257
28	246	228	230	177	239	204	261	248	244	253	262	254
29	246	226	230	182	------	204	261	250	244	253	263	254
30	245	227	230	181	------	74	261	250	246	256	263	253
31	201	------	232	181	------	3.4	------	250	------	254	263	------
TOTAL	6,900	6,680	7,161	6,197	5,766	6,438.4	7,205.7	7,642	7,388	7,604	8,179	7,771
MEAN	223	223	231	200	206	208	240	247	246	245	264	259
MAX	248	234	233	232	239	239	263	250	250	256	267	267
MIN	0	153	227	167	170	3.4	5.7	242	242	227	258	253
AC-FT	13,690	13,250	14,200	12,290	11,440	12,770	14,290	15,160	14,650	15,080	16,220	15,410
(†)	11,900	12,810	14,060	12,130	11,240	13,040	12,100	13,720	12,900	13,020	12,900	12,500

CAL YR 1969 TOTAL 83,173.0 MEAN 228 MAX 258 MIN 0 AC-FT 165,000
WTR YR 1970 TOTAL 84,932.1 MEAN 233 MAX 267 MIN 0 AC-FT 168,500

† DIVERSION, IN ACRE-FEET, TO KELLY RIDGE POWERPLANT, FURNISHED BY OROVILLE-WYANDOTTE IRRIGATION DISTRICT.

11396330 BANGOR CANAL BELOW MINERS RANCH RESERVOIR, NEAR OROVILLE, CALIF.

LOCATION.--Lat 39°30'15", long 121°27'16", in NE¼SW¼ sec.18, T.19 N., R.5 E., Butte County, on left bank 400 ft downstream from outlet at Miners Ranch Dam and 5 miles east or Oroville.

PERIOD OF RECORD.--January 1963 to September 1970.

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is 815 ft (from topographic map).

AVERAGE DISCHARGE.--7 years, 15.4 cfs (11,160 acre-ft per year).

EXTREMES.--Period of record: Maximum daily discharge, 65 cfs Aug. 17-20, 1963; no flow for several days in 1965, 1969.

REMARKS.--Records excellent. Flow regulated by Miners Ranch Reservoir (capacity, 912 acre-ft). Canal completed in November 1962. Water is used for irrigation. See schematic diagram of South Fork Feather River basin elsewhere in this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	6.4	0	.10	.30	.20	4.3	23	26	30	27	28
2	28	0	0	.10	.30	.20	6.9	23	26	26	28	28
3	29	0	0	.10	.30	.20	6.6	25	26	25	27	28
4	29	.80	0	.10	.30	.20	6.6	26	26	26	25	28
5	29	2.5	0	.10	.30	.20	6.9	26	26	27	27	28
6	29	2.1	0	.10	.30	.20	6.9	26	26	27	29	28
7	29	1.9	0	.10	.30	.20	7.2	26	26	27	29	28
8	29	1.9	0	.10	.30	.20	8.6	26	26	27	29	28
9	29	2.3	0	.10	.30	.20	9.8	26	28	27	29	28
10	29	2.3	0	.40	.30	.20	9.8	26	28	28	29	28
11	29	2.3	0	.60	.30	.20	9.8	26	28	28	29	28
12	29	2.7	0	.60	.30	.20	9.8	24	29	29	29	28
13	28	3.2	0	.60	.30	.20	9.8	23	29	29	29	28
14	26	3.0	0	.60	.30	.20	9.5	22	29	29	29	28
15	26	3.0	0	.60	.20	.20	9.2	22	29	29	29	29
16	26	3.0	0	.40	.20	.20	9.2	22	30	29	29	29
17	26	3.0	0	.40	.20	.20	9.2	23	30	29	28	29
18	26	2.5	0	.30	.20	.20	9.2	24	31	29	28	29
19	21	2.3	0	.30	.20	.20	11	24	30	29	28	29
20	19	2.1	0	.30	.20	.20	13	23	30	29	28	29
21	19	2.1	.10	.30	.20	.20	13	25	29	29	28	29
22	19	2.1	.10	.30	.20	.20	15	25	29	29	28	28
23	18	2.1	.10	.30	.20	.20	15	25	28	29	28	28
24	18	2.1	.10	.30	.20	.20	15	25	27	29	28	29
25	18	2.1	.10	.30	.20	.20	16	25	27	29	28	29
26	18	2.1	.10	.30	.20	.20	18	25	28	28	28	28
27	18	2.1	.10	.30	.20	.20	20	25	28	28	28	28
28	18	2.1	.10	.30	.20	.20	23	26	29	28	28	28
29	17	2.1	.10	.30	------	.20	23	26	29	27	28	28
30	17	.90	.10	.30	------	.20	23	26	30	27	28	29
31	17	------	.10	.30	------	.20	------	26	------	27	28	------
TOTAL	741	67.10	1.10	9.30	7.00	6.20	354.3	765	843	869	873	850
MEAN	23.9	2.24	.036	.30	.25	.20	11.8	24.7	28.1	28.0	28.2	28.3
MAX	29	6.4	.10	.60	.30	.20	23	26	31	30	29	29
MIN	17	0	0	.10	.20	.20	4.3	22	26	25	25	28
AC-FT	1,470	133	2.2	18	14	12	703	1,520	1,670	1,720	1,730	1,690

CAL YR 1965 TOTAL 4,884.60 MEAN 13.4 MAX 30 MIN 0 AC-FT 9,690
WTR YR 1966 TOTAL 5,386.00 MEAN 14.8 MAX 31 MIN 0 AC-FT 10,680

11396330 BANGOR CANAL BELOW MINERS RANCH RESERVOIR, NEAR OROVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	11	4.0	4.4	4.4	4.4	4.4	4.2	28	28	30	31
2	29	2.6	4.0	4.4	4.4	4.4	4.4	4.0	28	28	30	30
3	29	2.6	3.7	4.4	4.4	4.4	4.4	4.0	28	27	30	30
4	29	2.6	3.3	4.4	4.4	4.4	4.4	4.2	28	28	30	30
5	29	2.6	2.9	4.4	4.4	4.4	4.4	4.2	19	29	30	30
6	29	2.6	3.4	4.4	4.4	4.4	4.4	4.2	15	30	30	30
7	29	2.6	4.4	4.4	4.4	4.4	4.4	4.2	16	30	30	30
8	29	2.6	4.2	4.4	4.4	4.4	4.4	4.2	16	30	30	30
9	29	2.6	4.2	4.4	4.4	4.2	4.4	4.2	16	30	30	30
10	29	2.6	4.4	4.4	4.4	4.2	4.4	4.2	16	30	31	30
11	29	2.6	4.4	4.4	4.4	4.2	4.4	4.0	16	30	31	30
12	28	2.6	4.4	4.4	4.4	4.4	4.2	4.0	24	30	31	30
13	28	2.6	4.4	4.4	4.4	4.4	4.0	4.0	29	31	31	30
14	29	2.6	4.4	4.4	4.4	4.4	4.0	4.0	29	31	31	30
15	29	2.4	4.4	4.4	4.6	4.4	4.0	4.0	29	31	31	30
16	30	2.4	4.2	4.4	4.6	4.4	4.0	4.0	29	31	31	30
17	29	2.4	4.4	4.4	4.9	4.4	4.0	4.0	29	31	31	30
18	29	3.5	4.4	4.4	4.9	4.4	4.0	6.4	29	31	31	30
19	26	4.0	4.4	4.4	4.9	4.2	4.0	8.1	29	31	31	30
20	25	4.2	4.4	4.2	4.6	4.2	4.0	8.4	29	31	31	30
21	25	4.2	4.4	3.3	4.6	4.2	4.0	8.4	29	31	31	30
22	25	4.0	4.4	3.7	4.6	4.2	4.2	15	29	31	31	30
23	25	4.0	4.4	4.4	4.6	4.2	4.2	18	28	31	31	30
24	25	4.0	4.4	4.4	4.6	4.2	4.2	18	28	30	31	30
25	25	4.0	4.4	4.4	4.6	4.2	4.2	18	28	30	31	30
26	25	4.2	4.4	4.4	4.6	4.2	4.2	21	28	30	31	30
27	24	4.2	4.4	4.4	4.6	4.2	4.2	23	28	30	31	30
28	24	4.0	4.4	4.4	4.6	4.2	4.2	23	28	31	31	30
29	24	3.7	4.4	4.4	------	4.2	4.2	23	28	31	31	30
30	24	3.7	4.4	4.4	------	4.2	4.2	26	28	31	31	30
31	24	------	4.4	4.4	------	4.4	------	28	------	30	31	------
TOTAL	842	103.7	130.7	134.4	126.9	133.4	126.4	313.9	764	934	952	901
MEAN	27.2	3.46	4.22	4.34	4.53	4.30	4.21	10.1	25.5	30.1	30.7	30.0
MAX	30	11	4.4	4.4	4.9	4.4	4.4	28	29	31	31	31
MIN	24	2.4	2.9	3.3	4.4	4.2	4.0	4.0	15	27	30	30
AC-FT	1,670	206	259	267	252	265	251	623	1,520	1,850	1,890	1,790

CAL YR 1966 TOTAL 5,653.20 MEAN 15.5 MAX 31 MIN .10 AC-FT 11,210
WTR YR 1967 TOTAL 5,462.40 MEAN 15.0 MAX 31 MIN 2.4 AC-FT 10,830

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	9.7	2.4	2.2	1.2	.92	1.2	23	23	28	28	28
2	30	2.2	2.4	2.2	1.2	.92	1.2	23	23	28	28	28
3	30	2.2	2.2	2.2	1.0	.92	1.2	23	23	28	28	28
4	26	2.2	2.2	2.2	1.0	.92	1.2	23	25	28	28	28
5	23	2.2	2.2	2.2	1.0	.80	4.6	23	25	28	28	28
6	23	2.2	2.0	2.2	1.0	.80	7.2	23	25	28	28	28
7	23	2.2	2.0	2.2	.92	.80	7.2	23	25	28	28	28
8	23	2.4	2.0	2.2	.92	.80	7.2	23	25	28	28	28
9	23	2.4	2.0	2.2	1.0	.92	9.9	23	25	28	28	28
10	23	2.4	2.0	2.0	1.0	.92	12	23	28	28	28	28
11	23	2.4	2.0	1.7	1.2	.92	14	23	30	28	28	28
12	23	2.6	2.0	1.7	1.2	.92	16	23	30	28	28	28
13	23	2.6	2.0	1.7	1.2	1.0	16	23	28	28	28	29
14	22	2.6	2.0	1.7	1.2	1.0	16	23	27	28	28	29
15	21	2.6	2.0	1.8	1.2	1.0	16	23	27	28	28	29
16	21	2.6	2.0	1.8	1.4	1.2	16	23	27	28	28	29
17	20	2.6	2.0	1.8	1.4	1.2	17	23	27	28	28	29
18	19	2.6	2.0	1.7	1.4	1.0	17	23	28	28	28	29
19	19	2.6	2.0	1.5	1.4	1.0	17	23	28	28	28	29
20	19	2.6	2.2	1.5	1.4	.92	17	23	27	28	28	29
21	19	2.4	2.2	1.5	1.2	.92	17	23	27	28	28	29
22	21	2.2	2.0	1.5	1.2	.92	19	23	27	28	28	29
23	23	2.2	2.0	1.5	1.0	1.0	21	23	27	28	28	29
24	23	2.2	2.0	1.5	1.0	1.0	21	23	28	28	28	29
25	22	2.2	2.0	1.5	1.0	1.0	21	23	28	28	28	29
26	21	2.2	2.0	1.5	.92	1.2	20	23	28	28	28	29
27	21	2.2	2.0	1.5	.92	1.2	20	23	28	28	28	29
28	21	2.4	2.0	1.5	.92	1.2	20	23	28	28	28	29
29	21	2.4	2.0	1.5	.92	1.2	21	23	28	28	28	30
30	21	2.4	2.0	1.4	------	1.2	22	23	29	28	28	30
31	21	------	2.2	1.2	------	1.2	------	23	------	28	28	------
TOTAL	698	78.7	64.0	54.8	32.32	30.92	416.9	713	804	868	868	860
MEAN	22.5	2.62	2.06	1.77	1.11	1.00	13.9	23.0	26.8	28.0	28.0	28.7
MAX	30	9.7	2.4	2.2	1.4	1.2	22	23	30	28	28	30
MIN	19	2.2	2.0	1.2	.92	.80	1.2	23	23	28	28	28
AC-FT	1,380	156	127	109	64	61	827	1,410	1,590	1,720	1,720	1,710

CAL YR 1967 TOTAL 5,226.70 MEAN 14.3 MAX 31 MIN 2.0 AC-FT 10,370
WTR YR 1968 TOTAL 5,488.64 MEAN 15.0 MAX 30 MIN .80 AC-FT 10,890

11396330 BANGOR CANAL BELOW MINERS RANCH RESERVOIR, NEAR OROVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	0	3.5	2.0	1.8	2.4	2.9	14	27	28	32	29
2	30	0	3.5	2.0	1.7	2.4	2.6	14	26	27	31	30
3	30	0	3.5	2.0	1.5	2.4	2.6	16	26	27	31	30
4	30	0	3.5	1.8	1.5	2.4	2.6	18	27	27	31	30
5	30	0	3.5	1.8	1.5	2.4	2.6	18	29	27	31	30
6	30	0	3.5	1.8	1.7	2.2	2.6	18	31	27	31	30
7	30	0	3.3	1.8	1.8	2.2	2.6	18	31	27	31	30
8	30	0	3.5	1.8	1.8	2.2	2.6	18	31	28	31	30
9	30	0	3.5	1.8	1.8	2.2	2.6	18	31	29	31	30
10	27	0	3.5	1.8	2.0	2.2	2.6	18	30	29	31	30
11	27	0	3.5	1.8	2.0	2.4	2.6	18	30	29	31	30
12	27	0	3.5	1.8	2.2	2.4	2.4	21	30	29	31	30
13	27	0	3.3	2.0	2.2	2.4	2.4	24	28	30	31	30
14	27	0	3.3	1.4	2.2	2.4	2.4	24	26	30	31	30
15	13	0	3.1	1.2	2.2	2.4	2.6	24	26	30	31	30
16	0	0	3.1	1.4	2.2	2.6	2.6	24	26	30	31	30
17	0	0	2.9	1.2	2.2	2.6	2.6	24	26	30	31	30
18	0	2.0	2.9	1.4	2.2	2.6	2.6	24	25	30	30	30
19	0	3.5	2.4	1.5	2.2	2.9	2.6	24	25	30	30	30
20	0	3.5	2.2	1.7	2.2	2.9	2.6	24	26	30	30	30
21	0	3.5	2.2	1.8	2.2	2.9	2.6	24	25	31	30	30
22	0	3.5	2.2	1.5	2.2	2.9	9.2	24	25	31	30	30
23	0	3.5	2.2	1.4	2.2	2.9	14	24	25	31	30	30
24	0	3.5	2.2	1.4	2.2	2.9	14	24	25	31	30	30
25	0	3.5	2.0	1.7	2.2	2.6	14	24	26	31	30	30
26	0	3.5	2.0	1.8	2.2	2.6	14	24	27	31	30	30
27	0	3.5	2.0	1.8	2.2	2.6	14	24	27	31	30	30
28	0	3.5	2.0	1.8	2.2	2.6	14	24	27	31	30	30
29	0	3.5	2.0	1.8	------	2.9	14	25	28	32	30	30
30	0	3.5	2.2	1.8	------	2.9	14	25	28	32	29	31
31	0	------	2.0	1.8	------	2.9	------	25	------	32	29	------
TOTAL	418	44.0	88.0	52.6	56.5	79.3	175.5	668	820	918	946	900
MEAN	13.5	1.47	2.84	1.70	2.02	2.56	5.85	21.5	27.3	29.6	30.5	30.0
MAX	30	3.5	3.5	2.0	2.2	2.9	14	25	31	32	32	31
MIN	0	0	2.0	1.2	1.5	2.2	2.4	14	25	27	29	29
AC-FT	829	87	175	104	112	157	348	1,320	1,630	1,820	1,880	1,790

CAL YR 1968 TOTAL 5,197.94 MEAN 14.2 MAX 30 MIN 0 AC-FT 10,310
WTR YR 1969 TOTAL 5,165.90 MEAN 14.2 MAX 32 MIN 0 AC-FT 10,250

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	14	3.7	4.0	2.4	8.2	3.1	23	29	29	29	29
2	29	14	3.7	4.0	2.2	4.4	8.1	23	29	29	29	29
3	29	14	3.7	4.0	2.2	4.4	13	23	30	29	29	29
4	29	14	3.7	4.0	2.2	4.6	16	23	30	29	29	29
5	29	14	3.7	3.7	2.8	4.6	16	27	30	29	29	30
6	29	14	3.7	3.3	3.7	4.4	16	28	30	29	29	30
7	29	8.2	3.7	3.1	3.7	4.4	16	28	30	29	29	30
8	29	4.4	3.7	3.1	3.7	4.6	17	28	30	29	29	30
9	29	4.2	3.7	3.3	3.7	4.9	20	28	30	29	29	30
10	29	4.2	3.7	2.9	3.7	4.9	23	28	30	29	29	30
11	29	4.0	3.7	2.6	3.7	4.6	23	28	30	29	29	30
12	29	4.0	3.7	3.1	4.0	4.6	23	28	30	29	30	30
13	29	3.7	3.7	2.6	7.1	4.6	23	28	30	30	30	30
14	28	3.7	3.7	4.2	4.9	4.9	23	28	30	30	30	30
15	19	4.0	3.7	2.0	4.4	4.4	23	28	30	30	30	30
16	13	4.0	3.7	5.9	5.1	4.4	23	28	30	30	30	30
17	14	3.7	3.7	3.7	4.6	4.4	23	28	30	30	30	30
18	14	3.7	3.7	3.1	4.6	4.4	23	29	30	30	30	30
19	14	4.0	3.7	3.7	4.4	4.4	23	29	30	30	30	30
20	14	3.7	3.7	2.9	4.2	4.4	23	29	30	30	30	30
21	14	3.7	3.7	8.1	4.2	4.4	23	29	30	30	30	30
22	14	4.0	3.7	2.6	4.2	4.4	23	29	30	30	30	29
23	14	3.7	3.5	3.3	4.2	4.4	23	29	30	30	30	27
24	14	3.7	3.1	2.9	4.2	4.4	23	29	30	30	30	27
25	14	4.0	2.4	2.0	4.2	4.4	23	29	30	30	30	27
26	14	3.7	2.2	2.2	4.2	4.4	23	29	30	30	30	27
27	14	3.7	1.8	3.8	4.2	4.4	23	29	29	30	30	27
28	14	3.7	1.8	2.6	4.4	4.4	23	29	29	30	30	27
29	14	3.7	2.0	2.4	------	4.4	23	29	29	30	30	27
30	14	3.7	3.1	2.4	------	4.2	23	29	29	29	29	27
31	14	------	4.4	2.4	------	3.3	------	29	------	29	29	------
TOTAL	647	181.1	105.7	103.9	111.1	141.6	608.2	861	894	916	917	871
MEAN	20.9	6.04	3.41	3.35	3.97	4.57	20.3	27.8	29.8	29.5	29.6	29.0
MAX	29	14	4.4	8.1	7.1	8.2	23	29	30	30	30	30
MIN	13	3.7	1.8	2.0	2.2	3.3	3.1	23	29	29	29	27
AC-FT	1,280	359	210	206	220	281	1,210	1,710	1,770	1,820	1,820	1,730

CAL YR 1969 TOTAL 5,549.7 MEAN 15.2 MAX 32 MIN 1.2 AC-FT 11,010
WTR YR 1970 TOTAL 6,357.6 MEAN 17.4 MAX 30 MIN 1.8 AC-FT 12,610

11396350 SOUTH FORK FEATHER RIVER AT PONDEROSA DAM, CALIF.
(Formerly published as South Fork Feather River below Ponderosa Dam)

LOCATION.--Lat 39°32'52", long 121°18'11", in NW¼SE¼ sec.33, T.20 N., R.6 E., Butte County, at entrance to Miners Ranch Canal on left end of Ponderosa Dam, 2,800 ft upstream from Sucker Run and 2.5 miles northwest of Forbestown. Prior to Oct. 1, 1967, at site 1,800 ft downstream.

DRAINAGE AREA.--108 sq mi.

PERIOD OF RECORD.--July 1962 to September 1970. Prior to October 1965, published as "below Ponderosa Dam."

GAGE.--Water-stage recorder, high-level sluice gate, and concrete spillway of Ponderosa Dam. Datum of gage is at mean sea level (levels by Oroville-Wyandotte Irrigation District). Prior to Oct. 1, 1967, at site 1,800 ft downstream at different datum.

AVERAGE DISCHARGE.--8 years, 480 cfs (347,800 acre-ft per year), adjusted for diversion to Miners Ranch Canal.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 5, 1966	660	4.75	Apr. 3, 4, 1966	.10
1967	Jan. 21, 1967	3,320	7.30	Many days	.20
1968	Feb. 20, 1968	1,120	955.75	Long periods	0
1969	Jan. 26, 1969	6,760	960.30	do.	0
1970	Jan. 22, 1970	9,840	962.19	do.	0

Period of record: Maximum discharge, 11,000 cfs Dec. 22, 1964 (gage height, 11.52 ft in gage well, 12.7 ft outside, from floodmarks, site and datum then in use); no flow for several months in 1968-70.

REMARKS.--Records good. Records are combined flow through sluice gate and flow over spillway. Flow regulated by several reservoirs and diversions. Water is imported from North Yuba River basin through Slate Creek tunnel. Miners Ranch Canal (see station 11396310) diverts at Ponderosa Dam for power development and irrigation; diversion began in October 1962. See schematic diagram of South Fork Feather River basin elsewhere in this report. Water-quality records for the water years 1966-67 are published in reports of the Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	140	.30	184	304	.50	.30	.20	359	.40	.40	.40	.60
2	140	.30	187	241	.40	.30	.20	363	.30	.40	.30	.60
3	140	.30	187	235	.30	.30	.10	325	.30	.40	.20	.60
4	140	.30	187	358	.30	.30	.10	359	.30	.40	.30	.60
5	140	.20	184	654	.40	.30	41	355	.30	.30	.30	.60
6	138	.20	159	515	.30	.30	220	355	.30	.30	.30	.40
7	138	.20	175	367	.30	.30	220	355	.30	.40	.30	.40
8	138	.30	181	318	.30	.30	229	359	.30	.40	.30	.50
9	138	.20	184	290	.30	.30	244	359	.30	.40	.40	.50
10	138	55	199	259	.20	.30	335	367	.30	.40	.40	.60
11	138	104	190	185	.30	.30	321	363	.30	.40	.40	.50
12	138	114	202	220	.30	.30	355	367	.30	.40	.40	.40
13	140	118	196	232	.30	.30	332	367	.40	.30	.40	.40
14	138	120	214	121	.30	.20	304	363	.40	.30	.40	.40
15	138	118	169	.40	.30	.20	279	363	.40	.30	.40	.40
16	138	112	174	.40	.30	.20	262	335	.40	.40	.40	.50
17	96	110	214	.30	.30	.20	256	276	.40	.40	.40	.50
18	.40	112	187	.30	.30	.20	293	268	.40	.40	.50	.50
19	.40	223	184	.30	.60	.20	250	241	.40	.40	.40	.50
20	.30	238	184	.30	.40	.20	247	220	.40	.40	.40	.60
21	.20	214	181	.30	.40	.20	238	190	.40	.40	.40	.60
22	.20	214	184	.30	.30	.20	235	193	.40	.40	.40	.60
23	.20	226	187	.30	.30	.20	223	92	.40	.40	.50	.60
24	.20	318	217	.30	.30	.20	217	.40	.40	.40	.50	.60
25	.20	272	272	.30	.30	.20	208	.40	.40	.40	.50	.60
26	.20	238	223	.30	.30	.20	205	.40	.40	.40	.50	.60
27	.20	214	205	.30	.30	.20	238	.40	.40	.40	.50	.40
28	.20	205	238	.30	.30	.20	355	.40	.40	.40	.60	.50
29	.20	196	351	.90	------	.20	363	.30	.40	.30	.50	.60
30	.30	190	304	.90	------	.20	363	.30	.40	.30	.50	.60
31	.30	------	293	.40	------	.20	------	.40	------	.30	.50	------
TOTAL	2,319.50	3,713.30	6,396	4,305.60	9.20	7.50	6,833.60	7,197.00	10.90	11.60	12.70	15.80
MEAN	74.8	124	206	139	.33	.24	228	232	.36	.37	.41	.53
MAX	140	318	351	654	.60	.30	363	367	.40	.40	.60	.60
MIN	.20	.20	159	.30	.20	.20	.10	.30	.30	.30	.20	.40
AC-FT	4,600	7,370	12,690	8,540	18	15	13,550	14,280	22	23	25	31
MEAN†	300	335	434	356	165	178	474	496	259	266	235	261
AC-FT†	18,470	19,950	26,700	21,860	9,170	10,960	28,180	30,520	15,420	16,350	14,440	15,510

CAL YR 1965 TOTAL 102,207.90 MEAN 280 MAX 3,780 MIN .20 AC-FT 202,700 MEAN† 504 AC-FT† 365,200
WTR YR 1966 TOTAL 30,832.70 MEAN 84.5 MAX 654 MIN .10 AC-FT 61,160 MEAN† 314 AC-FT† 227,500

† ADJUSTED FOR DIVERSION TO MINERS RANCH CANAL.

11396350 SOUTH FORK FEATHER RIVER AT PONDEROSA DAM, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	.20	407	321	1,070	363	537	531	848	296	.30	.30
2	.40	.20	582	321	806	363	515	520	764	293	.30	.30
3	.40	.20	642	321	648	359	500	526	708	186	.30	.30
4	.60	.20	310	318	559	359	495	526	726	.50	.30	.30
5	.50	.20	808	318	515	351	526	532	738	.40	.30	.30
6	.40	.70	802	314	485	335	820	500	690	.40	.30	.30
7	.40	.30	624	307	456	351	785	526	618	.40	.30	.30
8	.50	.20	500	296	442	355	654	738	475	.40	.30	.30
9	.60	.20	442	307	434	359	588	834	371	.40	.30	.30
10	.40	.20	429	310	420	375	582	883	371	.30	.30	.30
11	.40	.20	398	304	411	465	576	834	351	.30	.30	.30
12	.30	.20	380	228	402	465	548	820	371	.30	.30	.30
13	.30	.20	371	307	411	480	537	702	367	.30	.30	.30
14	.30	.20	375	307	393	465	554	537	343	.30	.30	.30
15	.30	.50	359	300	388	475	548	510	335	.30	.30	.30
16	.30	1.0	351	174	411	1,320	532	490	339	.30	.30	.30
17	.30	.20	343	.4	456	1,480	559	475	424	.30	.30	.30
18	.30	.20	343	.3	411	1,110	600	465	438	.30	.20	.30
19	.30	.80	335	.3	406	890	600	456	442	.30	.30	.30
20	.30	1.0	335	32	402	738	594	447	438	.30	.30	.30
21	.30	.60	328	1,750	398	630	582	447	505	.30	.30	.30
22	.30	.30	328	1,260	393	559	559	420	465	.30	.20	.30
23	.30	.20	332	474	388	912	570	533	335	.30	.30	.30
24	.30	.20	335	618	384	1,010	600	1,460	310	.30	.30	.30
25	.30	.20	332	570	402	890	588	1,810	307	.20	.30	.30
26	.20	.20	335	526	388	792	570	1,610	300	.30	.30	.30
27	.30	.20	324	537	363	684	588	1,250	293	.30	.30	.30
28	.40	18	321	732	363	544	570	1,040	272	.30	.30	.30
29	.30	489	318	1,610	------	642	554	962	250	.30	.30	.30
30	.30	398	321	1,230	------	526	554	906	279	.30	.30	.30
31	.30	------	318	1,630	------	554	------	848	------	.30	.30	------
TOTAL	11.10	914.00	12.728	15,723.0	13,005	19,201	17,385	23,138	13,473	784.00	9.10	9.00
MEAN	.36	30.5	411	507	464	619	580	746	449	25.3	.29	.30
MAX	.60	489	808	1,750	1,070	1,480	820	1,810	848	296	.30	.30
MIN	.20	.20	310	.30	363	335	495	420	250	.20	.20	.30
AC-FT	22	1,810	25.250	31,190	25,800	38,090	34,480	45,890	26,720	1,560	18	18
MEAN†	258	231	626	735	696	849	810	950	718	293	269	266
AC-FT†	15,840	13,770	38,470	45,190	38,650	52,220	48,180	58,390	42,740	18,030	16,570	15,840

CAL YR 1966 TOTAL 32,057.00 MEAN 87.8 MAX 808 MIN .10 AC-FT 63,580 MEAN† 318 AC-FT† 230,500
WTR YR 1967 TOTAL 116,380.20 MEAN 319 MAX 1,810 MIN .20 AC-FT 230,800 MEAN† 558 AC-FT† 403,900

† ADJUSTED FOR DIVERSION TO MINERS RANCH CANAL.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	177	285	0	232	410	383					
2	100	136	290	0	472	394	394					
3	100	124	116	0	466	388	383					
4	100	129	305	0	454	388	372					
5	0	116	410	0	444	388	366					
6	100	109	325	0	383	388	361					
7	100	107	345	0	400	388	356					
8	100	128	330	0	383	410	303					
9	100	136	315	0	388	410	17					
10	200	136	285	0	394	394	0					
11	200	116	265	0	356	361	0					
12	200	109	241	0	340	388	0					
13	200	111	232	0	345	466	0					
14	200	128	232	0	335	366	0					
15	200	92	146	181	320	241	0					
16	400	265	232	400	320	89	0					
17	400	275	246	366	544	400	0					
18	400	290	232	340	526	484	0					
19	400	388	8.3	271	496	460	0					
20	400	330	0	28	962	449	0					
21	250	305	0	17	724	427	0					
22	250	285	0	14	586	410	0					
23	0	295	0	13	484	422	0					
24	0	285	0	6.1	460	416	0					
25	0	280	0	0	466	405	0					
26	0	270	0	0	444	405	0					
27	0	275	3.3	0	432	400	0					
28	0	280	33	0	427	388	0					
29	0	315	0	39	422	388	0					
30	3.9	315	0	206	------	383	0					
31	117	------	0	76	------	383	------		------			------
TOTAL	4.520.9	6.307	4.876.6	1,957.1	13,005	12,089	2.935	0	0	0	0	0
MEAN	146	210	157	63.1	448	390	97.8	0	0	0	0	0
MAX	400	388	410	400	962	484	394	0	0	0	0	0
MIN	0	92	0	0	232	89	0	0	0	0	0	0
AC-FT	8,970	12,510	9,670	3,880	25,800	23,980	5,820	0	0	0	0	0
MEAN†	312	432	384	309	707	643	348	240	254	254	253	249
AC-FT†	19,160	25,700	23,610	19,020	40,680	39,510	20,720	14,760	15,120	15,620	15,530	14,830

CAL YR 1967 TOTAL 118,431.60 MEAN 324 MAX 1,810 MIN 0 AC-FT 234,900 MEAN† 558 AC-FT† 404,300
WTR YR 1968 TOTAL 45,690.60 MEAN 125 MAX 962 MIN 0 AC-FT 90,630 MEAN† 364 AC-FT† 264,300

† ADJUSTED FOR DIVERSION TO MINERS RANCH CANAL.

11396350 SOUTH FORK FEATHER RIVER AT PONDEROSA DAM, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	116	910	808	1,250	449	340			0
2			0	226	766	865	1,230	416	335			0
3			0	244	678	895	1,200	410	345			0
4			0	120	704	645	1,140	410	350			0
5			0	95	752	632	1,330	405	325			0
6			0	146	808	619	1,280	383	325			0
7			0	197	752	612	1,180	405	320			0
8			0	323	717	593	1,140	422	320			0
9			0	208	836	626	1,110	520	325			0
10			0	217	858	787	1,100	532	40			0
11			0	191	932	815	1,070	704	310			0
12			0	201	1,150	794	932	794	310			0
13			0	1,050	1,020	690	925	843	315			0
14			0	945	940	684	918	822	45			0
15			0	547	1,370	678	850	724	0			0
16			8.2	492	1,290	671	484	664	0			97
17			89	326	1,020	690	593	645	294			165
18			113	147	752	787	496	664	335			165
19			100	679	704	880	502	658	314			168
20			107	3,340	738	690	508	416	8.3			169
21			108	4,630	697	724	520	394	0			171
22			107	2,510	658	704	490	361	0			169
23			106	1,140	684	697	520	361	0			170
24			102	897	697	697	544	361	0			162
25			125	1,580	704	752	526	361	0			170
26			109	5,590	678	1,030	520	350	0			179
27			101	3,810	658	1,040	496	350	0			176
28			109	2,580	773	1,110	472	361	0			171
29			104	1,810	------	1,120	472	345	0			171
30			104	664	------	1,150	466	340	0			178
31		------	109	1,040	------	1,210	------	340	------			------
TOTAL	0	0	1,601.2	36,061	23,246	24,695	24,264	15,210	4,956.3	0	0	2,481
MEAN	0	0	51.7	1,163	830	797	809	491	165	0	0	82.7
MAX	0	0	125	5,590	1,370	1,210	1,330	843	350	0	0	179
MIN	0	0	0	95	658	593	466	340	0	0	0	0
AC-FT	0	0	3,180	71,530	46,110	48,980	48,130	30,170	9,830	0	0	4,920
MEAN†	214	218	273	1,369	986	1,007	1,061	745	414	248	239	321
AC-FT†	13,130	12,950	16,810	84,170	54,760	61,920	63,110	45,840	24,640	15,250	14,690	19,080

CAL YR 1968 TOTAL 31,587.30 MEAN 86.5 MAX 962 MIN 0 AC-FT 62,650 MEAN† 329 AC-FT† 238,700
WTR YR 1969 TOTAL 132,514.50 MEAN 363 MAX 5,590 MIN 0 AC-FT 262,800 MEAN† 589 AC-FT† 426,400

† ADJUSTED FOR DIVERSION TO MINERS RANCH CANAL.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	180	103	142	330	1,020	1,010	42				0	108
2	177	116	141	325	888	801	0				0	108
3	176	112	141	330	427	645	0				0	104
4	175	114	139	330	487	625	0				0	108
5	177	121	141	330	664	593	0				0	110
6	177	133	141	330	697	612	0				0	100
7	177	136	140	330	658	593	0				0	104
8	170	140	140	335	619	710	0				0	104
9	173	142	141	475	568	645	0				0	104
10	170	138	144	773	520	645	0				0	104
11	168	136	140	580	496	632	0				0	47
12	165	140	158	568	550	586	0				0	0
13	488	139	449	980	982	556	0				61	0
14	592	140	403	2,830	1,140	526	0				107	0
15	533	142	394	1,870	925	520	0				108	0
16	378	142	408	3,930	902	501	0				99	0
17	176	140	363	4,080	1,230	484	0				97	0
18	168	143	305	3,680	858	478	0				100	0
19	164	141	460	2,980	652	466	0				103	0
20	162	143	586	2,900	544	466	0				106	0
21	162	142	1,020	5,640	526	454	0				108	0
22	167	136	580	8,380	508	427	0				107	0
23	176	139	613	6,100	484	466	0				104	0
24	173	140	1,310	7,790	449	484	0				105	0
25	165	143	697	4,740	416	454	0				107	0
26	158	141	520	3,080	466	332	0				108	0
27	154	138	388	3,560	428	25	0				106	0
28	158	141	350	2,500	526	27	0				108	44
29	158	140	340	1,880	------	28	0				109	60
30	155	142	320	1,480	------	89	0				106	0
31	120	------	330	1,190	------	126	------		------		104	------
TOTAL	6,492	4,063	11,544	74,626	18,630	15,006	42	0	0	0	1,953	1,205
MEAN	209	135	372	2,407	665	484	1.40	0	0	0	63.0	40.2
MAX	592	143	1,310	8,380	1,230	1,010	42	0	0	0	109	110
MIN	120	103	139	325	416	25	0	0	0	0	0	0
AC-FT	12,880	8,060	22,900	148,000	36,950	29,760	83	0	0	0	3,870	2,390
MEAN†	432	358	603	2,607	871	692	242	247	246	245	327	299
AC-FT†	26,570	21,310	37,100	160,300	48,390	42,530	14,370	15,160	14,650	15,080	20,090	17,800

CAL YR 1969 TOTAL 153,012.30 MEAN 419 MAX 5,590 MIN 0 AC-FT 303,500 MEAN† 647 AC-FT† 468,400
WTR YR 1970 TOTAL 133,561.00 MEAN 366 MAX 8,380 MIN 0 AC-FT 264,900 MEAN† 599 AC-FT† 433,400

† ADJUSTED FOR DIVERSION TO MINERS RANCH CANAL.

11396400 SUCKER RUN NEAR FORBESTOWN, CALIF.

LOCATION.--Lat 39°33'12", long 121°18'04", in NW¼NE¼ sec.33, T.20 N., R.6 E., Butte County, on left bank at upstream side of road bridge, 0.7 mile upstream from confluence with South Fork Feather River and 2.8 miles northwest of Forbestown.

DRAINAGE AREA.--18.7 sq mi.

PERIOD OF RECORD.--June 1965 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 960 ft (from topographic map).

AVERAGE DISCHARGE.--5 years, 25.9 cfs (18,760 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (300 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Jan. 4, 1966	2045	*372	3.97	Jan. 13, 1969	1100	670	4.67	Jan. 24, 1970	0015	*1,230	5.88
				Jan. 21, 1969	1145	*1,280	5.97	Jan. 27, 1970	0400	469	4.14
Dec. 2, 1966	2030	408	4.32	Jan. 26, 1969	0400	995	5.42	Feb. 13, 1970	2200	318	3.66
Dec. 5, 1966	0030	320	3.92	Feb. 12, 1969	0500	368	3.84	Feb. 16, 1970	2330	339	3.73
Jan. 21, 1967	-	*1,320	6.03	Feb. 15, 1969	1130	339	3.75	Mar. 1, 1970	1130	525	4.30
Jan. 29, 1967	0545	497	4.72								
Jan. 31, 1967	0600	347	4.04	Dec. 23, 1969	2300	494	4.34				
Mar. 16, 1967	1445	342	4.02	Jan. 14, 1970	-	890	5.20				
				Jan. 16, 1970	0800	564	4.41				
Feb. 19, 1968	2400	*369	3.83	Jan. 21, 1970	2230	744	4.86				

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Aug. 21, Sept. 6, 1966	.80	1969	Oct. 1-4, 1968	2.3
1967	Oct. 7, 1966	.40	1970	Sept.23, 25, 1970	3.2
1968	Oct. 1, 1967	1.7			

Period of record: Maximum discharge, 1,320 cfs Jan. 21, 1967 (gage height, 6.03 ft), from rating curve extended as explained below; minimum daily, 0.40 cfs Oct. 7, 1966.

Flood of Dec. 22, 1964, reached a stage of 7.4 ft, from floodmarks, discharge, 2,190 cfs (revised) from rating curve extended above 600 cfs on basis of computation of peak flow over rock control.

REMARKS.--Records good for flows above 15 cfs, poor below. No gage-height record Jan. 8-26, 1967. Undetermined amount of water diverted above station at times for use at lumber mill in Feather Falls. See schematic diagram of South Fork Feather River basin elsewhere in this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	4.6	9.2	24	25	20	15	11	6.4	2.7	2.2	2.0
2	5.0	4.5	8.7	20	24	19	15	10	6.0	3.1	1.9	1.6
3	4.8	4.9	8.5	19	22	18	14	9.9	6.0	3.6	1.4	1.6
4	4.4	4.7	8.2	139	33	18	13	9.7	5.6	3.5	1.3	1.4
5	4.2	5.0	8.5	205	43	18	12	9.4	5.6	3.3	1.4	1.4
6	4.8	5.3	8.9	96	46	19	12	10	5.8	3.0	1.8	.80
7	4.1	5.6	8.4	53	33	23	12	10	6.1	2.6	1.4	1.4
8	4.0	11	8.0	41	28	20	11	10	5.8	2.5	1.6	1.6
9	4.1	7.9	7.6	35	25	28	16	10	5.2	2.4	1.8	1.2
10	4.1	6.0	7.2	29	23	39	35	14	4.7	2.4	2.1	1.5
11	4.2	5.8	8.2	26	22	28	28	12	4.5	2.0	1.3	1.6
12	4.1	8.4	9.2	23	20	26	43	11	4.4	2.5	1.4	1.5
13	4.1	11	8.0	22	19	38	27	11	4.1	2.9	1.4	1.6
14	4.4	25	8.0	21	19	29	22	10	3.9	2.9	1.0	1.9
15	6.7	11	8.5	19	18	27	18	10	3.6	2.4	1.1	1.6
16	5.9	7.7	8.0	19	17	28	16	9.3	3.2	2.3	1.3	1.0
17	5.6	53	8.2	18	17	23	17	8.9	3.1	2.7	1.2	1.1
18	5.5	51	8.4	17	17	22	17	8.0	3.4	2.6	1.4	1.7
19	5.4	19	8.4	16	26	26	16	7.3	3.3	2.5	1.6	1.8
20	4.4	11	8.2	15	24	23	16	7.2	2.9	2.0	1.4	1.3
21	4.6	9.2	8.2	15	20	21	15	7.2	3.4	1.4	.80	1.2
22	4.3	8.5	8.2	15	19	19	14	7.6	3.4	1.3	1.0	1.1
23	4.2	15	8.0	15	24	19	13	7.6	3.6	1.4	1.2	1.0
24	4.5	59	33	15	26	19	13	7.1	3.2	1.4	1.3	1.3
25	3.9	25	39	14	25	18	12	6.9	3.3	1.3	1.4	1.3
26	3.7	16	18	13	24	18	11	6.6	3.1	1.3	1.6	1.1
27	4.0	14	14	14	21	18	11	6.4	3.0	1.8	1.8	1.0
28	4.4	12	44	13	23	18	11	6.2	3.1	1.6	1.4	1.0
29	4.2	10	55	21	------	17	11	6.2	2.7	1.6	1.2	1.0
30	4.4	9.7	41	30	------	16	11	6.2	2.6	2.4	1.5	1.1
31	4.7	------	35	24	------	16	------	6.4	------	3.9	2.1	------
TOTAL	141.9	440.8	469.7	1,046	683	691	497	273.1	125.0	73.3	45.30	40.70
MEAN	4.58	14.7	15.2	33.7	24.4	22.3	16.6	8.81	4.17	2.36	1.46	1.36
MAX	6.7	59	55	205	46	39	43	14	6.4	3.9	2.2	2.0
MIN	3.7	4.5	7.2	13	17	16	11	6.2	2.6	1.3	.80	.80
AC-FT	281	874	932	2,070	1,350	1,370	986	542	248	145	90	81

WTR YR 1966 TOTAL 4,526.80 MEAN 12.4 MAX 205 MIN .80 AC-FT 8,980

11396400 SUCKER RUN NEAR FORBESTOWN, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	2.4	30	7.2	135	12	51	57	39	12	5.4	3.5
2	1.6	2.7	126	7.5	89	12	54	55	30	11	5.6	3.6
3	1.5	3.0	76	7.8	68	12	56	54	27	11	5.9	3.6
4	.80	3.1	78	8.0	56	12	54	53	25	11	5.7	3.6
5	.60	3.0	169	8.0	48	11	70	52	29	11	5.0	3.8
6	.50	15	125	8.0	43	10	195	50	28	12	4.9	4.0
7	.40	7.5	60	7.8	37	11	129	50	26	12	6.0	3.7
8	.90	3.4	37	7.8	34	9.9	96	50	25	12	5.9	3.5
9	1.4	2.7	27	7.7	31	9.5	83	52	24	11	6.0	3.3
10	1.0	3.1	29	7.7	29	16	79	59	24	11	6.1	3.3
11	1.7	3.4	22	7.6	27	55	78	50	23	11	6.0	3.1
12	1.1	6.2	18	7.6	25	44	69	49	31	11	5.0	2.9
13	1.6	4.9	15	7.6	24	41	64	43	29	11	3.7	2.8
14	1.3	4.5	13	7.6	23	37	71	41	27	10	4.5	2.6
15	1.1	23	11	7.6	22	48	64	40	25	9.9	4.9	2.4
16	1.6	44	9.9	7.6	21	253	58	39	24	9.9	5.1	2.2
17	1.7	8.0	9.1	7.6	21	131	73	37	23	10	4.5	2.3
18	2.6	5.9	8.4	7.6	20	95	76	34	22	10	4.3	3.5
19	1.2	21	8.4	8.0	19	74	73	33	21	10	4.1	2.4
20	1.4	64	8.1	40	18	67	69	31	20	10	4.2	2.1
21	1.6	36	8.0	350	17	62	69	30	19	10	5.2	1.9
22	2.2	24	7.2	240	17	55	66	28	18	9.9	5.6	1.6
23	2.3	12	7.1	150	16	73	78	27	17	9.6	5.8	2.5
24	2.1	8.5	7.1	90	17	56	82	26	16	7.5	5.0	2.1
25	1.8	7.6	6.9	78	22	49	73	25	15	6.7	5.3	1.6
26	2.0	7.0	6.9	70	17	45	68	24	15	6.4	3.6	1.3
27	2.3	6.8	6.9	65	15	42	78	24	14	6.6	3.3	1.1
28	2.4	19	7.0	135	14	42	69	24	14	6.7	3.7	1.2
29	2.6	55	7.0	259	------	42	62	24	13	5.8	3.6	1.0
30	3.0	18	7.0	193	------	43	63	23	13	5.9	3.4	1.5
31	2.7	------	7.0	255	------	52	------	25	------	5.8	3.4	------
TOTAL	50.10	424.7	958.0	2,071.3	925	1,521.4	2,270	1,209	676	297.7	150.7	78.0
MEAN	1.62	14.2	30.9	66.8	33.0	49.1	75.7	39.0	22.5	9.60	4.86	2.60
MAX	3.0	64	169	350	135	253	195	59	39	12	6.1	4.0
MIN	.40	2.4	6.9	7.2	14	9.5	51	23	13	5.8	3.3	1.0
AC-FT	99	842	1,900	4,110	1,830	3,020	4,500	2,400	1,340	590	299	155

CAL YR 1966 TOTAL 4,907.20 MEAN 13.4 MAX 205 MIN .40 AC-FT 9,730
WTR YR 1967 TOTAL 10,631.90 MEAN 29.1 MAX 350 MIN .40 AC-FT 21,090

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	7.5	12	10	45	26	22	11	6.2	3.5	3.3	2.8
2	17	7.3	11	10	59	24	22	11	6.4	3.6	2.4	3.2
3	10	7.0	23	10	50	22	21	11	6.3	3.8	2.0	2.9
4	7.2	7.2	29	10	45	21	20	11	6.4	4.4	1.9	2.4
5	7.3	7.4	35	9.9	40	20	20	9.9	6.5	5.7	1.9	2.2
6	7.0	7.5	14	9.7	38	19	19	9.9	7.9	5.3	1.8	2.2
7	6.7	7.6	38	9.9	36	20	17	9.9	7.9	5.0	1.8	2.2
8	6.6	7.6	17	10	35	30	17	9.9	7.5	4.7	1.8	2.2
9	6.5	8.0	13	11	45	26	16	9.9	6.3	5.0	1.8	2.2
10	6.5	8.1	11	60	58	19	16	9.9	6.0	4.8	1.8	2.1
11	6.4	7.9	11	21	38	15	15	9.8	6.0	4.7	1.8	2.1
12	6.4	7.9	11	14	33	24	15	9.8	5.8	4.3	1.8	2.1
13	6.3	8.1	10	13	44	61	15	11	5.6	4.6	1.8	2.1
14	6.3	10	10	25	34	75	14	11	5.4	5.0	1.8	2.4
15	6.6	8.7	10	100	29	53	14	9.9	4.8	4.5	2.3	2.5
16	6.7	8.6	10	45	34	82	14	9.0	4.4	4.4	2.4	2.5
17	6.4	8.6	9.9	28	102	78	13	8.6	5.0	4.2	2.8	2.5
18	6.0	9.6	11	20	67	63	13	8.5	5.4	3.9	2.6	2.4
19	6.0	30	10	17	100	52	13	8.5	5.5	3.7	4.3	2.4
20	5.8	10	10	14	150	45	12	8.7	5.4	3.3	7.6	2.4
21	6.0	8.8	9.8	13	128	40	12	8.7	5.3	2.9	10	2.4
22	6.5	8.8	9.9	12	95	36	11	9.0	5.2	2.8	8.2	2.4
23	6.6	8.6	10	12	78	33	12	8.7	4.7	2.9	6.5	2.4
24	6.6	8.6	12	11	62	31	11	8.6	4.4	2.8	4.6	2.4
25	6.8	8.5	12	11	52	29	12	8.8	4.1	2.8	3.8	2.4
26	6.6	8.5	12	10	43	28	12	8.6	4.0	2.8	3.3	2.4
27	6.7	8.6	12	10	37	25	11	8.2	4.0	2.6	3.2	2.4
28	6.9	9.9	12	10	32	24	11	7.9	4.0	2.0	3.0	2.4
29	7.3	14	11	30	28	23	11	7.5	3.8	2.2	2.7	2.3
30	7.4	14	11	90	------	22	11	6.7	3.5	2.5	2.4	2.3
31	7.6	------	11	60	------	21	------	6.2	------	2.8	2.4	------
TOTAL	214.4	282.9	428.6	716.5	1,637	1,087	442	287.1	163.7	117.5	99.8	71.6
MEAN	6.92	9.43	13.8	23.1	56.4	35.1	14.7	9.26	5.46	3.79	3.22	2.39
MAX	17	30	38	100	150	82	22	11	7.9	5.7	10	3.2
MIN	1.7	7.0	9.8	9.7	28	15	11	6.2	3.5	2.0	1.8	2.1
AC-FT	425	561	850	1,420	3,250	2,160	877	569	325	233	198	142

CAL YR 1967 TOTAL 10,125.0 MEAN 27.7 MAX 350 MIN 1.0 AC-FT 20,080
WTR YR 1968 TOTAL 5,548.1 MEAN 15.2 MAX 150 MIN 1.7 AC-FT 11,000

11396400 SUCKER RUN NEAR FORBESTOWN, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	5.1	9.2	16	71	127	56	32	16	10	5.6	3.9
2	2.3	7.7	8.4	15	65	109	56	31	16	10	5.2	4.0
3	2.3	11	7.6	14	60	100	59	31	16	9.8	4.9	4.0
4	2.3	7.5	7.4	14	57	89	53	30	16	9.7	4.8	4.0
5	2.6	6.5	7.3	14	68	82	89	28	16	9.4	4.8	4.1
6	2.7	6.2	7.3	14	83	77	72	28	16	9.2	4.7	4.0
7	2.7	6.1	7.2	14	70	72	61	27	16	9.2	4.4	4.0
8	2.6	6.0	7.5	13	66	70	56	26	16	9.2	4.4	4.0
9	2.6	6.0	7.5	12	123	64	53	25	16	9.1	4.3	4.0
10	2.5	6.0	36	12	101	60	50	25	16	9.0	4.2	4.0
11	2.9	6.3	23	29	151	57	49	24	18	8.6	4.1	3.9
12	8.2	25	10	88	245	57	49	23	18	8.6	4.1	4.0
13	5.8	11	8.9	435	138	55	48	23	17	8.6	4.1	4.1
14	5.5	9.9	29	155	126	52	47	24	16	8.5	4.1	4.1
15	5.4	12	81	82	260	52	44	24	15	8.2	4.1	4.1
16	5.0	11	40	60	185	53	42	23	15	8.0	4.1	4.1
17	4.9	9.9	19	50	136	60	41	22	14	7.8	4.0	4.2
18	4.9	13	15	52	119	59	41	22	15	7.5	4.1	4.2
19	4.8	8.7	13	247	102	55	40	21	14	7.4	4.1	4.2
20	4.8	7.7	12	607	97	56	38	20	13	7.2	4.1	4.2
21	4.7	7.4	11	830	87	76	37	20	12	6.9	4.1	4.2
22	4.6	7.2	11	368	80	63	36	19	12	6.8	4.0	4.3
23	4.7	7.1	13	158	84	60	57	18	13	6.9	3.9	4.2
24	4.7	7.8	67	126	95	58	57	16	13	6.6	3.8	4.3
25	4.8	7.8	90	261	92	58	45	17	12	6.7	4.0	4.3
26	4.7	7.3	47	434	84	57	40	17	13	6.3	4.0	4.3
27	4.7	7.2	28	178	79	58	37	17	12	6.2	4.2	4.3
28	4.7	7.2	27	128	143	58	35	17	11	6.1	4.2	4.3
29	5.2	7.1	26	97	------	58	34	16	11	6.3	4.2	4.3
30	5.6	8.5	20	84	------	58	33	15	10	6.2	4.1	4.3
31	5.1	------	17	72	------	58	------	15	------	6.0	4.0	------
TOTAL	130.6	257.2	713.3	4,679	3,067	2,068	1,455	696	434	246.0	132.7	123.9
MEAN	4.21	8.57	23.0	151	110	66.7	48.5	22.5	14.5	7.94	4.28	4.13
MAX	8.2	25	90	830	260	127	89	32	18	10	5.6	4.3
MIN	2.3	5.1	7.2	12	57	52	33	15	10	6.0	3.8	3.9
AC-FT	259	510	1,410	9,280	6,080	4,100	2,890	1,380	861	488	263	246

CAL YR 1968 TOTAL 5,723.3 MEAN 15.6 MAX 150 MIN 1.8 AC-FT 11,350
WTR YR 1969 TOTAL 14,002.7 MEAN 38.4 MAX 830 MIN 2.3 AC-FT 27,770

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	5.0	5.5	17	79	258	35	23	13	9.2	5.8	3.6
2	4.3	4.9	5.5	15	73	130	35	22	13	8.7	5.7	3.5
3	4.4	5.2	5.5	15	68	99	34	22	13	8.3	5.5	3.5
4	4.3	5.5	5.5	14	64	100	33	22	12	8.1	5.3	3.5
5	4.3	12	5.5	14	59	91	32	22	12	8.0	4.9	3.6
6	4.3	6.8	5.5	13	56	82	31	21	11	7.7	4.4	3.6
7	4.3	6.7	5.5	13	53	80	30	21	11	7.6	4.1	3.5
8	4.5	6.7	6.0	14	50	130	30	21	12	7.6	4.1	3.5
9	4.6	5.8	6.1	70	47	93	30	22	14	7.6	4.2	3.5
10	4.5	5.7	8.7	59	45	93	30	22	15	7.8	4.2	3.4
11	4.4	5.5	15	30	44	84	31	22	14	7.7	4.2	3.4
12	4.4	5.6	20	66	65	77	29	22	12	7.6	4.1	3.4
13	4.4	5.6	14	160	138	72	30	22	11	7.6	4.0	3.4
14	4.6	5.4	7.7	400	134	69	32	20	14	7.4	3.9	3.5
15	6.8	5.4	6.8	149	88	65	31	20	12	7.4	4.0	3.4
16	7.6	5.6	6.4	305	121	61	31	19	12	7.1	4.0	3.4
17	6.5	5.5	6.1	185	162	57	29	19	11	6.8	3.9	3.4
18	5.4	5.4	6.2	121	105	55	29	18	11	6.7	3.9	3.3
19	5.5	5.4	39	135	88	54	30	17	10	6.6	3.8	3.3
20	5.6	5.5	61	151	81	51	29	18	9.5	6.5	3.6	3.6
21	5.4	5.5	134	503	74	50	28	17	8.9	6.4	3.4	3.5
22	5.6	5.4	37	363	68	48	27	17	8.6	6.3	3.6	3.3
23	5.6	5.5	118	345	64	46	26	17	8.6	6.3	3.6	3.2
24	5.7	5.5	214	420	61	45	26	16	8.3	6.3	3.6	3.3
25	5.3	5.3	75	185	57	42	26	16	8.3	6.3	3.7	3.2
26	5.2	5.4	43	143	54	41	28	16	8.3	6.2	3.6	3.4
27	5.4	5.4	30	265	52	40	29	16	8.4	6.1	3.4	3.6
28	5.4	5.4	24	146	72	39	26	16	8.6	6.1	3.6	3.5
29	5.2	5.4	21	117	------	38	25	15	10	6.0	3.6	3.3
30	5.3	5.5	19	100	------	37	24	15	9.8	6.0	3.6	3.3
31	5.1	------	18	89	------	36	------	15	------	5.9	3.6	------
TOTAL	158.2	173.5	974.5	4,622	2,122	2,263	886	591	330.3	219.9	126.9	102.9
MEAN	5.10	5.78	31.4	149	75.8	73.0	29.5	19.1	11.0	7.09	4.09	3.43
MAX	7.6	12	214	503	162	258	35	23	15	9.2	5.8	3.6
MIN	4.3	4.9	5.5	13	44	36	24	15	8.3	5.9	3.4	3.2
AC-FT	314	344	1,930	9,170	4,210	4,490	1,760	1,170	655	436	252	204

CAL YR 1969 TOTAL 14,207.8 MEAN 38.9 MAX 830 MIN 3.8 AC-FT 28,180
WTR YR 1970 TOTAL 12,570.2 MEAN 34.4 MAX 503 MIN 3.2 AC-FT 24,930

11397000 SOUTH FORK FEATHER RIVER AT ENTERPRISE, CALIF.

LOCATION.--Lat 39°32'15", long 121°20'45", in NW¼ sec.6, T.19 N., R.6 E., Butte County, on left bank 0.5 mile upstream from McCabe Creek, 1 mile upstream from highway bridge at Enterprise, and 11 miles east of Oroville.

DRAINAGE AREA.--132 sq mi.

PERIOD OF RECORD.--October 1911 to September 1966 (discontinued). Monthly discharge for October 1911, published in WSP 1315-A.

GAGE.--Water-stage recorder. Altitude of gage is 640 ft (from topographic map). Prior to Oct. 18, 1930, nonrecording gage at site 0.5 mile downstream at different datum.

AVERAGE DISCHARGE.--55 years, 303 cfs (219,400 acre-ft per year), unadjusted.

EXTREMES.--Maximum discharge during water year 1966, 1,200 cfs Jan. 4 (gage height, 7.06 ft); minimum daily, 2.1 cfs Sept. 28, 29.

Period of record: Maximum discharge, 19,200 cfs Dec. 22, 1955 (gage height, 21.60 ft), from rating curve extended above 5,700 cfs on basis of computation of peak flow over diversion dam 0.2 mile upstream; no flow Aug. 9, 10, Sept. 24-30, 1950.

REMARKS.--Records good. Flow regulated by powerplants, Little Grass Valley Reservoir (see station 11395020), Sly Creek Reservoir (see station 11395400), and smaller reservoirs. Water from North Yuba River basin is diverted into Sly Creek Reservoir through Slate Creek tunnel. Oroville-Wyandotte Canal (see station 11395500) diverts above station for irrigation of about 4,500 acres in Oroville-Wyandotte Irrigation District. See schematic diagram for South Fork Feather River basin elsewhere in this report.

REVISIONS (WATER YEARS).--WSP 1515: 1918(M), 1926. WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	147	4.4	222	340	38	23	18	375	9.6	4.8	3.2	3.2
2	147	4.2	222	264	35	22	16	378	9.6	4.6	3.0	3.0
3	149	4.4	220	258	31	20	17	341	9.6	4.6	2.7	2.8
4	149	4.4	218	586	44	20	16	378	9.6	4.6	2.4	2.7
5	147	4.4	218	953	60	20	54	370	9.6	4.0	2.6	2.7
6	147	4.6	196	623	64	20	226	370	9.6	3.8	2.6	2.4
7	147	4.8	208	455	49	26	228	370	10	3.8	2.4	2.4
8	147	7.1	212	375	40	22	234	372	10	3.8	2.4	2.6
9	147	7.7	212	335	34	29	254	375	9.6	4.0	2.6	2.7
10	147	59	224	298	30	50	375	382	8.0	4.0	2.8	2.7
11	147	121	222	227	28	33	342	375	7.7	4.0	2.8	2.8
12	149	132	240	254	26	30	395	378	7.7	4.0	2.8	2.7
13	149	140	226	258	24	47	365	378	7.1	4.2	2.8	2.7
14	149	158	244	152	24	35	320	375	6.8	4.4	2.8	2.8
15	150	140	202	25	22	32	290	372	6.5	4.6	2.7	3.0
16	150	132	200	22	21	33	272	350	6.2	4.6	2.7	2.8
17	119	197	240	22	21	27	264	280	5.9	4.2	2.8	2.8
18	6.8	221	212	20	20	26	305	272	5.9	4.2	3.0	3.0
19	5.9	277	210	20	36	30	258	254	5.6	4.2	3.0	3.4
20	4.8	268	210	18	32	27	256	228	5.6	4.0	3.0	3.2
21	4.4	244	210	18	26	24	248	202	5.9	4.2	2.8	3.0
22	4.4	240	216	18	24	23	246	207	6.2	4.2	2.7	3.0
23	4.4	260	210	18	29	22	232	126	6.2	3.8	2.7	3.0
24	4.2	438	293	18	34	22	226	11	5.6	3.6	2.7	3.0
25	4.2	338	340	18	32	22	216	10	5.6	3.6	2.7	2.6
26	4.2	280	248	16	32	21	214	9.6	5.3	3.2	2.8	2.7
27	4.2	256	228	16	26	21	242	9.6	4.8	3.2	3.0	2.6
28	4.2	242	317	15	24	20	375	9.2	4.8	3.4	3.0	2.1
29	4.2	230	440	31	------	20	380	9.2	4.8	3.2	2.7	2.1
30	4.2	226	372	51	------	19	378	9.2	4.4	3.4	2.7	2.2
31	4.2	------	350	35	------	19	------	9.6	------	3.8	3.0	------
TOTAL	2,551.3	4,645.0	7,582	5,759	906	805	7,262	7,585.4	213.8	124.0	85.9	82.7
MEAN	82.3	155	245	186	32.4	26.0	242	245	7.13	4.00	2.77	2.76
MAX	150	438	440	953	64	50	395	382	10	4.8	3.2	3.4
MIN	4.2	4.2	196	15	20	19	16	9.2	4.4	3.2	2.4	2.1
AC-FT	5,060	9,210	15,040	11.420	1,800	1,600	14,400	15,050	424	246	170	164

CAL YR 1965 TOTAL 116,366.4 MEAN 319 MAX 5,060 MIN 4.2 AC-FT 230,800
WTR YR 1966 TOTAL 37,602.1 MEAN 103 MAX 953 MIN 2.1 AC-FT 74,580

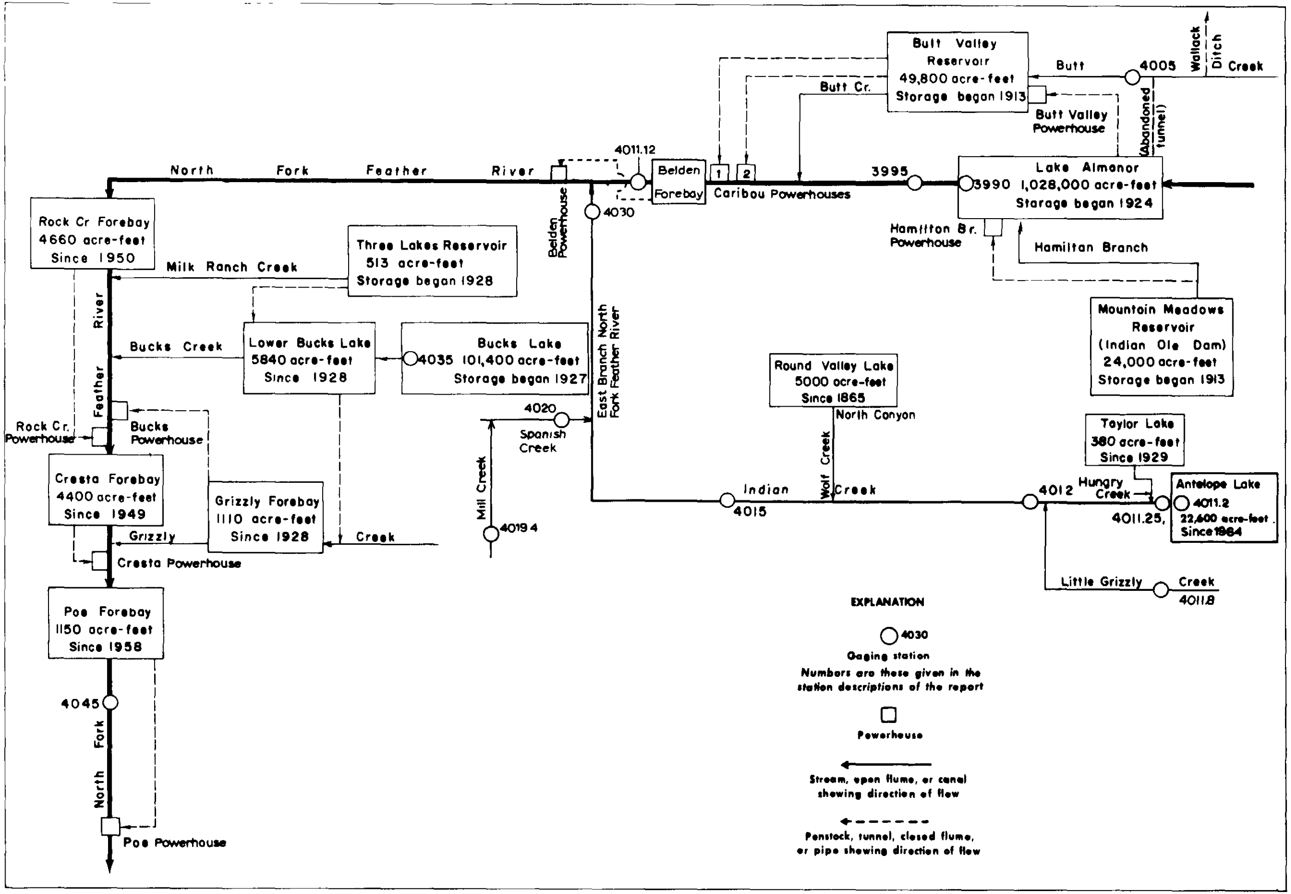

Butt Valley
Reservoir
49,800 acre-feet
Storage began 1913
Butt
4005
Wallack
Ditch
Creek
Butt Cr.
Butt Valley
Powerhouse
(Abandoned
tunnel)
4011.12
Belden
Forebay
1
2
Caribou Powerhouses
3995
Lake Almanor
3990 1,028,000 acre-feet
Storage began 1924
North Fork Feather River
Belden
Powerhouse
4030
Hamilton Br.
Powerhouse
Hamilton Branch
Mountain Meadows
Reservoir
(Indian Ole Dam)
24,000 acre-feet
Storage began 1913
Rock Cr Forebay
4660 acre-feet
Since 1950
Three Lakes Reservoir
513 acre-feet
Storage began 1928
Milk Ranch Creek
River
Bucks Creek
Lower Bucks Lake
5840 acre-feet
Since 1928
Bucks Lake
4035 101,400 acre-feet
Storage began 1927
East Branch North
Fork Feather River
Round Valley Lake
5000 acre-feet
Since 1865
North Canyon
Feather
Rock Cr.
Powerhouse
Bucks
Powerhouse
4020
Spanish
Creek
Mill Creek
40194
Wolf Creek
Taylor Lake
380 acre-feet
Since 1929
Cresta Forebay
4400 acre-feet
Since 1949
Grizzly Forebay
1110 acre-feet
Since 1928
Grizzly
Creek
Cresta Powerhouse
Indian
4015
Creek
4012
Hungry
Creek
4011.25,
Antelope Lake
4011.2
22,600 acre-feet
Since 1964
Little Grizzly
Creek
4011.8
Poe Forebay
1150 acre-feet
Since 1958
4045
North Fork
Poe Powerhouse
EXPLANATION
4030
Gaging station
Numbers are those given in the station descriptions of the report
Powerhouse
Stream, open flume, or canal showing direction of flow
Penstock, tunnel, closed flume, or pipe showing direction of flow

FIGURE 4.--Schematic diagram showing diversions and storage in North Fork Feather River basin.

11399000 LAKE ALMANOR AT PRATTVILLE, CALIF.

LOCATION.--Lat 40°12'50", long 121°09'40", in SW¼NE¼ sec.11, T.27 N., R.7 E., Plumas County, Plumas National Forest, at outlet tower to No. 2 tunnel on North Fork Feather River at Prattville, 4.7 miles northwest of Lake Almanor Dam and 5.6 miles northwest of Canyondam.

DRAINAGE AREA.--491 sq mi.

PERIOD OF RECORD.--July 1913 to September 1970. Monthly contents only for some periods, published in WSP 1315-A. Published as "near Prattville" 1937-60. Prior to October 1964, records published as usable contents.

GAGE.--Nonrecording gage. Datum of gage is 10.23 ft below mean sea level (levels by Pacific Gas & Electric Co.). Prior to June 1, 1965, nonrecording gage at site 4.7 miles southeast at present datum.

EXTREMES.--Maximums and minimums (contents in acre-feet, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum		
Wtr yr	Date	Contents	G.H.	Date	Contents	G.H.
1966	June 12, 1966	811,300	4,481.01	Jan. 29, 1966	604,800	4,471.88
1967	July 2, 1967	1,022,100	4,489.46	Jan. 19, 1967	611,300	4,472.19
1968	May 9, 1968	873,400	4,483.58	Sept.30, 1968	600,300	4,471.67
1969	July 13, 1969	1,051,800	4,490.59	Jan. 12, 13, 1969	530,200	4,468.26
1970	July 12, 1970	1,061,000	4,490.92	Dec. 18, 1969	651,200	4,474.03

Period of record: Maximum contents, 1,061,000 acre-ft July 12, 1970 (gage height, 4,490.92 ft); minimum, 5,230 acre-ft Feb. 5, 1918 (gage height, 4,416.1 ft).

REMARKS.--Lake is formed by an earthfill dam; storage began in July 1913; dam raised to gage height 4,455 ft in 1917 and 4,515 ft in 1927. Capacity, 1,036,000 acre-ft between gage heights 4,490 (upper storage limit) and 4,422 ft (bottom of lowest outlet), of which 8,950 acre-ft is not available for release. Water is diverted by tunnel and penstock to Butt Valley Reservoir and powerhouse for use in Caribou powerplants; some water also released down North Fork Feather River (see station 11399500). Figures given herein represent total contents. See schematic diagram of North Fork Feather River basin elsewhere in this report.

COOPERATION.--Record of contents collected by Pacific Gas & Electric Co., under general supervision of the Geological Survey, in connection with a Federal Power Commission project.

REVISIONS.--WSP 1931: Drainage area.

Capacity table, water years 1966-70 (gage height, in feet, and contents, in acre-feet)

4,465	467,000	4,475	672,700	4,485	908,500
4,470	565,500	4,480	787,300	4,490	1,036,000
				4,491	1,063,000

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	808900	707900	668400	623100	606900	611300	656100	730700	796500	773900	689000	619100
2	806300	703900	667100	621600	605800	610900	658700	733000	797900	772000	686100	617800
3	803900	700200	666400	622300	606700	610500	660900	735800	799400	769900	683200	618400
4	801300	696600	664700	622900	607900	611600	662900	739000	800300	767300	679800	618800
5	798900	692600	663100	624200	609000	611600	665300	740600	801700	765000	676900	619500
6	796000	688800	661100	624900	610700	613000	667600	744100	802900	761500	675100	620100
7	793900	685600	659400	626400	611800	612000	670000	746900	805100	758900	672200	620600
8	791300	682700	657200	625500	611600	613500	672400	750300	806300	756100	670200	621000
9	788900	679800	655400	624900	611600	615000	676000	753400	807900	753100	666900	621600
10	786600	677600	653600	627900	612000	616300	680500	756600	808900	750300	663800	622100
11	784200	675600	652100	629200	611100	617800	683400	758900	810300	747600	660500	622300
12	781600	674200	650300	630100	610700	619900	685600	761500	811300	745000	657600	622700
13	779300	674000	648600	628100	611300	622100	688100	764100	811000	742300	655200	623400
14	776700	677300	647500	626000	610700	624200	690300	766600	810300	739500	652300	623800
15	773200	679100	646000	626400	609400	626400	692600	769000	809400	736500	649200	624400
16	768500	679100	643500	624400	609400	628300	695100	771300	807000	733500	645700	624700
17	765000	683600	640900	622900	608400	629600	698200	773700	804400	730700	643100	625300
18	761000	688800	639000	621400	607900	630900	700700	775500	802200	728000	641800	626400
19	756800	689200	636600	620100	608200	632900	702700	777600	799100	725500	642200	626600
20	752700	688800	635100	618400	608800	634400	704800	779800	796800	723600	640700	627500
21	749600	687200	630500	616700	607900	635900	707300	781200	793700	721100	638100	628100
22	745500	684300	626600	615200	608800	637000	709100	783300	791100	717900	635500	628500
23	741800	683800	623800	613300	610500	638500	711300	784700	788900	715200	633700	629200
24	737900	683600	621900	611300	612000	639800	713800	786100	786800	711600	631600	629600
25	733700	680700	621900	609400	611600	641600	716600	787500	784500	708800	628500	630300
26	730500	678700	623800	607700	611800	643300	719500	789200	782600	705400	627500	630300
27	726600	675800	621900	606000	612800	645100	721400	790600	780500	702500	626800	630100
28	723200	672700	624200	605200	612700	647000	723600	791800	779300	699600	626800	628500
29	719100	670400	623800	604800	---	649000	725700	793400	778600	696900	623600	627700
30	715400	669500	624000	607300	---	651200	728200	794400	776200	693700	621000	628300
31	711300	---	624400	606500	---	653600	---	795800	---	691900	619900	---
MAX	808900	707900	668400	630100	612800	653600	728200	795800	811300	773900	689000	630300
MIN	711300	669500	621900	604800	605800	610500	656100	730700	776200	691900	619900	617800
(†)	4476.72	4474.86	4472.80	4471.96	4472.23	4474.14	4477.46	4480.36	4479.53	4475.88	4472.59	4472.98
(‡)	-100000	-41800	-45100	-17900	+5700	+41400	+74600	+67600	-19600	-84300	-72000	+8400

CAL YR 1965 MAX 1040000 MIN 621900 ‡ -31700
WTR YR 1966 MAX 811300 MIN 604800 ‡ -183000

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11399000 LAKE ALMANOR AT PRATTVILLE, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	628800	619700	668000	669500	650800	656500	701800	742200	896300	1020000	964900	887200
2	629200	619700	672400	666200	653800	654700	703600	741800	900800	1022000	962600	884400
3	628100	619300	674700	662700	656100	652500	705400	741100	905500	1022000	960300	882000
4	627200	618800	680200	659100	658700	649900	707500	741600	910400	1021000	957200	879500
5	627900	619300	683200	656300	660700	647700	710200	743900	915200	1020000	954700	876800
6	627200	621000	685200	653000	662700	646200	712900	745700	918700	1019000	951900	874400
7	626600	621200	686700	649900	664400	645100	714800	748000	922700	1017000	949600	871900
8	627700	621400	687900	646200	666400	643500	716300	751000	926900	1015000	947300	869900
9	626600	621000	689700	643100	666400	640100	718400	755000	931000	1014000	944800	865800
10	626400	619900	690100	639800	666000	643800	720200	758200	935200	1012000	942300	863100
11	625700	620600	689700	636800	667800	648100	722300	761300	939300	1010000	939500	859900
12	625700	621400	690300	633100	669500	650100	723600	763800	944800	1008000	936000	858000
13	625300	621800	692600	630300	671300	653800	725900	765900	948900	1006000	935500	854400
14	623800	622500	694200	627000	673300	655200	728000	769000	953200	1004000	932700	851900
15	624200	626200	695500	623400	673300	658300	729800	772500	957700	1002000	929700	849500
16	623800	629200	696900	620600	671800	661800	731200	777400	962800	1001000	927200	846600
17	622700	630300	698700	617500	671500	664700	735100	783000	967900	998200	924700	844200
18	623400	631600	700000	614100	672900	667300	736900	789400	972800	996200	921900	841300
19	624200	638500	701400	611300	674700	669500	738800	797000	979200	993600	918900	838900
20	624200	642700	702700	613500	674000	672200	740400	805300	983500	991500	915900	836700
21	625300	646800	703900	619300	671300	674400	742200	813400	987900	989200	913900	834100
22	626400	648400	702100	621800	668900	676400	742900	822600	992500	987100	911400	831400
23	627200	650100	699300	621800	666000	680700	743200	831400	996200	984800	909200	829800
24	628100	651700	696000	623100	664200	682700	742900	840300	1000000	982800	906700	826600
25	628800	653400	693000	626400	663100	685000	742700	848500	1005000	980500	904200	823900
26	629600	654700	685400	628500	661600	687200	741800	856500	1008000	978400	901700	821500
27	629800	655800	686100	630100	659600	689400	741800	863600	1012000	976100	899800	819900
28	627900	658500	682700	632000	658300	691900	741100	870900	1015000	973800	897000	817700
29	625500	660700	679600	637400	---	693900	741800	877800	1017000	971700	894600	816500
30	623100	662700	676000	643800	---	696600	742900	883900	1019000	969700	892100	815300
31	620800	---	672700	647900	---	699800	---	889600	---	967200	889600	---
MAX	629600	662700	703900	669500	674700	699800	743200	889600	1019000	1022000	964900	887200
MIN	620800	618800	668000	611300	650800	640100	701800	741100	896300	967200	889600	815300
(†)	4472.63	4474.55	4475.00	4473.88	4474.35	4476.21	4478.10	4484.24	4489.34	4487.33	4484.24	4481.18
(‡)	-7500	+41900	+10000	-24800	+10400	+41500	+43100	+146700	+129400	-51800	-77600	-74300

CAL YR 1966 MAX 811000 MIN 604800 ‡ +48300
WTR YR 1967 MAX 1022000 MIN 611300 ‡ +187000

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	815100	759200	731200	706600	733500	765000	836900	858000	850200	804100	744600	663300
2	815300	757300	731400	706400	734200	768000	839100	860400	848800	802500	742000	662000
3	814600	755400	731700	706400	733700	770600	841000	862600	848300	799800	739300	661600
4	812200	753400	733700	706100	734900	773700	843000	865100	847800	799100	736500	658900
5	810500	751500	735600	706400	734600	775800	844400	866800	847800	797000	733700	656100
6	808600	749400	735300	706400	733500	778800	845400	868700	847600	795100	730500	653200
7	806700	747300	737000	706400	730500	781200	845600	870900	846600	792700	727500	650600
8	805100	745300	737400	706100	727500	784000	844900	872900	844700	792300	725000	647700
9	803400	743200	738300	706100	725500	786100	844400	873400	843200	789900	722000	638500
10	801700	742000	738100	703000	723600	788200	844400	872200	841300	788500	719300	642500
11	800100	742900	736000	702100	722000	790400	845100	870900	839100	786600	716300	639600
12	800800	744100	737200	700900	720000	794400	847600	869500	838100	785200	713400	637200
13	796500	742900	733000	707700	717700	799800	848300	869700	836500	782800	710400	634200
14	794400	741800	731000	711100	715700	799800	847300	868700	834800	782100	707300	631600
15	792300	739900	728700	714100	712700	802200	849500	867500	832800	780000	704300	628500
16	790800	738600	725200	716300	710000	805800	851900	866300	830700	778600	702100	626200
17	788900	737000	723200	716800	708800	807900	852700	864800	829500	776000	701400	624200
18	786400	739500	723900	717700	710400	809800	853900	863600	829000	774100	699300	621900
19	784900	742700	722700	718400	714800	811500	853400	862900	826400	771800	697100	619300
20	782600	741600	720700	719100	718900	813200	851900	862900	823700	769700	695300	616700
21	781200	739700	719100	719800	724300	815300	850500	861700	823000	767100	692800	615800
22	779300	737400	716600	719800	730500	817200	849000	861200	821100	765900	690300	614800
23	777400	738800	714800	720400	737000	818900	849300	860700	818900	763600	687600	612800
24	775500	737400	712500	720900	742700	820600	850000	859700	817000	761500	684700	610500
25	773700	737900	710200	721100	747300	822700	851000	858500	814800	759200	682000	608400
26	771500	737000	708400	721800	751700	824700	850700	857300	812700	757300	678900	606500
27	769400	735300	706600	722700	755400	826600	851200	855600	810500	755400	676700	604100
28	768000	733700	707000	723400	758900	828300	851900	854100	807900	753100	674400	603300
29	765200	733700	706800	730500	762000	830000	853600	854100	807000	751000	671600	602400
30	763400	731900	706600	731900	---	832400	855800	853100	806300	748700	668900	600300
31	761300	---	706600	732600	---	834800	---	851900	---	746600	666200	---
MAX	815300	759200	738300	732600	762000	834800	855800	873400	850200	804100	744600	663300
MIN	761300	731900	706600	700900	708800	765000	836900	851900	806300	746600	666200	600300
(†)	4478.89	4477.62	4476.51	4477.65	4478.92	4481.99	4482.86	4482.70	4480.80	4478.26	4474.71	4471.67
(‡)	-54000	-29400	-25300	+26000	+29400	+72800	+21000	-3900	-45600	-59700	-80400	-65900

CAL YR 1967 MAX 1061000 MIN 611300 ‡ +33900
WTR YR 1968 MAX 873400 MIN 600300 ‡ -215000

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11399000 LAKE ALMANOR AT PRATTVILLE, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	598200	584000	590200	559200	590900	638100	615200	747600	945600	1040000	1023100	939300
2	595900	585200	588300	556100	591900	637000	620600	753100	949900	1041200	1021000	936500
3	593800	587300	586200	552800	592500	636800	625100	758900	954400	1043100	1019000	933000
4	591500	588100	584000	550000	595900	636100	629800	763600	958800	1045000	1016000	930000
5	589800	588800	581900	546900	599100	641800	635100	769000	963300	1046700	1014000	926700
6	590400	589600	580000	543900	603100	638800	639400	774800	967700	1049000	1011100	923400
7	588500	589400	577900	541300	604800	635500	642700	781600	972000	1050400	1009000	920400
8	585600	589800	579000	538100	607100	632700	646000	788700	977600	1050200	1006500	917200
9	582900	590200	578100	535000	610100	630700	649200	796500	982300	1050000	1004100	913900
10	580600	590600	583100	532000	612400	627200	652500	804800	985900	1049400	1002000	910900
11	581200	594400	584800	531400	615800	624400	655800	813700	990500	1049100	999000	907500
12	583100	595500	584200	530200	618000	621900	659600	822300	993800	1050200	996700	904000
13	583300	594600	585000	530200	620600	618800	663100	830700	997700	1052000	994600	900800
14	582700	593800	587300	532600	623800	616300	666900	838900	1001300	1051200	992000	897000
15	584400	592500	591900	534000	627900	613500	670200	845900	1005000	1050200	989500	893600
16	584600	591700	592500	538700	629400	610500	674200	853600	1008000	1050000	987100	889900
17	582900	591300	590400	537700	631800	607900	678900	860900	1010400	1049000	984300	886200
18	581000	591500	589000	537500	632900	605200	683200	868200	1013000	1048300	981800	882500
19	581000	591900	587300	541100	633500	602400	687900	875100	1017000	1047300	978900	878800
20	581900	592300	584400	549000	634200	600100	692600	881700	1019300	1047000	975600	876300
21	582900	592100	581500	560000	634000	597600	697800	887900	1022000	1046500	972500	872900
22	583700	590400	580000	565300	633500	594600	703200	894600	1024000	1044100	970000	869700
23	584800	591500	579200	566500	634200	592300	710400	900800	1026300	1043100	966400	866300
24	583700	593800	579200	571500	635300	591300	714300	906700	1028000	1041000	963800	862900
25	584600	593200	577700	576500	636800	592100	718200	912900	1030000	1039400	961300	859700
26	585400	591300	574400	584800	636400	594400	722300	917700	1031000	1037000	958200	856800
27	586200	589000	572300	588500	636800	596300	726400	922700	1033100	1035000	954900	855300
28	586000	589800	570300	589400	638100	598600	731000	927500	1035000	1032300	951600	854100
29	585800	588800	569400	589800	---	601800	736300	932000	1036300	1030200	949100	851000
30	584200	589000	568200	590200	---	605400	742000	936500	1036300	1028000	945800	848500
31	584600	---	561600	590200	---	609900	---	941300	---	1025000	942800	---
MAX	598200	595500	592500	590200	638100	641800	742000	941300	1036300	1052000	1023100	939300
MIN	580600	584000	561600	530200	590900	591300	615200	747600	945600	1025000	942800	848500
(†)	4470.92	4471.13	4469.81	4471.19	4473.43	4472.12	4478.06	4486.31	4490.00	4489.57	4486.37	4482.56
(‡)	-15700	+4400	-27400	+28600	+47900	-28200	+132100	+199300	+95000	-11300	-82200	-94300

CAL YR 1968 MAX 873400 MIN 561600 ‡ -145000
WTR YR 1969 MAX 1052000 MIN 530200 ‡ +248200

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	845400	766900	683832	691500	877313	923440	926200	937509	1001000	1053000	1019000	934739
2	842003	763831	680500	692600	880300	923440	924943	939300	1002000	1056000	1017000	932000
3	837900	761033	677600	693936	883500	919700	924200	941300	1004000	1054000	1014000	929208
4	837200	756612	674000	695512	887200	920436	923440	941544	1005000	1056000	1011000	926448
5	836500	758705	671600	696000	889900	920436	922438	942600	1006000	1057000	1009000	923200
6	834300	755915	668700	693711	893100	919435	921437	944323	1008000	1057000	1006000	920200
7	831403	753824	665334	691500	895800	921937	920436	945839	1010000	1057000	1004000	917436
8	828515	751504	662900	690800	898800	924700	919435	947600	1011000	1057000	1001000	914439
9	825400	748500	660025	695300	901748	926448	918435	950900	1012000	1057000	998500	911700
10	823000	745947	657200	697800	904231	926448	917436	953700	1015000	1058000	995908	908210
11	819200	742713	656936	700021	906220	926700	916936	954945	1017000	1059000	993326	905225
12	815802	740200	660246	703411	909000	925946	918935	956722	1019000	1061000	990748	902245
13	812700	737641	662235	709100	909703	925946	920436	959009	1020000	1059000	988200	899020
14	809600	734650	660700	717029	912200	927200	920936	960300	1023000	1057000	985600	895800
15	809600	731900	658039	721619	914700	929500	919936	962100	1024000	1055000	982800	892338
16	809400	728700	655400	728700	918200	929500	920936	964609	1026000	1053000	980206	889127
17	808200	725300	652800	736030	919700	930000	922200	967700	1028000	1052000	977642	885922
18	806300	722047	651216	742500	918435	929500	923700	970000	1030000	1049000	975100	882228
19	804400	719100	654300	747600	917200	929000	925946	972300	1032000	1047000	972300	878800
20	802700	715900	658300	752900	915937	929000	927702	974600	1034000	1045000	969500	875105
21	800100	713200	666700	762900	914939	929000	928500	976105	1035000	1043000	966649	871700
22	797500	710000	671600	775800	913940	930500	929000	978411	1037000	1041000	963844	868248
23	794400	706806	676238	798700	913442	930213	929500	981000	1038000	1039000	961044	865100
24	791546	704100	681816	818914	912444	929500	930500	983544	1040000	1037000	958000	863120
25	788947	701200	685900	831900	911447	928706	932223	985900	1042000	1035000	954945	863400
26	785643	698442	688544	843936	910949	927500	935000	988200	1043000	1032000	951902	864100
27	782600	695512	691238	852700	910949	927702	935746	990233	1045000	1030000	948900	865100
28	779522	692400	692812	859000	914700	927702	936000	991800	1049000	1027000	945839	865100
29	776233	689442	693037	864100	---	928500	936250	994400	1051000	1025000	943100	865100
30	773200	686302	691014	868737	---	928500	936502	997200	1053000	1023000	940300	864828
31	770140	---	689900	873144	---	927500	---	999008	---	1021000	937509	---
MAX	845400	766900	693037	873144	919700	930500	936502	999008	1053000	1061000	1019000	934739
MIN	770140	686302	651216	690800	877313	919435	916936	937509	1001000	1021000	937509	863120
(†)	4479.27	4475.61	4475.77	4483.57	4485.25	4485.76	4486.12	4488.57	4990.62	4489.41	4486.16	4483.23
(‡)	-78400	-83800	+3600	+183200	+41600	+12800	+9000	+62500	+54000	-32000	-83500	-72700

CAL YR 1969 MAX 1036000 MIN 530200 ‡ +128300
WTR YR 1970 MAX 1061000 MIN 651216 ‡ +16300

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11399500 NORTH FORK FEATHER RIVER NEAR PRATTVILLE, CALIF.

LOCATION.--Lat 40°10'10", long 121°05'29", in NE¼SW¼ sec.28, T.27 N., R.8 E., Plumas County, Plumas National Forest, on left bank 0.5 mile downstream from Almanor Dam, 4.5 miles southeast of Prattville, and 9 miles upstream from Butt Creek.

DRAINAGE AREA.--493 sq mi.

PERIOD OF RECORD.--June 1905 to September 1970 (daily discharges for July 1921 to September 1936 include water diverted through Almanor-Butt Creek tunnel). Records for water year 1911 incomplete, yearly estimate published in WSP 1315-A. Published as "below Prattville" prior to 1911. Supplemental records for Almanor-Butt Creek tunnel diversion computed November 1924 to Dec. 30, 1958, as difference of flow between Butt Creek above Almanor-Butt Creek tunnel (unpublished prior to 1936 and since 1964), and Butt Creek below Almanor-Butt Creek tunnel (unpublished prior to 1936 and 1960-64).

GAGE.--Water-stage recorder and broad-crested weir. Altitude of gage is 4,380 ft (from topographic map). Prior to Oct. 1, 1936, nonrecording gages or water-stage recorders at several sites within 0.5 mile of present site at various datums.

AVERAGE DISCHARGE.--65 years, 900 cfs (652,000 acre-ft per year), adjusted for diversion and leakage.

EXTREMES.--Maximum and minimum discharges in cubic feet per second, for the water years 1966-70 are contained in the following table:

	Maximum		Minimum daily	
Wtr yr	Date	Discharge	Date	Discharge
1966	May 21-25, 1966	37	Sept. 1, 1966	23
1967	Sept.23-25, 27, 29, 30, 1967	40	Oct. 27, 31, 1966	4.5
1968	Apr. 3, 1968	52	Apr. 19-21, 1968	31
1969	Mar. 22-24, 1969	81	Oct. 15, 17, 21-23, 1968	30
1970	Jan. 29, 1970	66	Sept.22-24, 1970	8.9

Period of record: Maximum discharge, 10,000 cfs Mar. 19, 1907, before construction of dam (gage height, 16.2 ft, at former site), from rating curve extended above 3,700 cfs; no flow Apr. 15, 16, 1914, at times January to April 1919, Apr. 21, 1923.

REMARKS.--Since 1924, flow regulated by Lake Almanor 0.5 mile upstream (see station 11399000) and Mountain Meadows Reservoir (capacity, 24,000 acre-ft). Water diverted for power from Lake Almanor through old Almanor-Butt Creek tunnel to Butt Creek until Dec. 30, 1958. Diversion through new tunnel and Butt Valley powerhouse began Dec. 31, 1958. See schematic diagram of North Fork Feather River basin elsewhere in this report.

COOPERATION.--Gage-height record and 21 discharge measurements for the water years 1966-67 furnished by Pacific Gas & Electric Co., in connection with a Federal Power Commission project; records for the water years 1968-70 collected by Pacific Gas & Electric Co., under general supervision of the Geological Survey, in connection with a Federal Power Commission project.

REVISIONS (WATER YEARS).--WSP 1245: 1951 (yearly summaries). WSP 1285: 1952 (yearly summaries).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	34	35	35	35	35	36	36	36	36	35	23
2	35	35	35	35	35	35	36	36	36	36	35	35
3	35	35	35	35	35	35	36	36	36	35	35	35
4	35	35	35	35	35	35	36	36	36	35	35	35
5	35	35	35	35	35	35	36	36	36	35	35	35
6	35	35	34	35	35	35	36	36	36	35	35	36
7	35	35	34	34	35	35	36	36	36	35	35	36
8	35	35	34	34	35	35	36	36	36	35	35	26
9	35	35	34	34	35	35	36	36	36	35	35	26
10	35	35	35	35	35	35	36	36	36	35	36	36
11	35	35	36	36	35	36	36	36	36	35	36	35
12	35	35	35	36	35	36	36	36	36	36	36	35
13	35	35	35	36	35	36	36	36	36	36	36	35
14	35	35	35	36	35	36	36	36	36	35	36	35
15	35	35	35	35	35	36	36	36	36	35	36	35
16	35	35	35	35	35	36	36	36	36	35	36	35
17	34	35	35	35	35	36	36	36	36	35	36	35
18	34	35	35	35	35	36	36	36	36	35	36	35
19	34	35	35	35	35	36	36	36	36	35	36	35
20	34	35	35	35	35	36	36	36	36	36	36	35
21	34	35	36	35	35	36	36	37	36	36	36	35
22	35	35	36	35	35	36	36	37	36	36	36	35
23	35	35	36	35	35	36	36	37	36	36	36	35
24	35	35	36	35	35	36	36	37	36	36	36	35
25	35	35	36	35	35	36	36	37	36	35	35	35
26	35	35	36	34	35	36	36	36	36	35	35	35
27	35	35	36	34	35	36	36	36	36	35	35	35
28	34	35	35	34	35	36	36	36	36	35	35	35
29	34	35	35	34	------	36	36	36	36	35	35	35
30	34	35	35	35	------	36	36	36	36	35	35	35
31	34	------	35	35	------	36	------	36	------	35	26	------
TOTAL	1,076	1,049	1,089	1,082	980	1,106	1,080	1,121	1,080	1,094	1,091	1,023
MEAN	34.7	35.0	35.1	34.9	35.0	35.7	36.0	36.2	36.0	35.3	35.2	34.1
MAX	35	35	36	36	35	36	36	37	36	36	36	36
MIN	34	34	34	34	35	35	36	36	36	35	26	23
AC-FT	2,130	2,080	2,160	2,150	1,940	2,190	2,140	2,220	2,140	2,170	2,160	2,030
MEAN†	1,880	1,542	1,356	92.2	492	186	49.8	49.3	862	1,672	1,450	185
AC-FT†	115,600	91,740	83,380	56,660	27,340	11,430	2,960	3,030	51,280	102,800	89,150	10,980

CAL YR 1965 TOTAL 12,829 MEAN 35.1 MAX 38 MIN 34 AC-FT 25,450 MEAN† 1,022 AC-FT† 739,900
WTR YR 1966 TOTAL 12,871 MEAN 35.3 MAX 37 MIN 23 AC-FT 25,530 MEAN† 893 AC-FT† 646,400

† ADJUSTED FOR DIVERSION THROUGH BUTT VALLEY POWERHOUSE AND LEAKAGE FROM ALMANOR-BUTT CREEK TUNNEL NO. 1.

11399500 NORTH FORK FEATHER RIVER NEAR PRATTVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	4.7	35	35	34	33	34	36	38	35	35	35
2	35	16	35	35	34	33	33	36	38	35	35	35
3	35	35	35	35	34	33	34	36	38	35	35	35
4	35	35	36	35	34	33	34	36	38	35	35	35
5	35	35	36	35	34	33	34	36	38	35	35	35
6	35	35	36	35	34	33	34	37	38	35	35	37
7	36	35	36	35	34	33	34	37	38	35	35	39
8	36	35	36	35	34	33	34	38	38	35	35	39
9	36	35	36	35	34	33	34	38	38	35	35	39
10	36	35	36	34	34	33	34	38	38	35	35	39
11	36	35	36	34	33	33	34	38	38	35	35	39
12	36	35	36	34	33	33	34	38	36	35	35	39
13	36	35	36	34	33	33	34	37	34	35	34	39
14	36	35	36	34	33	33	34	37	34	35	34	39
15	36	36	36	34	33	33	34	37	34	35	34	39
16	36	35	36	34	33	34	34	37	34	35	34	39
17	26	35	36	33	33	34	34	38	34	35	34	39
18	5.6	35	36	33	33	34	34	37	34	35	34	39
19	5.0	36	36	33	33	34	34	37	35	35	34	39
20	5.0	36	36	33	33	34	34	37	35	35	34	39
21	5.0	35	36	34	33	34	34	37	35	35	34	39
22	5.0	35	36	34	33	34	34	37	35	35	34	39
23	4.9	35	36	34	33	35	34	37	35	35	34	40
24	5.0	35	36	34	33	34	35	37	35	35	33	40
25	5.3	35	36	34	33	34	36	38	35	35	33	40
26	4.9	35	36	34	33	33	36	38	35	35	34	39
27	4.5	35	36	34	33	34	36	38	35	35	35	40
28	4.7	36	36	34	33	34	36	38	35	35	35	39
29	4.9	36	36	36	------	34	36	38	35	35	35	40
30	4.7	36	36	35	------	34	36	38	35	35	35	40
31	4.5	------	36	35	------	34	------	38	------	35	35	------
TOTAL	666.0	1,006.7	1,113	1,063	934	1,039	1,032	1,155	1,078	1,085	1,069	1,154
MEAN	21.5	33.6	35.9	34.3	33.4	33.5	34.4	37.3	35.9	35.0	34.5	38.5
MAX	36	36	36	36	34	35	36	38	38	35	35	40
MIN	4.5	4.7	35	33	33	33	33	36	34	35	33	35
AC-FT	1,320	2,000	2,210	2,110	1,850	2,060	2,050	2,290	2,140	2,150	2,120	2,290
MEAN†	449	258	736	1,375	738	534	317	185	89.1	1,734	1,906	1,748
AC-FT†	27,580	15,360	45,280	84,560	40,990	32,830	18,830	11,400	5,300	106,600	117,200	104,000

CAL YR 1966 TOTAL 12,442.7 MEAN 34.1 MAX 37 MIN 4.5 AC-FT 24,680 MEAN† 613 AC-FT† 443,800
WTR YR 1967 TOTAL 12,394.7 MEAN 34.0 MAX 40 MIN 4.5 AC-FT 24,580 MEAN† 842 AC-FT† 610,000

† ADJUSTED FOR DIVERSION THROUGH BUTT VALLEY POWERHOUSE AND LEAKAGE FROM ALMANOR-BUTT CREEK TUNNEL NO. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	39	37	35	36	37	39	34	35	37	36	34
2	40	39	37	35	36	37	48	34	35	37	36	34
3	40	39	37	35	36	37	52	35	34	37	36	34
4	40	39	37	35	36	37	43	34	34	37	36	34
5	40	39	37	35	36	37	34	34	34	37	36	34
6	40	38	37	35	36	38	34	34	34	37	36	34
7	40	39	37	35	36	37	34	34	34	36	36	34
8	40	38	37	35	36	38	33	34	34	36	35	34
9	40	38	37	35	36	38	32	34	34	36	35	34
10	40	38	37	35	36	38	33	34	34	37	35	34
11	40	38	37	35	36	38	33	34	34	37	35	34
12	40	38	37	35	36	38	33	34	34	37	35	33
13	40	38	37	35	36	38	33	34	34	37	35	33
14	39	38	37	35	36	38	33	35	34	37	35	33
15	39	38	36	35	36	38	33	35	36	37	35	33
16	39	37	36	35	36	38	33	35	37	36	35	33
17	39	37	36	34	36	38	32	35	38	36	35	33
18	39	37	36	34	36	38	32	35	37	36	35	33
19	39	38	36	35	36	38	31	35	37	36	35	32
20	39	37	36	35	37	38	31	35	37	36	35	32
21	39	37	36	36	37	38	31	35	37	36	35	32
22	39	37	36	35	37	38	40	35	37	36	35	32
23	39	37	36	36	38	38	47	35	37	36	35	32
24	39	37	36	36	37	38	46	35	37	36	35	32
25	39	37	36	36	37	39	47	35	37	36	35	32
26	39	37	36	36	37	39	43	35	37	36	34	32
27	39	37	36	36	37	39	37	35	37	36	34	32
28	39	37	35	36	37	39	34	35	37	36	34	32
29	39	37	35	36	37	39	34	35	37	36	34	32
30	39	37	35	36	------	39	34	34	37	36	34	32
31	39	------	35	36	------	39	------	35	------	36	34	------
TOTAL	1,222	1,132	1,126	1,093	1,055	1,179	1,099	1,072	1,070	1,128	1,086	989
MEAN	39.4	37.7	36.3	35.3	36.4	38.0	36.6	34.6	35.7	36.4	35.0	33.0
MAX	40	39	37	36	38	39	52	35	38	37	36	34
MIN	39	37	35	34	36	37	31	34	34	36	34	32
AC-FT	2,420	2,250	2,230	2,170	2,090	2,340	2,180	2,130	2,120	2,240	2,150	1,960
MEAN†	1,458	1,175	1,122	637	911	59.2	622	1,081	1,372	1,447	1,727	1,502
AC-FT†	89,640	69,870	69,040	39,160	52,420	3,640	36,980	66,480	81,600	89,000	106,200	89,340

CAL YR 1967 TOTAL 13,089 MEAN 35.9 MAX 40 MIN 33 AC-FT 25,960 MEAN† 1,036 AC-FT† 750,300
WTR YR 1968 TOTAL 13,251 MEAN 36.2 MAX 52 MIN 31 AC-FT 26,280 MEAN† 1,093 AC-FT† 793,400

† ADJUSTED FOR DIVERSION THROUGH BUTT VALLEY POWERHOUSE AND LEAKAGE FROM ALMANOR-BUTT CREEK TUNNEL NO. 1.

11399500 NORTH FORK FEATHER RIVER NEAR PRATTVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	40	40	38	39	42	41	59	38	35	39	37
2	32	40	40	38	39	42	41	39	36	35	39	37
3	32	40	40	38	39	42	42	40	34	35	39	37
4	32	40	40	38	39	42	42	39	34	35	39	37
5	32	40	40	38	40	42	45	37	34	35	39	36
6	32	41	40	38	40	42	45	36	34	35	39	36
7	32	41	40	38	40	42	46	36	34	35	39	36
8	31	41	40	38	40	42	46	36	34	35	39	36
9	31	42	40	38	41	42	47	36	34	35	38	36
10	31	42	41	38	41	42	48	35	34	35	38	36
11	31	42	40	38	42	41	49	36	35	35	38	36
12	31	42	40	38	42	41	50	36	35	35	38	36
13	31	41	40	39	42	41	50	37	35	35	38	36
14	31	41	40	38	42	41	50	37	35	35	38	36
15	30	41	41	38	42	41	50	37	35	34	38	36
16	31	41	40	38	42	41	51	37	35	34	38	35
17	30	40	40	38	42	41	52	38	35	34	38	35
18	31	40	40	38	42	41	52	38	35	34	38	35
19	31	41	40	39	42	40	53	38	35	34	38	35
20	31	40	40	42	40	40	53	38	35	34	38	35
21	30	41	40	44	40	47	54	38	35	34	38	35
22	30	40	40	41	40	81	54	39	35	34	37	35
23	30	40	39	40	41	81	55	39	35	34	37	34
24	46	40	39	40	41	81	56	39	35	34	37	34
25	48	40	39	40	41	55	56	39	35	34	37	34
26	40	40	39	42	41	36	56	40	35	34	37	34
27	40	40	39	40	41	37	58	38	35	34	37	34
28	40	41	38	40	42	37	58	38	35	34	37	34
29	40	41	38	40	------	38	58	38	35	33	37	34
30	41	40	38	40	------	38	59	38	35	37	37	34
31	40	------	38	40	------	40	------	38	------	39	37	------
TOTAL	1,050	1,219	1,229	1,213	1,143	1,399	1,517	1,189	1,046	1,075	1,176	1,061
MEAN	33.9	40.6	39.6	39.1	40.8	45.1	50.6	38.4	34.9	34.7	37.9	35.4
MAX	48	42	41	44	42	81	59	59	38	39	39	37
MIN	30	40	38	38	39	36	41	35	34	33	37	34
AC-FT	2,080	2,420	2,440	2,410	2,270	2,770	3,010	2,360	2,070	2,130	2,330	2,100
MEAN†	850	648	1,356	1,011	354	1,610	59.3	48.8	47.2	981	2,007	2,228
AC-FT†	52,270	38,590	83,380	62,160	19,640	98,970	3,530	3,000	2,810	60,350	123,400	132,600

CAL YR 1968 TOTAL 13,269 MEAN 36.3 MAX 52 MIN 30 AC-FT 26,320 MEAN† 1,018 AC-FT† 739,100
WTR YR 1969 TOTAL 14,317 MEAN 39.2 MAX 81 MIN 30 AC-FT 28,400 MEAN† 940 AC-FT† 680,700

† ADJUSTED FOR DIVERSION THROUGH BUTT VALLEY POWERHOUSE AND LEAKAGE FROM ALMANOR-BUTT CREEK TUNNEL NO. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	30	34	37	35	36	37	39	40	36	37	35
2	34	30	36	37	35	36	37	39	37	37	40	35
3	34	29	37	37	36	36	37	39	35	37	40	35
4	34	29	37	37	36	36	37	39	35	37	40	35
5	34	30	37	37	36	36	37	39	35	37	40	35
6	34	29	37	37	36	37	37	39	35	37	38	35
7	33	29	36	37	36	37	37	39	35	37	37	35
8	33	29	36	37	36	37	38	38	35	37	37	35
9	33	29	36	37	36	37	38	39	35	37	37	34
10	33	29	36	37	36	37	38	39	35	37	37	34
11	32	29	36	37	37	37	38	39	35	37	37	34
12	32	29	36	38	36	37	38	39	35	37	37	34
13	32	29	35	40	36	37	38	39	35	37	37	34
14	32	28	35	42	36	37	38	39	35	37	40	34
15	32	28	35	42	36	37	38	39	35	37	39	34
16	32	28	35	44	36	37	38	39	35	37	37	34
17	32	28	34	47	36	37	38	39	35	37	37	34
18	32	32	34	44	36	37	38	39	35	37	37	34
19	32	37	35	44	36	37	38	40	35	37	37	34
20	32	37	35	42	36	37	39	40	35	37	36	34
21	32	37	36	40	36	37	39	40	35	37	36	17
22	32	36	36	40	36	38	39	40	35	37	36	8.9
23	31	36	37	42	36	38	39	41	35	37	36	8.9
24	31	36	37	45	36	38	39	41	35	37	36	8.9
25	31	36	37	42	36	37	39	41	36	37	36	22
26	31	35	37	43	36	37	39	41	36	37	36	35
27	31	35	37	45	36	37	39	41	36	37	36	35
28	31	35	37	43	36	37	39	41	36	37	36	35
29	30	35	37	66	------	37	39	41	36	36	37	34
30	30	34	37	28	------	37	39	41	36	36	37	36
31	30	------	37	32	------	37	------	40	------	36	35	------
TOTAL	996	953	1,117	1,256	1,007	1,145	1,144	1,229	1,063	1,143	1,154	928.7
MEAN	32.1	31.8	36.0	40.5	36.0	36.9	38.1	39.6	35.4	36.9	37.2	31.0
MAX	34	37	37	66	37	38	39	41	40	37	40	36
MIN	30	28	34	28	35	36	37	38	35	36	35	8.9
AC-FT	1,980	1,890	2,220	2,490	2,000	2,270	2,270	2,440	2,110	2,270	2,290	1,840
MEAN†	2,070	2,250	1,390	280	759	1,050	876	333	209	1,150	1,920	1,740
AC-FT†	127,400	133,700	85,170	17,230	42,150	64,500	52,140	20,490	12,420	70,670	117,900	103,800

CAL YR 1969 TOTAL 13,885.0 MEAN 38.0 MAX 81 MIN 28 AC-FT 27,540 MEAN† 1,180 AC-FT† 852,800
WTR YR 1970 TOTAL 13,135.7 MEAN 36.0 MAX 66 MIN 8.9 AC-FT 26,050 MEAN† 1,170 AC-FT† 847,600

† ADJUSTED FOR DIVERSION THROUGH BUTT VALLEY POWERHOUSE AND LEAKAGE FROM ALMANOR-BUTT CREEK TUNNEL NO. 1.

11400500 BUTT CREEK BELOW ALMANOR-BUTT CREEK TUNNEL, NEAR PRATTVILLE, CALIF.

LOCATION.--Lat 40°11'12", long 121°11'11", in NW¼NW¼ sec.22, T.27 N., R.7 E., Plumas County, on right bank 400 ft downstream from outlet of old tunnel from Lake Almanor to Butt Creek and 2.2 miles southwest of Prattville.

DRAINAGE AREA.--69.3 sq mi (revised).

PERIOD OF RECORD.--October 1936 to September 1959, October 1964 to September 1970. Published as "below Tunnel No. 1" 1938-40. Records for water years 1937-38 published in WSP 1515.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 4,400 ft (from topographic map). Prior to Oct. 5, 1937, at site 200 ft downstream at datum 4 ft lower.

AVERAGE DISCHARGE (NATURAL FLOW OF BUTT CREEK).--34 years (including records for station 11400000 Butt Creek above Almanor-Butt Creek tunnel, near Prattville for water years 1960-64), 80.9 cfs (58,610 acre-ft per year), adjusted for leakage from Almanor-Butt Creek tunnel No. 1.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	June 12, 1966	1,670	3.86	Sept. 3, 1966	48
1967	May 23, 1967	758	2.62	Oct. 4, 5, 1966	51
1968	Feb. 23, 1968	447	2.04	Sept. 8, 9, 1968	38
1969	Jan. 20, 1969	1,190	3.20	Oct. 1, 1968	41
1970	Jan. 24, 1970	2,880	4.98	Several days	50

Period of record: Maximum discharge, 3,830 cfs Dec. 23, 1964 (gage height, 5.87 ft), from rating curve extended above 1,400 cfs; minimum daily, 30 cfs Dec. 1, 2, 1936.

REMARKS.--No regulation above station. Wallack ditch, above station, diverts several cubic feet per second during each irrigation season into Yellow Creek basin. Leakage from Almanor-Butt Creek tunnel No. 1 for the water years 1966-70 is as follows: 16,400; 13,390; 7,000; 6,890; and 7,300 acre-ft, respectively. See schematic diagram of North Fork Feather River basin elsewhere in this report.

COOPERATION.--Gage-height record and 28 discharge measurements for the water years 1966-67 furnished by Pacific Gas & Electric Co., in connection with a Federal Power Commission project; records for the water years 1968-70 collected by Pacific Gas & Electric Co., under general supervision of the Geological Survey, in connection with a Federal Power Commission project.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	482	85	74	74	74	198	127	71	55	51	51
2	76	472	81	76	74	74	206	125	71	54	50	50
3	76	472	83	78	74	72	198	132	69	54	50	48
4	78	472	81	76	79	74	179	139	68	54	50	50
5	78	472	81	79	83	72	181	146	68	54	50	50
6	78	477	81	88	83	74	187	141	69	54	50	50
7	78	487	81	90	78	78	187	136	74	54	50	50
8	78	348	81	92	76	81	176	136	72	54	51	50
9	78	74	79	90	79	85	184	146	69	55	51	50
10	76	72	79	87	74	98	268	151	68	55	51	50
11	76	72	79	85	74	100	215	136	66	55	51	51
12	76	87	79	83	72	98	204	127	85	57	52	51
13	76	99	79	79	72	146	179	123	68	58	52	51
14	76	192	76	79	72	144	176	119	66	58	52	52
15	182	153	76	78	72	130	179	112	66	57	51	51
16	482	100	75	78	72	114	192	108	69	55	51	51
17	491	184	75	76	72	104	209	104	64	55	51	51
18	506	233	74	78	72	102	187	104	63	55	51	52
19	530	141	74	76	72	102	163	102	63	54	52	52
20	540	114	73	72	71	98	153	104	61	54	51	51
21	324	100	72	71	71	98	148	100	61	54	51	51
22	487	92	72	79	71	100	144	131	61	52	51	50
23	491	100	71	76	74	100	144	87	61	52	51	50
24	501	106	71	78	76	106	146	85	60	52	50	52
25	496	100	71	78	74	114	151	81	60	51	50	54
26	487	92	76	74	76	123	144	78	60	51	50	54
27	487	90	78	76	76	134	139	76	60	50	50	54
28	482	87	76	74	74	148	134	76	60	50	50	54
29	487	87	74	74	------	163	132	72	58	50	50	54
30	487	87	79	76	------	176	127	71	57	50	50	54
31	491	------	78	74	------	187	------	72	------	52	51	------
TOTAL	9,029	6,144	2,390	2,444	2,087	3,369	5,230	3,447	1,968	1,665	1,572	1,539
MEAN	291	205	77.1	78.8	74.5	109	174	111	65.6	53.7	50.7	51.3
MAX	540	487	85	92	83	187	268	151	85	58	52	54
MIN	76	72	71	71	71	72	127	71	57	50	50	48
AC-FT	17,910	12,190	4,740	4,850	4,140	6,680	10,370	6,840	3,900	3,300	3,120	3,050

CAL YR 1965 TOTAL 54,329 MEAN 149 MAX 540 MIN 71 AC-FT 107,800
WTR YR 1966 TOTAL 40,884 MEAN 112 MAX 540 MIN 48 AC-FT 81,090

11400500 BUTT CREEK BELOW ALMANOR-BUTT CREEK TUNNEL, NEAR PRATTVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	55	148	66	193	94	124	99	307	112	63	54
2	52	55	135	65	164	90	119	110	264	106	63	54
3	52	55	125	68	145	94	121	122	247	103	63	54
4	51	54	111	68	138	86	118	135	254	100	63	55
5	51	54	145	66	130	88	114	144	254	97	63	55
6	52	66	133	66	123	88	113	168	244	96	64	56
7	52	65	111	69	121	92	111	232	253	90	64	56
8	54	61	105	66	116	98	112	330	248	91	64	55
9	54	57	98	61	113	105	117	387	257	89	63	55
10	54	57	94	60	111	113	118	352	247	86	63	55
11	54	61	94	60	111	103	112	278	250	84	63	55
12	54	77	98	60	116	103	112	252	258	82	62	55
13	54	66	103	60	123	116	119	275	244	82	62	55
14	54	65	105	60	123	116	117	319	224	80	62	54
15	54	88	92	60	116	102	112	383	218	79	62	54
16	54	150	86	60	111	265	108	464	216	83	61	55
17	55	73	84	61	115	296	108	535	214	80	61	56
18	54	65	80	60	112	226	110	570	255	76	61	58
19	54	140	80	63	108	191	104	535	276	74	60	58
20	55	273	79	68	106	178	100	548	222	73	59	57
21	55	118	75	116	104	188	104	635	202	71	58	56
22	55	90	77	173	96	189	98	635	185	70	58	56
23	55	79	77	140	94	238	95	658	171	69	57	56
24	55	73	75	113	94	191	97	650	161	69	57	56
25	55	69	73	107	94	171	97	566	152	67	58	56
26	55	69	69	98	92	158	96	509	141	67	59	55
27	55	68	69	103	92	154	100	467	133	67	57	55
28	55	86	77	184	90	155	95	428	129	66	56	55
29	55	135	73	458	------	142	92	396	123	65	56	55
30	55	98	69	315	------	136	94	360	118	65	56	55
31	55	------	68	238	------	132	------	329	------	64	54	------
TOTAL	1,671	2,522	2,908	3,312	3,251	4,498	3,237	11,871	6,467	2,503	1,872	1,661
MEAN	53.9	84.1	93.8	107	116	145	108	383	216	80.7	60.4	55.4
MAX	55	273	148	458	193	296	124	658	307	112	64	58
MIN	51	54	68	60	90	86	92	99	118	64	54	54
AC-FT	3,310	5,000	5,770	6,570	6,450	8,920	6,420	23,550	12,830	4,960	3,710	3,290

CAL YR 1966 TOTAL 30,422 MEAN 83.3 MAX 273 MIN 48 AC-FT 60,340
WTR YR 1967 TOTAL 45,773 MEAN 125 MAX 658 MIN 51 AC-FT 90,790

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	55	58	65	66	160	188	133	77	50	45	39
2	81	55	61	60	68	149	168	133	73	50	43	39
3	75	55	61	68	79	146	160	133	73	50	42	41
4	58	55	68	71	71	146	162	133	73	50	42	39
5	58	55	81	70	68	151	160	126	75	49	41	41
6	58	55	68	68	68	143	151	119	77	49	41	39
7	60	55	65	66	65	136	151	116	73	48	41	39
8	60	55	68	63	65	131	151	114	71	48	39	38
9	60	55	77	60	66	121	157	112	68	48	41	38
10	58	55	71	49	66	116	168	110	66	46	41	39
11	58	55	68	55	66	112	179	112	66	45	39	39
12	58	55	68	56	68	107	179	107	65	43	39	39
13	58	55	68	58	70	110	162	119	63	43	41	39
14	56	66	68	71	66	107	157	105	63	43	41	41
15	56	58	68	198	65	105	160	97	63	43	41	39
16	56	56	65	136	65	110	151	95	61	45	42	39
17	56	55	63	97	77	103	138	95	60	43	42	39
18	56	56	61	85	88	97	133	92	58	43	42	39
19	56	97	61	75	107	95	133	99	58	43	49	39
20	56	70	61	70	291	95	126	114	58	43	53	41
21	58	63	61	66	318	97	121	101	56	43	52	41
22	58	60	60	65	280	99	116	101	56	42	48	41
23	58	58	60	65	377	105	116	110	56	42	45	39
24	56	56	60	63	287	110	116	105	55	43	42	39
25	56	56	60	63	226	126	119	99	55	43	42	39
26	56	55	60	65	198	124	121	92	55	42	42	39
27	56	56	61	65	188	121	124	88	53	42	41	39
28	56	58	61	66	179	136	126	86	52	42	41	39
29	56	56	60	46	168	157	128	85	52	42	42	39
30	55	60	61	41	------	179	133	83	50	43	41	39
31	55	------	65	63	------	194	------	81	------	43	39	------
TOTAL	1,809	1,751	1,998	2,209	3,866	3,888	4,354	3,295	1,881	1,389	1,320	1,180
MEAN	58.4	58.4	64.5	71.3	133	125	145	106	62.7	44.8	42.6	39.3
MAX	81	97	81	198	377	194	188	133	77	50	53	41
MIN	55	55	58	41	65	95	116	81	50	42	39	38
AC-FT	3,590	3,470	3,960	4,380	7,670	7,710	8,640	6,540	3,730	2,760	2,620	2,340

CAL YR 1967 TOTAL 44,230 MEAN 121 MAX 658 MIN 54 AC-FT 87,730
WTR YR 1968 TOTAL 28,940 MEAN 79.1 MAX 377 MIN 38 AC-FT 57,400

11400500 BUTT CREEK BELOW ALMANOR-BUTT CREEK TUNNEL, NEAR PRATTVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	48	52	53	128	74	231	369	221	82	59	52
2	42	56	46	55	116	72	204	357	211	80	59	52
3	43	60	48	53	119	72	180	333	201	80	59	52
4	42	56	48	53	121	72	177	313	195	80	59	52
5	43	50	52	53	105	72	217	340	186	78	59	52
6	43	49	49	52	103	72	183	390	177	80	59	52
7	43	48	49	53	97	74	165	415	165	78	59	52
8	42	48	52	52	92	74	165	446	162	76	59	52
9	42	48	55	50	99	70	168	488	174	76	59	52
10	42	48	136	61	110	74	171	511	154	74	59	52
11	48	53	99	52	141	76	195	521	165	72	57	52
12	70	103	71	55	131	72	217	516	148	70	57	50
13	66	58	65	65	116	68	214	502	140	70	57	50
14	58	53	65	90	107	64	214	446	137	68	55	50
15	52	53	61	83	105	66	211	402	140	66	55	50
16	49	56	68	71	103	66	227	390	129	66	55	50
17	48	53	63	63	97	70	254	394	124	66	55	52
18	46	79	61	65	92	76	305	390	143	66	53	52
19	46	66	58	110	89	78	302	369	143	68	53	52
20	45	58	55	522	87	78	321	344	122	66	53	52
21	45	55	55	738	84	76	369	333	114	66	53	52
22	45	53	55	322	87	82	411	329	107	66	53	50
23	45	53	53	243	84	93	411	336	105	66	53	50
24	45	56	55	210	82	95	317	325	102	64	53	50
25	45	55	56	204	82	100	279	309	98	62	53	50
26	45	52	55	512	82	107	272	290	98	61	53	50
27	45	50	56	291	82	114	279	276	93	61	53	50
28	45	50	58	217	82	135	313	251	91	61	53	52
29	52	50	56	194	------	156	369	241	89	61	53	52
30	60	52	55	171	------	180	377	241	84	59	53	52
31	50	------	53	154	------	224	------	234	------	59	52	------
TOTAL	1,473	1,669	1,860	4,967	2,823	2,802	7,718	11,401	4,218	2,148	1,722	1,538
MEAN	47.5	55.6	60.0	160	101	90.4	257	368	141	69.3	55.5	51.3
MAX	70	103	136	738	141	224	411	521	221	82	59	52
MIN	41	48	46	50	82	64	165	234	84	59	52	50
AC-FT	2,920	3,310	3,690	9,850	5,600	5,560	15,310	22,610	8,370	4,260	3,420	3,050

CAL YR 1968 TOTAL 28,384 MEAN 77.6 MAX 377 MIN 38 AC-FT 56,300
WTR YR 1969 TOTAL 44,339 MEAN 121 MAX 738 MIN 41 AC-FT 87,950

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	55	52	87	208	208	120	100	91	67	51	51
2	52	55	52	76	187	159	119	102	89	62	51	51
3	50	55	53	70	178	141	119	108	89	61	51	51
4	50	55	52	74	170	138	117	115	85	61	51	53
5	52	105	52	66	159	136	117	117	85	59	51	53
6	52	74	53	68	151	134	119	117	84	59	51	53
7	52	74	52	80	146	154	119	117	80	59	50	53
8	55	76	53	82	141	196	117	122	82	59	50	51
9	53	64	53	154	138	159	117	134	85	57	50	51
10	52	61	55	221	136	154	119	159	98	56	50	51
11	52	61	68	140	138	143	119	134	84	56	50	51
12	52	61	204	148	199	146	117	126	80	56	50	51
13	53	61	174	298	173	151	119	124	82	56	50	51
14	57	59	98	526	156	170	115	117	91	56	50	51
15	82	59	87	336	149	167	110	119	82	56	50	51
16	95	59	74	679	146	162	113	124	82	54	50	51
17	82	57	70	712	149	159	110	131	76	54	50	50
18	66	55	70	474	141	146	106	131	72	54	50	50
19	61	57	251	402	131	140	119	129	71	54	51	51
20	59	55	251	377	126	138	108	124	71	54	51	51
21	59	55	446	923	124	138	104	119	69	54	51	51
22	57	55	208	1,210	124	138	102	119	67	54	51	51
23	57	55	151	1,400	122	138	100	117	66	54	51	51
24	57	55	195	1,330	122	141	98	115	66	53	51	50
25	57	55	221	622	119	141	100	113	66	53	51	50
26	57	53	162	487	122	138	113	110	66	53	51	50
27	57	53	129	622	122	134	108	110	71	53	51	50
28	57	53	107	380	156	134	102	106	74	51	51	50
29	55	53	100	309	------	131	100	102	78	51	51	50
30	55	53	95	273	------	129	100	98	67	51	51	50
31	55	------	87	233	------	124	------	91	------	51	51	------
TOTAL	1,802	1,798	3,775	12,859	4,133	4,587	3,346	3,650	2,349	1,728	1,569	1,529
MEAN	58.1	59.9	122	415	148	148	112	118	78.3	55.7	50.6	51.0
MAX	95	105	446	1,400	208	208	120	159	98	67	51	53
MIN	50	53	52	66	119	124	98	91	66	51	50	50
AC-FT	3,570	3,570	7,490	25,510	8,200	9,100	6,640	7,240	4,660	3,430	3,110	3,030

CAL YR 1969 TOTAL 46,712 MEAN 128 MAX 738 MIN 50 AC-FT 92,650
WTR YR 1970 TOTAL 43,125 MEAN 118 MAX 1,400 MIN 50 AC-FT 85,540

11401112 NORTH FORK FEATHER RIVER BELOW BELDEN DAM, CALIF.

LOCATION.--Lat 40°04'18", long 121°09'46", in SE¼SW¼ sec.26, T.26 N., R.7 E., Plumas County, Plumas National Forest, on left bank 0.2 mile downstream from Belden Dam, 0.4 mile upstream from Deadwood Canyon, and 6.2 miles northeast of Beldin.

DRAINAGE AREA.--612 sq mi.

PERIOD OF RECORD.--October 1969 to September 1970. July 1959 to September 1969 in files of Pacific Gas & Electric Co.

GAGE.--Water-stage recorder. Datum of gage is 2,811.00 ft above mean sea level.

EXTREMES.--Maximum discharge during water year 1970, 1,870 cfs Mar. 9 (gage height, 7.46 ft); minimum daily, 56 cfs May 20.

REMARKS.--Flow regulated by Belden Reservoir 0.2 mile upstream, Lake Almanor (see station 11399000), Butt Valley Reservoir, and Mountain Meadows Reservoir (combined capacity, 1,104,260 acre-ft). Diversion through tunnel to Belden powerhouse began Aug. 27, 1969. See schematic diagram of North Fork Feather River basin elsewhere in this report.

COOPERATION.--Records collected by Pacific Gas & Electric Co., under general supervision of the Geological Survey, in connection with a Federal Power Commission project.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	75	91	93	87	90	97	87	147	167	169	158
2	74	75	92	93	193	86	96	88	167	171	173	158
3	75	76	93	94	201	85	94	90	165	171	175	158
4	73	75	93	92	210	90	90	87	167	581	175	162
5	75	77	93	93	302	87	90	86	165	615	173	160
6	78	82	93	93	608	87	88	87	169	171	173	160
7	80	80	92	93	592	91	87	71	162	171	175	162
8	76	80	91	93	836	105	86	61	163	175	171	162
9	75	84	92	92	917	428	87	63	165	173	173	163
10	75	86	92	92	926	94	87	63	160	173	173	163
11	75	88	93	92	897	98	88	61	169	167	173	163
12	74	91	93	91	512	93	87	60	171	175	177	163
13	75	93	93	91	261	96	82	60	167	167	175	163
14	75	92	93	96	144	100	85	60	171	167	177	163
15	76	92	94	93	88	97	85	60	171	169	175	163
16	76	90	92	91	83	97	86	58	169	175	175	165
17	74	75	94	92	86	97	85	59	167	171	171	167
18	69	74	94	90	90	100	87	60	165	171	175	167
19	71	75	94	88	90	96	88	58	165	171	173	167
20	73	77	88	91	87	96	87	56	167	171	175	167
21	73	78	86	94	88	97	83	59	171	173	175	165
22	73	80	86	97	85	96	83	61	169	175	173	163
23	74	80	87	96	88	97	87	60	171	173	169	162
24	75	82	88	102	88	96	85	59	165	171	171	158
25	75	83	85	98	90	100	84	59	167	169	173	149
26	75	85	84	88	92	100	85	59	169	171	173	162
27	75	86	85	85	91	97	87	60	169	173	171	154
28	74	88	91	79	90	98	86	59	167	173	171	151
29	74	88	94	82	------	98	87	59	167	175	171	156
30	75	90	93	80	------	93	87	60	165	177	169	158
31	74	------	93	78	------	93	------	60	------	175	167	------
TOTAL	2,352	2,477	2,822	2,822	7,922	3,278	2,616	2,030	4,992	6,177	5,359	4,832
MEAN	75.9	82.6	91.0	91.0	283	106	87.2	65.5	166	199	173	161
MAX	116	93	94	102	926	428	97	90	171	615	177	167
MIN	69	74	84	78	83	85	82	56	147	167	167	149
AC-FT	4,670	4,910	5,600	5,600	15,710	6,500	5,190	4,030	9,900	12,250	10,630	9,580

CAL YR 1969 TOTAL 290,953 MEAN 797 MAX 2,840 MIN 69 AC-FT 577,100
WTR YR 1970 TOTAL 47,679 MEAN 131 MAX 926 MIN 56 AC-FT 94,570

11401120 ANTELOPE LAKE NEAR TAYLORSVILLE, CALIF.

LOCATION.--Lat 40°10'48", long 120°36'25", in SE¼ sec.22, T.27 N., R.12 E., Plumas County, in control house at toe of Antelope Dam on Indian Creek, 1.3 miles south of Boulder Creek guard station, 12 miles northeast of Genesee, and 13.9 miles northeast of Taylorsville.

DRAINAGE AREA.--68.6 sq mi.

PERIOD OF RECORD.--October 1966 to September 1970. November 1963 to September 1966, published in reports of California Department of Water Resources.

GAGE.--Water-stage recorder in control house at toe of Antelope Dam. Datum of gage is at mean sea level (levels by California Department of Water Resources).

EXTREMES.--Maximums and minimums (contents in acre-feet, elevation in feet) for the waters 1967-70 are contained in the following table:

	Maximum			Minimum		
Wtr yr	Date	Contents	Elevation	Date	Contents	Elevation
1967	May 23, 1967	24,857	5,004.45	Nov. 14, 1966	17,504	4,996.23
1968	Feb. 24, 1968	23,531	5,003.08	Sept.30, 1968	19,411	4,998.53
1969	May 11, 1969	24,578	5,004.11	Oct. 31, Nov. 1, 1968	18,987	4,998.03
1970	Jan. 23, 1970	25,010	5,004.55	Sept.30, 1970	20,657	4,999.90

Period of record: Maximum contents, 25,010 acre-ft Jan. 23, 1970 (elevation, 5,004.55 ft); minimum, 17,504 acre-ft Nov. 14, 1966 (elevation, 4,996.23 ft).

REMARKS.--Reservoir is formed by a rockfill dam. Storage began November 1963. Capacity, 22,239 acre-ft between elevations 4,950 (lip of intake tower) and 5,002 ft (crest of spillway).

COOPERATION.--Record of contents furnished by California Department of Water Resources.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1970

DATE	ELEVATION (FEET)	CONTENTS (ACRE-FEET)	CHANGE IN CONTENTS (ACRE-FEET)	DATE	ELEVATION (FEET)	CONTENTS (ACRE-FEET)	CHANGE IN CONTENTS (ACRE-FEET)
OCT. 31, 1966......	4,996.42	17,658	-818	OCT. 31, 1968......	4,998.03	18,987	-424
NOV. 30............	4,996.81	17,974	+316	NOV. 30............	4,998.31	19,224	+237
DEC. 31............	4,997.54	18,576	+602	DEC. 31............	4,998.81	19,652	+428
CAL YR 1966......	-	-	+2,420	CAL YR 1968......	-	-	-2,114
JAN. 31, 1967......	4,999.14	19,937	+1,361	JAN. 31, 1969......	5,002.68	23,151	+3,499
FEB. 28............	5,000.98	21,574	+1,637	FEB. 28............	5,002.43	22,968	-236
MAR. 31............	5,002.72	23,189	+1,615	MAR. 31............	5,003.34	23,833	+865
APR. 30............	5,002.58	23,056	-133	APR. 30............	5,003.69	24,170	+337
MAY 31............	5,003.72	24,145	+1,089	MAY 31............	5,002.99	23,498	-672
JUNE 30............	5,002.65	23,122	-1,023	JUNE 30............	5,002.39	22,931	-567
JULY 31............	5,002.15	22,653	-469	JULY 31............	5,001.99	22,557	-374
AUG. 31............	5,001.61	22,152	-501	AUG. 31............	5,001.23	21,855	-702
SEPT.30............	5,000.98	21,574	-578	SEPR.30............	5,000.47	21,166	-689
WTR YR 1967......	-	-	+3,098	WTR YR 1969......	-	-	+1,755
OCT. 31............	5,000.77	21,348	-190	OCT. 31............	5,000.35	21,058	-108
NOV. 30............	5,000.85	21,456	+72	NOV. 30............	5,000.32	21,031	-27
DEC. 31............	5,001.19	21,766	+310	DEC. 31............	5,001.95	22,519	+1,488
CAL YR 1967......	-	-	+3,190	CAL YR 1969......	-	-	+2,867
JAN. 31, 1968......	5,002.21	22,709	+943	JAN. 31, 1970......	5,002.94	23,451	+932
FEB. 29............	5,002.86	23,321	+612	FEB. 28............	5,002.64	23,166	-285
MAR. 31............	5,002.77	23,236	-85	MAR. 31............	5,002.80	23,318	+152
APR. 30............	5,002.71	23,179	-57	APR. 30............	5,002.72	23,242	-76
MAY 31............	5,002.16	22,662	-517	MAY 31............	5,002.68	23,204	-38
JUNE 30............	5,001.34	21,903	-759	JUNE 30............	5,002.32	22,865	-339
JULY 31............	5,000.31	20,970	-933	JULY 31............	5,001.65	22,241	-624
AUG. 31............	4,999.46	20,217	-753	AUG. 31............	5,000.72	21,391	-850
SEPT.30............	4,998.53	19,411	-806	SEPT.30............	4,999.90	20,657	-734
WTR YR 1968......	-	-	-2,163	WTR YR 1970......	-	-	-509

† ELEVATION AT 2400 HOURS.

11401125 INDIAN CREEK NEAR BOULDER CREEK GUARD STATION, NEAR TAYLORSVILLE, CALIF.

LOCATION.--Lat 40°10'42", long 120°36'35", in SE¼ sec.22, T.27 N., R.12 E., Plumas County, on left bank 150 ft downstream from Antelope Dam, 1.0 mile upstream from Cold Stream, 2.2 miles south of Boulder Creek guard station, 12.1 miles northeast of Genesee, and 17.1 miles northeast of Taylorsville.

DRAINAGE AREA.--68.6 sq mi. Area at site used prior to Oct. 1, 1968, 70.8 sq mi.

PERIOD OF RECORD.--October 1965 to September 1970. June 1961 to September 1965 in reports of California Department of Water Resources.

GAGE.--Water-stage recorder and steel-lipped weir. Supplementary water-stage recorder on dam and concrete spillway. Altitude of gage is 4,930 ft (from topographic map). Oct. 1, 1965, to Sept. 30, 1968, at site 0.9 mile downstream at different datum.

AVERAGE DISCHARGE.--5 years, 74.0 cfs (53,600 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Apr. 6, 1966	142	4.73	Sept.14-18, 1966	3.7
1967	May 24, 1967	828	6.31	Many days	10
1968	Feb. 24, 1968	215	5.01	Sept. 3, 1968	7.5
1969	May 11, 12, 1969	a547	-	Oct. 4, 1968	8.8
1970	Jan. 24, 1970	a828	-	Many days	10

a Includes flow over spillway.

Period of record: Maximum discharge, 828 cfs May 24, 1967 (gage height, 6.31 ft, former site and datum), Jan. 24, 1970 (includes flow over spillway); minimum daily, 3.7 cfs Sept. 14-18, 1966.

REMARKS.--Since Nov. 25, 1963, flow regulated by Antelope Lake (capacity, 22,500 acre-ft) and since 1929, storage in Taylor Lake (capacity, 380 acre-ft). Some diversions for irrigation upstream. See schematic diagram of North Fork Feather River basin elsewhere in this report. Records since October 1968 are combined flow of release from Antelope Dam and flow over spillway.

COOPERATION.--Records furnished by California Department of Water Resources and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	9.8	9.8	9.8	9.8	10	11	77	17	14	9.9	9.8
2	10	9.8	9.8	9.8	9.8	10	11	76	21	9.8	9.9	9.8
3	10	9.8	9.8	9.8	9.8	10	11	74	21	9.8	9.8	9.8
4	10	9.8	9.8	9.8	9.8	10	11	72	20	9.8	9.7	9.8
5	10	9.8	9.8	9.8	9.8	10	11	75	20	9.7	9.7	9.8
6	10	9.8	9.8	9.8	10	10	23	70	20	9.8	9.7	9.8
7	10	9.8	9.8	9.8	10	10	23	64	20	9.8	9.7	9.8
8	10	10	9.8	10	10	11	27	60	20	9.7	9.7	9.8
9	10	9.8	9.8	10	10	11	23	58	20	9.7	9.8	9.8
10	10	9.8	9.8	10	10	11	24	72	20	9.7	9.7	9.8
11	10	9.8	9.8	10	10	11	23	65	20	9.7	9.7	9.8
12	10	9.8	9.8	10	10	11	23	56	20	9.7	9.7	9.8
13	10	9.8	9.8	10	9.8	12	22	48	20	9.5	9.8	7.4
14	11	10	9.8	10	9.8	12	22	43	20	9.4	9.8	3.7
15	11	9.8	9.8	10	9.8	12	36	38	20	9.4	9.8	3.7
16	11	9.8	9.8	10	9.8	11	58	34	20	9.4	9.7	3.7
17	11	11	9.8	9.8	10	11	86	30	20	9.4	9.8	3.7
18	11	11	9.8	9.8	10	11	113	27	20	9.4	9.8	3.7
19	11	10	9.8	9.8	10	11	114	25	20	9.3	9.9	7.8
20	11	10	9.8	9.8	10	11	104	23	20	9.2	10	11
21	11	9.8	9.8	9.8	10	11	100	21	20	9.2	10	11
22	11	9.8	9.8	9.8	10	11	96	19	20	9.4	10	11
23	11	10	9.8	9.8	10	11	94	17	20	9.5	9.9	11
24	11	10	9.8	9.8	10	11	98	18	20	9.5	9.8	11
25	11	10	9.8	9.8	10	11	106	19	20	9.4	9.8	11
26	11	10	9.8	9.8	10	11	99	17	20	9.5	9.8	10
27	11	10	9.8	9.8	10	11	89	17	20	9.6	9.8	10
28	10	10	9.8	9.8	10	11	84	18	20	9.7	9.8	10
29	10	9.8	9.8	9.8	------	11	81	16	20	9.7	9.8	10
30	10	9.8	9.8	9.8	------	12	79	15	20	9.8	9.8	10
31	10	------	9.8	9.8	------	12	------	13	------	9.7	9.8	------
TOTAL	324	298.4	303.8	305.6	278.2	339	1,702	1,277	599	301.2	303.9	267.3
MEAN	10.5	9.95	9.80	9.86	9.94	10.9	56.7	41.2	20.0	9.72	9.80	8.91
MAX	11	11	9.8	10	10	12	114	77	21	14	10	11
MIN	10	9.8	9.8	9.8	9.8	10	11	13	17	9.2	9.7	3.7
AC-FT	643	592	603	606	552	672	3,380	2,530	1,190	597	603	530

WTR YR 1966 TOTAL 6,299.4 MEAN 17.3 MAX 114 MIN 3.7 AC-FT 12,490

11401125 INDIAN CREEK NEAR BOULDER CREEK GUARD STATION, NEAR TAYLORSVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	11	11	11	12	12	91	57	362	76	17	12
2	10	10	11	11	12	12	82	60	321	70	16	12
3	10	10	11	11	12	12	79	67	305	65	15	12
4	10	10	11	11	12	12	77	76	313	58	14	12
5	10	10	12	11	12	12	74	89	345	54	14	12
6	10	11	12	11	12	12	74	106	358	49	13	12
7	10	11	11	11	12	12	74	136	337	48	12	12
8	10	11	11	11	12	12	73	187	337	44	12	12
9	10	10	11	11	12	12	74	248	329	42	12	12
10	11	10	11	11	12	12	81	290	333	45	11	12
11	11	10	11	11	12	12	77	261	317	45	11	12
12	11	10	11	11	12	16	76	227	325	42	11	12
13	11	10	11	11	12	26	77	205	345	40	11	12
14	11	10	11	11	12	34	82	208	309	36	11	12
15	11	11	11	11	12	34	79	238	282	34	11	12
16	11	11	11	11	12	68	74	309	261	42	11	12
17	11	10	11	11	12	128	76	403	248	47	11	12
18	11	10	11	11	12	153	84	488	232	42	13	12
19	11	11	11	11	12	149	77	537	215	37	11	12
20	11	11	11	11	12	137	71	560	198	34	11	11
21	11	11	11	14	12	130	68	615	182	31	11	12
22	11	11	11	13	11	134	65	726	167	28	11	12
23	11	11	11	12	11	145	62	769	151	26	11	12
24	11	11	11	12	11	147	65	783	139	24	11	12
25	11	11	11	12	11	136	64	726	126	23	11	12
26	11	11	11	12	11	125	62	633	116	22	11	12
27	11	11	11	12	11	114	62	566	106	20	11	12
28	11	11	11	12	11	112	61	515	98	20	11	12
29	11	11	11	16	------	110	60	462	89	20	12	12
30	11	11	11	14	------	104	58	413	81	19	12	12
31	11	------	11	13	------	98	------	385	------	18	12	------
TOTAL	332	318	343	362	329	2,232	2,179	11,345	7,327	1,201	372	359
MEAN	10.7	10.6	11.1	11.7	11.8	72.0	72.6	366	244	38.7	12.0	12.0
MAX	11	11	12	16	12	153	91	783	362	76	17	12
MIN	10	10	11	11	11	12	58	57	81	18	11	11
AC-FT	659	631	680	718	653	4,430	4,320	22,500	14,530	2,380	738	712

CAL YR 1966 TOTAL 6,366.2 MEAN 17.4 MAX 114 MIN 3.7 AC-FT 12,630
WTR YR 1967 TOTAL 26,699.0 MEAN 73.1 MAX 783 MIN 10 AC-FT 52,960

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	11	12	12	23	143	134	95	25	14	9.8	9.5
2	13	11	12	12	25	133	128	97	23	10	9.8	9.5
3	12	11	12	12	28	126	118	97	22	10	9.8	7.5
4	11	11	12	12	28	122	111	95	21	10	9.8	9.5
5	11	11	13	12	28	123	108	92	21	10	9.8	9.5
6	11	11	12	12	27	116	102	85	23	10	9.8	9.3
7	11	11	12	12	27	107	97	78	24	10	9.8	9.2
8	11	11	12	12	26	103	94	72	23	10	9.8	9.2
9	11	11	12	12	27	95	96	67	22	10	9.8	9.2
10	11	11	12	13	29	86	105	62	21	10	9.8	9.2
11	11	11	12	13	30	79	120	60	21	10	9.8	9.2
12	11	11	12	13	31	76	132	57	20	9.4	9.8	9.2
13	11	11	12	13	32	79	128	54	20	10	9.8	9.2
14	11	11	13	13	32	75	123	52	19	10	9.8	9.2
15	11	11	12	13	33	71	123	49	19	10	9.8	9.2
16	11	11	12	13	33	75	121	46	19	10	10	9.2
17	11	11	12	13	34	75	111	43	19	10	9.5	9.2
18	11	12	12	13	38	69	99	41	19	10	9.5	9.2
19	11	12	12	13	46	63	94	40	19	10	9.7	9.2
20	11	12	12	13	71	59	89	39	19	10	9.6	9.2
21	11	12	12	13	118	59	83	37	19	10	9.6	9.2
22	11	11	12	13	151	59	77	49	19	10	9.6	9.2
23	11	11	12	13	183	58	74	55	19	10	9.5	9.2
24	11	11	12	13	208	60	74	51	19	10	9.5	9.3
25	11	11	12	13	191	68	75	45	19	10	9.5	9.5
26	11	12	12	13	176	74	78	41	19	10	9.5	9.5
27	11	12	12	13	166	72	83	37	19	9.9	9.5	9.5
28	11	12	12	13	158	73	84	34	19	9.8	9.5	9.5
29	11	12	12	14	151	81	84	30	19	9.8	9.5	9.5
30	11	12	12	18	------	101	89	28	19	9.8	9.5	9.5
31	11	------	12	21	------	121	------	27	------	9.8	9.5	------
TOTAL	346	339	374	408	2,150	2,701	3,034	1,755	609	312.5	300.0	277.5
MEAN	11.2	11.3	12.1	13.2	74.1	87.1	101	56.6	20.3	10.1	9.68	9.25
MAX	13	12	13	21	208	143	134	97	25	14	10	9.5
MIN	11	11	12	12	23	58	74	27	19	9.4	9.5	7.5
AC-FT	686	672	742	809	4,260	5,360	6,020	3,480	1,210	620	595	550

CAL YR 1967 TOTAL 26,765.0 MEAN 73.3 MAX 783 MIN 11 AC-FT 53,090
WTR YR 1968 TOTAL 12,606.0 MEAN 34.4 MAX 208 MIN 7.5 AC-FT 25,000

11401125 INDIAN CREEK NEAR BOULDER CREEK GUARD STATION, NEAR TAYLORSVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	10	10	10	94	50	317	384	160	42	10	10
2	10	10	10	10	77	49	313	380	147	38	10	10
3	10	10	10	10	63	47	278	369	137	37	10	10
4	8.8	10	10	10	63	44	261	355	130	35	10	10
5	10	10	10	10	69	44	275	334	130	33	10	10
6	10	10	10	10	73	44	256	358	120	33	10	10
7	10	10	10	10	67	42	232	409	109	31	10	10
8	10	10	10	10	61	42	225	451	113	30	10	10
9	10	10	10	10	59	44	227	482	137	30	10	10
10	10	10	10	10	54	42	232	519	132	35	10	10
11	10	10	10	10	54	44	251	539	147	34	10	10
12	10	10	10	10	56	42	286	543	162	31	10	10
13	10	10	10	10	56	42	313	523	142	28	10	10
14	10	10	10	10	56	41	301	482	128	26	10	10
15	10	10	10	10	57	41	256	432	119	24	10	10
16	10	10	10	10	57	44	262	409	108	22	10	10
17	10	10	10	10	54	46	268	402	103	20	10	10
18	10	10	10	10	52	49	320	395	110	17	10	10
19	10	10	10	10	49	50	337	387	103	16	10	10
20	10	10	10	10	47	52	354	362	92	15	10	10
21	10	10	10	10	47	47	386	337	83	14	10	10
22	10	10	10	10	42	49	433	324	75	14	10	10
23	10	10	10	15	50	52	463	310	69	12	10	10
24	10	10	10	34	56	57	436	300	65	12	10	10
25	10	10	10	54	61	61	369	284	59	12	10	10
26	10	10	10	121	56	69	324	264	56	11	10	10
27	10	10	10	165	49	79	300	246	52	11	10	10
28	10	10	10	152	50	94	293	222	50	10	10	10
29	10	10	10	114	------	123	324	201	47	10	10	10
30	10	10	10	119	------	155	380	187	46	10	10	10
31	10	------	10	85	------	217	------	173	------	10	10	------
TOTAL	308.8	300	310	1,079	1,629	1,902	9,272	11,363	3,131	703	310	300
MEAN	9.96	10.0	10.0	34.8	58.2	61.4	309	367	104	22.7	10.0	10.0
MAX	10	10	10	165	94	217	463	543	162	42	10	10
MIN	8.8	10	10	10	42	41	225	173	46	10	10	10
AC-FT	613	595	615	2,140	3,230	3,770	18,390	22,540	6,210	1,390	615	595

CAL YR 1968 TOTAL 12,465.8 MEAN 34.1 MAX 208 MIN 7.5 AC-FT 24,730
WTR YR 1969 TOTAL 30,607.8 MEAN 83.9 MAX 543 MIN 8.8 AC-FT 60,710

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	10	10	10	155	99	121	110	94	33	10	10
2	10	10	10	10	133	101	121	114	88	31	10	10
3	10	10	10	10	123	97	121	130	81	28	10	10
4	10	10	10	10	114	92	121	147	77	26	10	10
5	10	10	10	10	110	88	123	168	73	24	10	10
6	10	10	10	10	106	85	135	175	71	22	10	10
7	10	10	10	10	103	88	140	181	65	20	10	10
8	10	10	10	10	101	103	142	181	59	17	10	10
9	10	10	10	12	101	106	142	181	57	15	10	10
10	10	10	10	29	101	106	150	203	59	14	10	10
11	10	10	10	33	101	99	157	203	61	12	10	10
12	10	10	10	38	108	94	155	197	59	12	10	10
13	10	10	10	46	117	99	150	194	61	12	10	10
14	10	10	10	73	117	112	145	186	63	11	10	10
15	10	10	10	79	108	130	140	183	63	11	10	10
16	10	10	10	106	108	135	130	186	57	10	10	10
17	10	10	10	189	114	137	121	197	57	10	10	10
18	10	10	10	208	108	133	119	206	56	10	10	10
19	10	10	10	186	101	126	117	206	52	10	10	10
20	10	10	10	168	92	119	119	194	49	10	10	10
21	10	10	10	208	88	119	112	177	46	10	10	10
22	10	10	10	533	85	119	106	168	42	10	10	10
23	10	10	10	595	85	123	103	165	38	10	10	10
24	10	10	10	766	85	130	99	152	35	10	10	10
25	10	10	10	529	83	140	99	145	33	10	10	10
26	10	10	10	386	83	142	106	137	33	10	10	10
27	10	10	10	340	85	137	108	130	33	10	10	10
28	10	10	10	268	88	135	108	125	33	10	10	10
29	10	10	10	211	------	133	108	121	33	10	10	10
30	10	10	10	189	------	133	108	110	33	10	10	10
31	10	------	10	162	------	128	------	101	------	10	10	------
TOTAL	310	300	310	5,434	2,903	3,588	3,726	5,073	1,661	448	310	300
MEAN	10.0	10.0	10.0	175	104	116	124	164	55.4	14.5	10.0	10.0
MAX	10	10	10	766	155	142	157	206	94	33	10	10
MIN	10	10	10	10	83	85	99	101	33	10	10	10
AC-FT	615	595	615	10,780	5,760	7,120	7,390	10,060	3,290	889	615	595

CAL YR 1969 TOTAL 30,609 MEAN 83.9 MAX 543 MIN 10 AC-FT 60,710
WTR YR 1970 TOTAL 24,363 MEAN 66.7 MAX 766 MIN 10 AC-FT 48,320

11401180 LITTLE GRIZZLY CREEK NEAR GENESEE, CALIF.

LOCATION.--Lat 40°00'50", long 120°45'11", in NE¼SW¼ sec.21, T.25 N., R.11 E., Plumas County, Plumas National Forest, on right bank 2 miles south of Genesee and 2.5 miles upstream from Indian Creek.

DRAINAGE AREA.--29.6 sq mi.

PERIOD OF RECORD.--August 1964 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 4,180 ft (from topographic map).

AVERAGE DISCHARGE.--6 years, 56.8 cfs (41,150 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (300 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
May 10, 1966	0300	*235	3.22	June 18, 1967	1845	451	4.06	May 12, 1969	1815	645	4.39
Jan. 21, 1967	1600	406	3.79	Feb. 20, 1968	0145	*333	3.71	Jan. 14, 1970	1130	307	3.56
Jan. 29, 1967	1800	705	4.51					Jan. 16, 1970	1400	508	4.15
Mar. 16, 1967	1945	358	3.65	Jan. 21, 1969	0015	*1,310	5.52	Jan. 24, 1970	0030	*1,800	6.15
May 23, 1967	1745	*876	4.96	Jan. 26, 1969	0500	588	4.27	Jan. 27, 1970	0430	352	3.63
June 9, 1967	2045	489	4.16	Apr. 22, 1969	2015	335	3.60				

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Sept.10, 11, 30, 1966	3.5	1969	Oct. 3, 4, 1968	4.9
1967	Oct. 1, 2, 11, 1966	3.7	1970	Sept.11, 12, 29, 30, 1970	6.5
1968	Sept. 7, 8, 12, 27, 1968	4.7			

Period of record: Maximum discharge, 1,800 cfs Jan. 24, 1970 (gage height, 6.15 ft), from rating curve extended above 500 cfs on basis of slope-area measurement at gage height, 5.90 ft; minimum daily, 3.5 cfs Sept. 10, 11, 30, 1966.

REMARKS.--Records good. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey. See schematic diagram of North Fork Feather River basin elsewhere in this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	6.4	10	8.6	9.8	12	111	93	29	8.9	5.0	4.2
2	7.7	6.2	9.8	9.2	9.5	12	113	100	27	8.9	4.8	4.0
3	7.7	6.2	9.8	8.3	9.5	11	106	109	26	8.9	4.6	3.8
4	7.7	6.2	10	12	9.8	11	96	127	24	8.6	4.5	3.8
5	7.7	6.2	11	15	10	11	100	147	24	8.3	4.5	3.8
6	7.7	6.2	11	20	11	14	108	137	24	8.0	4.3	3.8
7	7.7	6.4	10	20	11	14	114	127	24	7.7	4.3	3.7
8	7.4	12	11	19	11	15	113	127	22	7.7	4.3	3.7
9	7.4	8.6	10	19	11	22	108	137	21	7.7	4.3	3.7
10	7.4	7.4	10	16	10	38	121	176	19	8.0	4.2	3.5
11	7.4	7.4	9.8	15	10	36	103	147	17	7.7	4.2	3.5
12	7.4	8.3	9.5	13	10	33	90	120	16	7.7	4.2	3.8
13	7.7	8.3	9.2	13	10	62	83	108	16	7.4	4.2	4.2
14	8.0	18	8.0	12	10	61	82	96	16	7.1	4.2	4.3
15	8.3	13	8.0	12	10	48	87	86	16	7.1	4.2	4.0
16	7.7	10	8.0	12	10	37	108	79	15	6.9	4.0	3.8
17	7.7	25	7.7	12	10	30	136	72	14	6.6	4.2	3.7
18	7.7	39	9.2	12	10	27	137	66	13	6.6	4.0	4.0
19	7.7	21	8.6	11	10	27	109	62	13	6.2	3.8	4.5
20	7.7	16	8.9	11	11	26	92	60	13	6.4	3.8	4.2
21	7.4	13	9.8	12	11	26	86	57	13	6.0	3.8	3.8
22	7.4	12	8.9	12	12	25	82	53	13	6.0	3.8	3.7
23	7.1	12	7.7	11	13	24	83	49	13	6.0	3.8	3.7
24	6.9	14	8.3	10	14	27	92	46	12	5.5	3.8	3.7
25	6.9	13	10	10	14	31	104	42	11	5.5	3.7	3.7
26	6.9	13	8.0	10	13	36	114	40	11	5.3	3.8	3.7
27	6.9	12	8.0	9.8	13	43	103	38	10	4.8	4.2	3.7
28	6.6	10	9.2	9.5	12	53	96	35	9.8	4.8	4.0	3.7
29	6.4	11	11	9.8	---	64	92	33	9.5	4.8	4.0	3.7
30	6.4	10	9.2	10	---	72	90	32	9.2	5.0	4.2	3.5
31	6.4	---	8.9	10	---	86	---	31	---	5.5	4.3	---
TOTAL	228.7	357.8	288.5	384.2	305.6	1034	3059	2632	500.5	211.6	129.0	114.9
MEAN	7.38	11.9	9.31	12.4	10.9	33.4	102	84.9	16.7	6.83	4.16	3.83
MAX	8.3	39	11	20	14	86	137	176	29	8.9	5.0	4.5
MIN	6.4	6.2	7.7	8.3	9.5	11	82	31	9.2	4.8	3.7	3.5
AC-FT	454	710	572	762	606	2050	6070	5220	993	420	256	228

CAL YR 1965 TOTAL 24097.9 MEAN 66.0 MAX 434 MIN 6.2 AC-FT 47800
WTR YR 1966 TOTAL 9245.8 MEAN 25.3 MAX 176 MIN 3.5 AC-FT 18340

11401180 LITTLE GRIZZLY CREEK NEAR GENESEE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	4.3	38	11	90	25	44	29	269	110	18	11
2	3.7	4.3	47	10	65	26	41	32	223	99	18	11
3	3.8	4.3	47	10	53	27	39	36	215	89	17	11
4	3.8	4.3	37	10	45	25	39	42	218	79	17	12
5	3.8	4.3	75	10	41	24	38	44	255	72	16	12
6	3.8	7.0	47	9.3	37	24	37	43	273	65	16	11
7	3.8	6.2	32	11	34	24	36	69	300	59	16	11
8	4.0	5.7	25	9.7	33	25	37	124	335	54	15	11
9	3.8	5.3	22	9.7	31	27	39	166	361	50	15	10
10	3.8	5.0	22	9.5	31	29	40	147	382	46	15	10
11	3.7	6.0	21	9.6	30	28	38	113	370	43	15	10
12	3.8	6.2	21	9.6	33	28	37	95	368	40	14	10
13	4.0	6.2	23	9.5	39	27	38	90	338	37	14	10
14	4.0	6.4	28	9.5	41	26	39	104	313	35	14	9.8
15	4.3	13	26	9.6	38	27	36	148	311	34	13	9.8
16	4.3	24	24	9.8	34	234	34	230	324	34	13	9.7
17	4.3	11	21	9.3	32	278	34	315	339	32	13	10
18	4.2	9.2	20	9.9	31	189	35	361	366	30	13	12
19	4.2	12	18	9.6	29	134	33	402	371	28	13	11
20	4.3	56	17	16	27	106	32	465	338	27	12	10
21	4.3	25	17	230	26	98	32	583	307	25	12	9.8
22	4.3	17	16	100	25	99	31	647	266	24	12	10
23	4.3	14	15	48	25	111	31	680	228	24	12	10
24	4.3	11	15	35	25	99	31	696	204	23	12	9.8
25	4.2	10	14	27	25	82	30	580	187	22	13	9.3
26	4.0	10	14	23	23	71	30	519	172	21	14	9.0
27	4.2	9.5	12	26	23	63	30	510	156	20	12	8.9
28	4.3	26	12	105	24	59	29	463	143	20	12	8.8
29	4.3	56	13	500	---	54	29	426	131	20	11	8.8
30	4.3	37	12	350	---	50	28	384	120	19	11	8.7
31	4.3	---	11	160	---	48	---	339	---	18	11	---
TOTAL	125.9	416.2	762	1806.6	990	2167	1047	8882	8183	1299	429	305.4
MEAN	4.06	13.9	24.6	58.3	35.4	69.9	34.9	287	273	41.9	13.8	10.2
MAX	4.3	56	75	500	90	278	44	696	382	110	18	12
MIN	3.7	4.3	11	9.3	23	24	28	29	120	18	11	8.7
AC-FT	250	826	1510	3580	1960	4300	2080	17620	16230	2580	851	606

CAL YR 1966 TOTAL 9674.9 MEAN 26.5 MAX 176 MIN 3.5 AC-FT 19190
WTR YR 1967 TOTAL 26413.1 MEAN 72.4 MAX 696 MIN 3.7 AC-FT 52390

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	8.5	8.7	8.2	12	72	93	107	44	11	6.4	4.9
2	15	8.5	7.7	7.9	13	65	80	111	42	11	6.0	4.9
3	16	8.2	8.5	7.0	18	63	73	119	41	10	5.7	4.9
4	11	8.2	12	7.0	17	63	72	124	39	10	5.5	4.8
5	11	8.2	14	7.2	16	65	69	117	38	9.8	5.5	4.8
6	11	8.3	10	7.2	16	58	64	104	41	9.6	5.5	4.8
7	10	8.3	12	7.4	17	53	63	96	36	9.0	5.4	4.7
8	9.8	8.0	9.0	7.7	18	50	63	92	32	8.6	5.3	4.7
9	9.5	8.2	9.0	7.7	22	45	69	92	30	8.5	5.4	4.8
10	9.5	8.2	8.7	18	24	41	80	90	27	8.3	5.4	4.8
11	9.3	8.1	9.0	8.7	23	38	93	86	25	8.0	5.3	4.8
12	9.3	7.9	8.2	9.0	22	36	96	83	24	7.7	5.2	4.7
13	9.2	7.8	7.9	8.2	23	36	89	82	23	7.8	5.3	4.8
14	9.1	10	7.3	11	21	34	87	73	22	7.8	5.7	5.0
15	8.9	8.9	8.0	87	19	32	85	66	21	7.7	6.0	5.0
16	8.9	8.3	8.2	49	18	34	84	63	19	7.6	6.1	4.9
17	8.8	8.2	8.1	31	23	36	71	62	19	7.4	6.6	4.8
18	8.7	9.0	8.3	23	33	32	68	64	18	7.2	6.4	4.8
19	8.8	15	8.7	19	69	31	60	68	17	7.0	7.9	4.9
20	8.7	12	8.2	16	235	30	57	76	16	6.8	7.9	5.2
21	8.7	10	7.9	15	264	31	53	74	16	6.7	8.7	5.3
22	9.3	9.0	7.9	14	185	32	51	73	15	6.6	7.7	5.3
23	9.0	8.3	7.9	14	219	34	51	69	15	6.3	6.6	5.1
24	8.7	8.0	8.2	13	173	36	52	61	14	6.2	6.0	4.9
25	8.6	7.7	8.2	13	126	42	56	55	13	6.1	5.7	4.8
26	8.7	7.2	8.5	13	105	43	63	53	13	6.1	5.5	4.8
27	8.7	7.4	9.0	13	95	43	67	52	12	6.0	5.5	4.7
28	9.1	7.6	9.0	12	86	48	67	52	12	5.8	5.4	4.8
29	8.7	7.8	8.7	12	78	62	89	52	12	5.8	5.3	4.8
30	8.7	8.5	8.5	11	---	81	102	49	11	5.9	5.1	4.9
31	8.6	---	8.0	11	---	95	---	46	---	6.2	5.0	---
TOTAL	298.3	259.3	273.3	488.2	1990	1461	2167	2411	707	238.5	185.0	146.4
MEAN	9.62	8.64	8.82	15.7	68.6	47.1	72.2	77.8	23.6	7.69	5.97	4.88
MAX	16	15	14	87	264	95	102	124	44	11	8.7	5.3
MIN	8.6	7.2	7.3	7.0	12	30	51	46	11	5.8	5.0	4.7
AC-FT	592	514	542	968	3950	2900	4300	4780	1400	473	367	290

CAL YR 1967 TOTAL 25939.9 MEAN 71.1 MAX 696 MIN 7.2 AC-FT 51450
WTR YR 1968 TOTAL 10625.0 MEAN 29.0 MAX 264 MIN 4.7 AC-FT 21070

11401180 LITTLE GRIZZLY CREEK NEAR GENESEE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	5.9	8.1	9.9	53	21	180	208	228	35	12	7.7
2	5.0	7.4	7.2	10	47	20	154	201	210	33	11	7.7
3	4.9	15	7.8	10	42	20	123	190	201	32	11	7.6
4	4.9	10	6.2	11	40	20	110	176	197	30	11	7.6
5	5.0	7.7	8.0	11	40	20	120	194	188	29	11	7.6
6	5.0	7.0	7.6	12	36	20	108	243	170	28	11	7.6
7	5.1	6.6	7.5	13	33	20	94	311	152	27	10	7.6
8	5.2	6.5	7.8	14	32	20	87	391	154	26	10	7.7
9	5.3	6.9	8.1	13	31	20	85	488	143	25	10	7.5
10	5.2	6.6	22	13	32	19	88	512	124	24	9.9	7.6
11	5.8	8.1	22	14	36	19	101	540	124	23	9.8	7.6
12	11	29	15	20	40	19	124	576	112	21	9.6	7.5
13	9.9	12	13	119	38	19	139	556	107	21	9.4	7.4
14	8.4	9.3	12	88	36	18	129	492	102	20	9.3	7.4
15	6.9	8.8	22	47	35	19	116	426	96	19	9.1	7.4
16	6.2	8.3	21	32	32	22	116	412	92	19	9.0	7.5
17	6.0	8.1	15	25	30	25	128	444	85	18	8.8	7.4
18	5.9	18	13	22	29	30	154	460	98	17	8.7	7.4
19	5.8	15	11	167	28	31	156	430	91	17	8.6	7.6
20	5.7	12	9.3	810	26	32	176	384	77	16	8.5	7.6
21	5.7	10	8.6	805	25	31	218	363	70	16	8.3	7.8
22	5.6	10	11	255	25	31	282	370	64	15	8.2	7.6
23	5.6	10	11	136	24	36	282	391	60	15	8.0	7.4
24	5.6	9.9	14	99	23	40	208	391	55	15	8.1	7.3
25	5.5	9.6	16	134	23	42	172	356	51	14	8.1	7.3
26	5.5	8.7	14	416	22	47	152	325	48	14	8.1	7.3
27	5.5	8.3	12	186	21	58	143	291	45	13	8.0	7.2
28	5.5	8.0	12	138	22	73	152	258	43	13	8.0	7.2
29	5.8	7.8	11	88	---	92	194	240	40	13	8.0	7.2
30	6.8	8.0	10	74	---	121	215	249	37	12	8.0	7.2
31	6.1	---	10	61	---	172	---	246	---	12	7.8	---
TOTAL	185.4	298.5	375.2	3852.9	901	1177	4506	11114	3264	632	286.3	224.5
MEAN	5.98	9.95	12.1	124	32.2	38.0	150	359	109	20.4	9.24	7.48
MAX	11	29	22	810	53	172	282	576	228	35	12	7.8
MIN	4.9	5.9	7.2	9.9	21	18	85	176	37	12	7.8	7.2
AC-FT	368	592	744	7640	1790	2330	8940	22040	6470	1250	568	445

CAL YR 1968 TOTAL 10653.2 MEAN 29.1 MAX 264 MIN 4.7 AC-FT 21130
WTR YR 1969 TOTAL 26816.8 MEAN 73.5 MAX 810 MIN 4.9 AC-FT 53190

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	7.8	7.8	18	89	56	58	53	118	23	9.1	6.8
2	7.2	7.8	7.8	15	77	53	58	60	115	22	9.0	6.8
3	7.4	7.8	7.8	14	70	49	57	78	113	20	8.9	6.8
4	7.6	8.3	7.6	15	66	47	57	105	108	20	8.7	6.9
5	7.6	15	7.4	13	60	45	61	124	102	18	8.6	7.5
6	7.6	13	8.0	13	56	44	65	133	92	18	8.5	7.3
7	7.6	12	7.7	15	53	45	68	130	84	16	8.5	7.1
8	8.3	11	7.9	15	51	53	68	132	78	16	8.4	6.9
9	8.1	10	8.0	54	51	56	71	141	75	16	8.1	6.8
10	7.9	10	8.1	125	50	54	80	149	78	15	8.0	6.6
11	7.8	9.9	9.1	68	51	49	83	127	63	15	7.8	6.5
12	7.8	10	16	55	60	47	79	117	59	14	7.7	6.5
13	7.8	10	18	87	63	50	76	112	59	14	7.6	6.6
14	8.0	9.9	12	235	59	62	73	110	55	14	7.6	6.9
15	12	9.8	10	137	58	66	68	120	49	13	7.5	6.9
16	22	11	9.7	365	60	65	65	150	48	13	7.4	6.9
17	19	9.3	9.1	389	69	67	65	185	44	12	7.4	6.7
18	11	8.8	9.3	192	62	62	60	200	40	12	7.5	6.7
19	9.7	8.8	39	138	56	59	60	194	38	12	7.4	6.7
20	9.5	8.8	72	145	52	57	54	178	36	11	7.3	6.9
21	9.9	8.7	134	430	50	57	51	170	36	11	7.3	6.9
22	9.5	8.5	61	792	48	59	49	170	34	11	7.2	6.8
23	9.0	8.3	50	634	46	61	46	174	30	11	7.2	6.8
24	8.7	8.3	101	922	44	67	45	166	29	11	7.1	6.7
25	8.5	8.2	112	401	43	70	47	174	28	10	7.1	6.7
26	8.3	8.2	70	261	43	69	51	186	30	10	7.1	6.6
27	8.2	8.1	46	303	43	66	49	180	32	10	7.1	6.6
28	8.2	7.9	33	207	45	67	46	162	31	9.9	6.9	6.6
29	8.0	7.7	27	155	---	67	47	147	30	9.8	7.0	6.5
30	8.0	7.7	23	126	---	64	52	136	25	9.3	6.9	6.5
31	8.0	---	20	103	---	60	---	126	---	9.3	6.8	---
TOTAL	285.4	280.6	959.3	6442	1575	1793	1809	4389	1759	426.3	238.7	203.5
MEAN	9.21	9.35	30.9	208	56.3	57.8	60.3	142	58.6	13.8	7.70	6.78
MAX	22	15	134	922	89	70	83	200	118	23	9.1	7.5
MIN	7.2	7.7	7.4	13	43	44	45	53	25	9.3	6.8	6.5
AC-FT	566	557	1900	12780	3120	3560	3590	8710	3490	846	473	404

CAL YR 1969 TOTAL 27483.0 MEAN 75.3 MAX 810 MIN 7.2 AC-FT 54510
WTR YR 1970 TOTAL 20160.8 MEAN 55.2 MAX 922 MIN 6.5 AC-FT 39990

11401200 INDIAN CREEK NEAR TAYLORSVILLE, CALIF.

LOCATION.--Lat 40°02'53", long 120°49'01", in SE¼NW¼ sec.12, T.25 N., R.10 E., Plumas County, on right bank 0.3 mile upstream from Montgomery Creek and 2.3 miles southeast of Taylorsville.

DRAINAGE AREA.--526 sq mi.

PERIOD OF RECORD.--May 1957 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 3,580 ft (from topographic map). Prior to Oct. 22, 1963, at site 1.0 mile downstream at different datum.

AVERAGE DISCHARGE.--13 years, 374 cfs (271,000 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Mar. 15, 1966	996	7.59	Sept. 5, 6, 1966	26
1967	Mar. 17, 1967	5,780	12.03	Oct. 1, 5, 1966	36
1968	Feb. 23, 1968	2,900	10.24	Sept. 6-8, 13, 1968	30
1969	Jan. 21, 1969	10,000	13.73	Oct. 4, 1968	33
1970	Jan. 24, 1970	14,200	15.07	Sept.17, 1970	33

Period of record: Maximum discharge, 30,200 cfs Feb. 1, 1963 (gage height, 10.65 ft, site and datum then in use), from rating curve extended above 3,000 cfs on basis of slope-area measurements at gage heights 10.3 and 10.65 ft; minimum daily, 13 cfs Aug. 2-4, 1961.

Flood of Dec. 23, 1955, reached a stage of 11.5 ft, from floodmarks, site and datum then in use (discharge unknown).

REMARKS.--Flow partly regulated by Antelope Lake (see station 11401120) and storage in Taylor Lake since 1929 (capacity, 380 acre-ft). Some diversions for irrigation upstream. See schematic diagram of North Fork Feather River basin elsewhere in this report.

COOPERATION.--Records furnished by California Department of Water Resources and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	56	86	80	91	106	791	340	113	60	43	31
2	64	56	87	79	88	99	806	333	113	52	43	30
3	59	55	85	89	92	88	724	343	104	49	41	28
4	58	56	90	107	92	91	643	358	99	48	41	27
5	57	54	88	161	97	105	596	387	94	46	40	26
6	56	59	85	184	103	100	600	386	95	47	39	26
7	55	59	83	176	98	115	606	352	102	46	37	31
8	54	71	83	172	89	131	581	339	100	45	36	33
9	53	68	85	170	103	153	554	352	101	45	36	32
10	54	66	85	157	97	244	717	629	94	46	35	32
11	54	62	83	146	85	281	721	500	91	46	37	32
12	54	64	85	133	99	320	611	389	87	44	36	32
13	54	67	86	131	81	594	526	340	85	44	35	32
14	54	91	76	125	90	843	479	301	83	43	35	33
15	56	90	68	124	91	793	475	280	82	44	35	31
16	56	83	71	119	86	580	509	263	78	44	35	30
17	55	109	66	112	89	413	565	240	77	43	35	30
18	56	208	70	112	91	413	627	218	80	43	34	29
19	56	173	72	111	92	497	555	199	77	43	33	31
20	57	124	67	97	91	432	490	189	74	43	32	34
21	56	104	70	104	90	428	458	185	69	41	33	37
22	54	94	83	111	95	451	435	179	69	42	32	38
23	55	93	69	100	100	420	417	163	69	41	31	37
24	54	119	84	98	109	484	409	153	70	42	32	36
25	53	110	86	95	102	565	428	147	65	39	32	36
26	53	96	83	96	102	618	439	138	64	39	31	37
27	54	97	81	91	98	681	403	132	62	40	31	37
28	55	86	90	87	101	719	374	127	63	39	31	37
29	56	90	85	95	---	741	353	120	62	39	30	35
30	57	93	88	95	---	759	346	118	62	39	31	36
31	56	---	85	91	---	766	---	115	---	42	32	---
TOTAL	1734	2653	2505	3648	2642	13030	16238	8315	2484	1364	1084	976
MEAN	55.9	88.4	80.8	118	94.4	420	541	268	82.8	44.0	35.0	32.5
MAX	69	208	90	184	109	843	806	629	113	60	43	38
MIN	53	54	66	79	81	88	346	115	62	39	30	26
AC-FT	3440	5260	4970	7240	5240	25850	32210	16490	4930	2710	2150	1940

CAL YR 1965 TOTAL 200399 MEAN 549 MAX 3100 MIN 53 AC-FT 397500
WTR YR 1966 TOTAL 56673 MEAN 155 MAX 843 MIN 26 AC-FT 112400

11401200 INDIAN CREEK NEAR TAYLORSVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	50	264	110	1350	478	839	549	1650	443	100	57
2	37	49	348	99	1030	530	745	662	1550	408	96	56
3	37	49	395	104	856	548	735	810	1610	375	93	56
4	37	49	333	105	741	471	749	1040	1650	337	90	59
5	36	49	655	107	657	431	682	1220	1810	307	82	64
6	37	64	512	82	592	416	660	1290	2080	286	79	62
7	37	72	384	99	559	430	674	1760	1770	267	77	60
8	37	65	318	94	526	453	709	2400	1730	252	77	58
9	37	61	269	91	507	519	879	3060	1720	236	75	56
10	37	58	287	93	503	647	981	2870	1810	219	73	56
11	38	58	270	91	491	546	847	2230	1620	213	71	54
12	38	58	255	91	532	495	751	1970	1750	201	70	54
13	37	58	274	90	659	459	895	1820	1960	191	69	56
14	39	58	326	89	709	478	1000	1840	1610	180	66	54
15	40	72	286	89	609	459	893	2130	1480	171	66	53
16	40	137	251	88	582	2350	763	2590	1400	180	63	53
17	40	96	227	80	547	4940	775	3090	1350	242	62	56
18	40	80	206	89	531	3420	810	3470	1310	201	61	62
19	42	77	192	86	513	2290	812	3440	1250	174	64	61
20	41	241	183	123	462	1820	692	3490	1210	159	59	61
21	41	215	174	1240	434	1810	685	3650	1090	153	58	57
22	41	159	160	897	425	1920	650	3720	971	147	57	58
23	42	119	157	494	413	2040	613	3480	866	140	56	59
24	44	106	163	431	417	1800	630	3270	789	133	57	57
25	44	96	140	354	410	1540	624	2810	738	126	59	56
26	48	96	137	330	379	1310	593	2460	675	115	63	56
27	48	89	132	361	381	1150	615	2290	616	110	60	55
28	48	134	106	709	402	1260	608	2110	567	107	60	53
29	50	360	126	2700	---	1110	584	1910	527	105	59	54
30	49	335	125	2390	---	1000	555	1720	485	101	58	55
31	50	---	109	1830	---	920	---	1670	---	100	58	---
TOTAL	1268	3210	7764	13636	16217	38040	22048	70821	39644	6379	2138	1708
MEAN	40.9	107	250	440	579	1227	735	2285	1321	206	69.0	56.9
MAX	50	360	655	2700	1350	4940	1000	3720	2080	443	100	64
MIN	36	49	106	80	379	416	555	549	485	100	56	53
AC-FT	2520	6370	15400	27050	32170	75450	43730	140500	78630	12650	4240	3390

CAL YR 1966 TOTAL 62023 MEAN 170 MAX 843 MIN 26 AC-FT 123000
WTR YR 1967 TOTAL 222873 MEAN 611 MAX 4940 MIN 36 AC-FT 442100

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	58	73	78	97	945	694	381	159	60	41	33
2	73	59	67	73	91	836	678	379	153	55	40	33
3	112	59	80	60	105	772	632	390	147	52	39	32
4	91	59	91	67	108	728	581	404	141	50	39	32
5	82	62	128	69	112	749	559	400	136	49	36	31
6	75	63	87	66	113	651	533	370	150	49	35	30
7	69	63	112	67	120	591	502	346	153	48	35	30
8	66	62	83	70	124	565	482	332	146	48	35	30
9	64	62	82	69	142	561	475	318	137	276	35	31
10	63	61	82	102	170	495	494	313	122	47	35	31
11	61	61	80	71	175	441	538	307	111	46	37	31
12	59	61	81	73	194	411	570	285	104	45	36	31
13	60	61	61	75	236	405	546	278	101	45	34	30
14	59	69	56	87	238	415	512	266	98	49	35	31
15	58	67	70	357	199	415	508	252	94	48	35	32
16	58	65	77	278	177	459	516	236	90	48	36	32
17	58	64	78	205	193	458	507	225	85	47	38	32
18	58	67	79	159	299	465	461	228	78	46	38	32
19	58	97	79	138	475	438	424	239	77	43	42	33
20	58	90	76	119	1310	428	400	255	77	42	44	34
21	58	83	74	107	1940	456	374	244	75	41	47	35
22	59	76	78	97	1990	465	351	247	72	40	45	35
23	59	71	75	91	2340	435	336	263	71	39	43	35
24	58	69	74	87	2150	433	333	246	69	39	41	34
25	57	68	75	85	1540	471	332	233	67	55	39	34
26	57	65	75	82	1350	543	333	225	64	43	38	34
27	58	65	78	76	1230	482	340	221	63	41	37	33
28	58	69	79	76	1150	489	339	217	62	39	37	33
29	59	74	79	77	1020	559	354	204	62	37	35	33
30	58	75	72	58	---	661	373	178	61	38	34	32
31	58	---	74	102	---	704	---	169	---	39	34	---
TOTAL	1976	2025	2455	3221	19388	16926	14077	8651	3025	1644	1175	969
MEAN	63.7	67.5	79.2	104	669	546	469	279	101	53.0	37.9	32.3
MAX	112	97	128	357	2340	945	694	404	159	276	47	35
MIN	55	58	56	58	91	405	332	169	61	37	34	30
AC-FT	3920	4020	4870	6390	38460	33570	27920	17160	6000	3260	2330	1920

CAL YR 1967 TOTAL 217087 MEAN 595 MAX 4940 MIN 53 AC-FT 430600
WTR YR 1968 TOTAL 75532 MEAN 206 MAX 2340 MIN 30 AC-FT 149800

11401200 INDIAN CREEK NEAR TAYLORSVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	51	68	95	810	305	4420	2020	756	191	68	48
2	34	56	61	96	695	285	3630	1910	711	165	67	53
3	34	76	61	96	605	296	2740	1840	670	165	66	54
4	33	79	61	96	566	288	2770	1810	650	151	67	55
5	34	69	65	97	511	278	3170	1720	646	147	66	54
6	35	63	64	97	493	295	2520	1790	603	149	64	54
7	35	59	65	102	458	290	2120	1980	540	146	61	55
8	35	57	66	106	435	292	2140	2150	546	143	57	55
9	36	57	67	89	439	298	2250	2370	637	140	55	54
10	38	56	109	102	446	285	2370	2470	576	144	53	53
11	41	61	157	109	499	283	2600	2600	565	141	52	50
12	57	139	110	128	589	289	2950	2670	622	132	53	49
13	63	99	110	385	559	271	3140	2540	549	127	52	48
14	60	82	106	414	540	268	2810	2250	537	123	52	48
15	60	74	142	321	531	277	2260	1960	528	116	51	48
16	56	69	135	264	478	308	2000	1810	503	111	49	49
17	54	67	113	219	428	361	2040	1780	447	107	48	50
18	53	83	101	197	437	438	2430	1750	516	102	48	50
19	52	90	102	870	417	475	2280	1650	570	98	47	49
20	51	80	85	5540	383	528	2400	1510	481	96	47	48
21	51	73	77	7550	348	529	2620	1410	392	94	47	50
22	50	71	86	2850	345	528	2930	1370	361	91	46	50
23	50	72	101	1620	359	616	3120	1350	327	86	45	48
24	50	74	109	1240	329	697	2710	1310	309	79	45	47
25	50	73	127	1310	311	761	2390	1230	294	77	46	47
26	49	69	120	3940	315	911	2170	1160	253	74	47	48
27	49	68	110	2390	297	1190	1910	1050	252	67	47	47
28	48	66	109	1780	320	1600	1830	939	217	67	46	47
29	50	66	102	1340	---	2140	2010	877	212	64	46	46
30	53	68	97	1110	---	3020	2120	835	210	64	47	46
31	52	---	97	892	---	4200	---	816	---	65	47	---
TOTAL	1447	2167	2983	35445	12943	22602	76850	52927	14480	3522	1632	1500
MEAN	46.7	72.2	96.2	1143	462	729	2562	1707	483	114	52.6	50.0
MAX	63	139	157	7550	810	4200	4420	2670	756	191	68	55
MIN	33	51	61	89	297	268	1830	816	210	64	45	46
AC-FT	2870	4300	5920	70310	25670	44830	152400	105000	28720	6990	3240	2980

CAL YR 1968 TOTAL 75673 MEAN 207 MAX 2340 MIN 30 AC-FT 150100
WTR YR 1969 TOTAL 228498 MEAN 626 MAX 7550 MIN 33 AC-FT 453200

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	65	52	180	1080	839	544	424	395	135	50	41
2	44	65	53	155	904	708	539	420	379	125	49	41
3	46	65	53	142	879	680	520	454	371	117	48	41
4	48	65	54	145	874	660	508	514	354	110	49	42
5	49	91	54	131	808	617	511	572	337	104	48	44
6	49	96	57	129	754	621	530	610	327	97	48	48
7	50	90	59	136	729	691	542	624	302	93	47	49
8	54	85	59	131	718	839	530	617	280	91	46	44
9	56	80	61	212	714	831	538	614	274	92	47	41
10	53	77	64	770	690	742	567	735	287	92	46	37
11	51	75	71	555	685	672	615	731	267	90	46	36
12	52	74	91	470	772	637	588	675	242	87	45	37
13	56	73	97	658	871	713	571	685	247	84	44	39
14	57	73	88	1670	807	819	566	644	252	80	44	41
15	68	73	81	1340	790	882	537	621	230	76	43	41
16	109	74	79	3340	807	839	510	650	213	73	42	35
17	126	72	77	4270	801	841	494	710	196	70	41	33
18	101	69	79	2500	806	753	477	733	181	68	40	34
19	87	69	135	1850	724	712	471	716	165	65	40	35
20	80	68	251	2140	666	686	465	679	156	64	39	37
21	76	69	600	3460	645	672	438	645	151	63	38	38
22	73	68	512	7790	642	662	407	624	149	61	38	37
23	71	67	358	4800	624	666	385	617	136	60	38	37
24	70	67	535	9810	632	683	374	596	128	59	38	39
25	69	66	671	3760	613	703	366	584	124	58	38	40
26	67	64	548	2660	651	694	396	590	126	57	37	41
27	66	61	392	3770	685	654	450	583	138	56	37	42
28	67	57	277	2350	732	635	442	533	147	55	37	42
29	67	54	245	1720	---	624	440	499	155	53	38	44
30	67	53	220	1510	---	605	455	465	149	52	40	45
31	65	---	189	1190	---	592	---	432	---	51	40	---
TOTAL	2038	2125	6162	63744	21103	21972	14776	18596	6858	2438	1321	1201
MEAN	65.7	70.8	199	2056	754	709	493	600	229	78.6	42.6	40.0
MAX	126	96	671	9810	1080	882	615	735	395	135	50	49
MIN	44	53	52	129	613	592	366	420	124	51	37	33
AC-FT	4040	4210	12220	126400	41860	43580	29310	36890	13600	4840	2620	2380

CAL YR 1969 TOTAL 232226 MEAN 636 MAX 7550 MIN 44 AC-FT 460600
WTR YR 1970 TOTAL 162334 MEAN 445 MAX 9810 MIN 33 AC-FT 322000

11401500 INDIAN CREEK NEAR CRESCENT MILLS, CALIF.

LOCATION.--Lat 40°04'42"(revised), long 120°55'36", in SW¼SW¼ sec.25, T.26 N., R.9 E., Plumas County, on left bank 0.8 mile upstream from Dixie Creek and 1.5 miles south of Crescent Mills.

DRAINAGE AREA.--739 sq mi.

PERIOD OF RECORD.--January 1906 to December 1909, September 1911 to March 1918, October 1930 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 3,500 ft (from topographic map). Prior to March 1918, nonrecording gage at site 800 ft upstream at different datum.

AVERAGE DISCHARGE.--49 years (1906-9, 1911-17, 1930-70), 550 cfs (398,500 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (1,100 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Mar. 14, 1966	0700	*1,820	6.25	Jan. 15, 1968	1100	1,790	6.28	May 13, 1969	0445	4,020	8.39
Apr. 2, 1966	0100	1,620	6.00	Feb. 24, 1968	0730	*4,720	9.00				
Apr. 11, 1966	0100	1,490	5.81	Mar. 16, 1968	2000	1,270	5.54	Dec. 21, 1969	-	3,120	7.70
				Apr. 1, 1968	0400	1,380	5.70	Dec. 24, 1969	1600	1,680	6.13
Dec. 2, 1966	2345	1,380	5.70					Jan. 10, 1970	0830	2,320	6.90
Dec. 5, 1966	1530	2,110	6.67	Jan. 13, 1969	1800	3,320	7.88	Jan. 14, 1970	2030	4,680	8.97
Jan. 22, 1967	0400	4,870	9.11	Jan. 21, 1969	1245	*18,300	15.81	Jan. 17, 1970	1530	8,140	11.22
Jan. 30, 1967	0500	*6,670	10.32	Jan. 26, 1969	2200	7,980	11.10	Jan. 24, 1970	1530	*19,300	16.09
Feb. 14, 1967	0700	1,320	5.62	Feb. 12, 1969	1815	1,670	6.12	Feb. 13, 1970	0400	1,470	5.94
Mar. 11, 1967	0600	1,240	5.48	Apr. 1, 1969	1345	6,690	10.33	Feb. 17, 1970	0300	1,750	6.33
Mar. 18, 1967	0400	*6,670	10.32	Apr. 13, 1969	1300	4,180	8.54	Mar. 1, 1970	1830	1,670	6.24
May 23, 1967	1400	5,560	9.60	Apr. 23, 1969	2315	4,870	9.04	Mar. 9, 1970	0400	1,730	6.33
								Mar. 15, 1970	0600	1,480	5.98

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Aug. 26, 1966	9.2	1969	Aug. 22, Sept. 1, 1969	24
1967	Oct. 7, 1966	17	1970	Aug. 21, 1970	15
1968	Aug. 12, 1968	12			

Period of record: Maximum discharge observed, 25,000 cfs Mar. 19, 1907 (gage height, 20.2 ft, site and datum then in use); minimum, 1.7 cfs Aug. 25, 1931.

REMARKS.--Records good. Since 1865, natural flow affected by storage in Round Valley Reservoir (capacity, 5,000 acre-ft), since 1929, by Taylor Lake (capacity, 380 acre-ft), and since November 1963, by Antelope Lake (see station 11401120, capacity, 22,239 acre-ft). Diversions above station for irrigation of about 11,800 acres, of which 9,700 acres is in Indian and Genesee Valleys. See schematic diagram of North Fork Feather River basin elsewhere in this report. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

REVISIONS (WATER YEARS).--WSP 1445: 1906-9. WSP 1931: 1956, 1958(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	83	166	147	202	240	1490	416	98	23	16	13
2	83	83	162	138	190	226	1530	407	91	19	14	17
3	76	83	158	160	188	204	1370	410	91	19	15	17
4	71	84	162	246	200	196	1170	431	89	25	13	16
5	68	87	166	656	232	224	1080	492	81	22	10	16
6	69	87	160	875	282	218	1060	488	84	17	9.5	16
7	69	90	156	728	252	252	1080	425	92	16	11	16
8	68	102	152	600	214	278	1020	404	91	16	10	15
9	62	98	156	520	220	341	974	410	90	15	10	14
10	63	94	154	410	210	540	1320	692	81	14	12	14
11	67	96	154	350	180	656	1380	680	68	17	11	10
12	64	100	154	292	198	656	1180	480	71	14	11	10
13	63	135	150	266	170	1170	992	404	67	13	13	10
14	65	280	138	252	174	1610	890	356	66	12	13	14
15	79	255	112	248	178	1470	860	329	58	13	14	16
16	83	200	121	244	170	1190	890	295	54	14	14	17
17	80	370	111	226	174	805	974	260	51	18	10	12
18	74	810	111	214	180	748	1050	238	56	20	11	11
19	79	500	115	210	206	825	915	212	61	12	11	16
20	92	300	104	188	224	752	784	200	57	11	11	18
21	87	216	104	180	216	728	724	188	47	11	15	18
22	85	180	122	200	224	740	680	184	41	17	16	14
23	85	194	101	190	266	716	648	168	49	16	13	18
24	84	433	130	186	310	756	632	147	49	15	10	20
25	85	353	166	178	282	865	652	136	44	16	10	18
26	84	262	136	180	258	962	660	132	36	15	9.2	18
27	83	226	135	172	242	1090	588	126	31	17	14	20
28	81	196	186	160	238	1230	540	112	28	15	15	19
29	81	180	224	176	---	1310	464	107	28	14	13	19
30	83	184	190	214	---	1380	410	105	28	16	15	21
31	83	---	166	212	---	1420	---	104	---	19	15	---
TOTAL	2377	6361	4522	9018	6080	23798	28007	9538	1878	501	384.7	473
MEAN	76.7	212	146	291	217	768	934	308	62.6	16.2	12.4	15.8
MAX	92	810	224	875	310	1610	1530	692	98	25	16	21
MIN	62	83	101	138	170	196	410	104	28	11	9.2	10
AC-FT	4710	12620	8970	17890	12060	47200	55550	18920	3730	994	763	938

CAL YR 1965 TOTAL 301329.0 MEAN 826 MAX 5740 MIN 39 AC-FT 597700
WTR YR 1966 TOTAL 92937.7 MEAN 255 MAX 1610 MIN 9.2 AC-FT 184300

11401500 INDIAN CREEK NEAR CRESCENT MILLS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	62	524	194	3780	712	1350	830	2460	584	89	42
2	20	62	850	180	2380	768	1180	935	2170	520	85	42
3	18	62	1140	178	1650	800	1150	1110	2130	472	83	43
4	19	66	905	180	1370	724	1150	1410	2230	425	77	46
5	18	62	1910	184	1200	672	1090	1650	2280	374	71	48
6	18	84	1270	147	1090	644	1060	1750	2810	323	64	47
7	17	101	935	148	1020	652	1120	2320	2580	308	62	46
8	20	87	764	150	950	676	1090	3300	2440	282	60	45
9	25	81	616	147	900	744	1240	4400	2450	254	54	43
10	26	78	644	147	880	930	1370	4300	2280	232	57	45
11	24	76	596	145	865	1100	1260	3600	2240	224	57	48
12	25	78	532	145	915	890	1120	3000	2310	212	56	48
13	26	79	588	145	1110	810	1220	2750	2160	206	54	40
14	30	78	712	143	1260	805	1370	2750	2210	194	51	38
15	31	100	624	143	1060	784	1270	2950	1990	184	50	36
16	33	260	524	145	962	2930	1100	3600	1870	212	43	34
17	33	190	460	140	885	6000	1090	4100	1770	300	40	35
18	33	143	404	145	835	6350	1190	4700	1720	240	38	45
19	33	159	374	145	800	5000	1230	5000	1670	202	34	51
20	34	704	350	240	740	3700	1050	5100	1620	184	31	53
21	38	720	326	2870	692	3060	1030	5290	1470	168	31	53
22	40	532	300	4270	676	3010	992	5420	1270	158	30	51
23	40	280	288	1910	660	3210	930	5450	1150	152	34	49
24	39	206	292	1040	660	3200	950	5320	1030	132	25	54
25	67	176	264	820	664	2690	968	4900	956	115	36	50
26	62	166	250	732	620	2100	925	4180	870	107	41	39
27	48	154	234	752	608	1770	950	3660	764	103	48	43
28	51	202	208	1580	632	1810	940	3260	720	99	44	38
29	51	604	218	4960	---	1670	900	2860	676	99	43	41
30	53	600	218	6340	---	1560	855	2480	628	96	42	37
31	64	---	198	5340	---	1460	---	2310	---	95	42	---
TOTAL	1057	6252	17518	33805	29864	61231	33140	104685	52924	7256	1572	1330
MEAN	34.1	208	565	1090	1067	1975	1105	3377	1764	234	50.7	44.3
MAX	67	720	1910	6340	3780	6350	1370	5450	2810	584	89	54
MIN	17	62	198	140	608	644	855	830	628	95	25	34
AC-FT	2100	12400	34750	67050	59240	121500	65730	207600	105000	14390	3120	2640

CAL YR 1966 TOTAL 104504.7 MEAN 286 MAX 1910 MIN 9.2 AC-FT 207300
WTR YR 1967 TOTAL 350634.0 MEAN 961 MAX 6350 MIN 17 AC-FT 695500

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	70	124	130	210	1600	1340	568	188	36	21	16
2	58	90	117	124	240	1420	1230	540	174	29	20	16
3	103	110	126	111	268	1320	1120	512	158	29	16	16
4	104	105	217	114	275	1260	1020	528	148	28	16	18
5	104	100	594	121	272	1280	968	516	132	38	16	18
6	104	95	290	119	280	1150	905	460	164	35	19	16
7	104	90	373	124	310	1030	850	410	202	25	15	18
8	103	90	258	122	359	986	800	380	188	25	18	20
9	102	92	184	128	444	950	792	362	170	22	16	20
10	101	95	168	331	608	855	820	347	150	20	16	19
11	100	95	156	264	616	776	895	341	124	20	16	19
12	99	95	142	170	644	744	940	335	111	20	12	20
13	94	94	117	170	736	850	885	338	104	20	13	19
14	76	104	114	254	708	920	820	323	101	20	17	19
15	79	104	124	1520	644	850	800	285	104	20	18	19
16	72	98	126	942	580	1050	796	270	92	18	18	20
17	69	96	121	536	684	1120	768	252	87	18	20	18
18	71	98	122	389	945	980	708	250	76	20	19	18
19	71	147	130	329	1120	855	656	254	75	15	22	19
20	77	150	128	290	2840	800	616	290	52	15	23	21
21	92	133	120	272	3780	825	568	290	43	16	27	22
22	94	121	122	258	4160	845	520	312	46	16	25	24
23	92	114	121	252	4000	825	484	338	35	15	24	26
24	96	111	122	246	4540	840	472	323	33	14	30	31
25	90	107	127	242	3460	915	472	287	29	16	28	32
26	90	103	127	230	2570	1060	468	264	37	16	26	32
27	87	101	135	220	2110	940	488	252	33	16	24	33
28	80	108	138	218	1880	925	480	232	33	17	20	33
29	75	118	138	200	1670	1050	512	202	35	16	19	35
30	70	128	130	150	---	1220	544	194	30	20	18	38
31	65	---	122	180	---	1330	---	196	---	20	16	---
TOTAL	2665	3162	5133	8756	40953	31571	22737	10451	2954	655	608	675
MEAN	86.0	105	166	282	1412	1018	758	337	98.5	21.1	19.6	22.5
MAX	104	150	594	1520	4540	1600	1340	568	202	38	30	38
MIN	43	70	114	111	210	744	468	194	29	14	12	16
AC-FT	5290	6270	10180	17370	81230	62620	45100	20730	5860	1300	1210	1340

CAL YR 1967 TOTAL 336767 MEAN 923 MAX 6350 MIN 25 AC-FT 668000
WTR YR 1968 TOTAL 130320 MEAN 356 MAX 4540 MIN 12 AC-FT 258500

11401500 INDIAN CREEK NEAR CRESCENT MILLS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	76	125	210	1370	651	6410	3110	1020	190	51	24
2	36	81	116	208	1210	616	6030	2960	956	187	55	29
3	33	102	108	209	1070	615	4830	2810	886	178	50	31
4	36	119	110	211	973	582	4010	2680	848	176	45	34
5	36	106	115	215	994	572	4170	2530	846	164	37	37
6	42	97	113	216	928	614	4040	2650	807	178	35	36
7	45	87	114	221	805	570	3230	2960	738	187	34	32
8	47	82	117	249	752	568	2880	3180	753	154	30	33
9	46	82	118	210	910	569	2870	3520	902	165	31	38
10	45	80	364	201	1000	525	2930	3750	819	168	31	37
11	45	84	581	257	1240	517	3160	3890	808	174	33	30
12	69	298	288	553	1630	520	3550	3950	854	156	30	31
13	75	216	228	2390	1350	481	4040	3890	752	156	31	29
14	80	162	272	2220	1200	473	3940	3520	727	131	29	34
15	83	145	600	1070	1420	488	3270	2950	738	116	29	31
16	77	133	598	735	1290	546	2900	2620	688	109	29	30
17	74	125	343	572	1030	675	2880	2540	627	105	31	38
18	70	154	254	475	953	832	3330	2510	633	96	37	40
19	67	188	235	1650	873	884	3480	2370	724	71	36	44
20	67	154	194	5670	789	919	3500	2150	628	67	29	43
21	71	140	158	15000	720	901	3700	1980	545	68	27	46
22	81	131	159	10200	680	902	4150	1870	484	68	24	50
23	73	126	192	4940	712	1080	4660	1850	424	69	25	49
24	70	133	263	2700	653	1250	4570	1780	391	69	25	45
25	69	137	436	2280	623	1370	3860	1670	358	83	28	42
26	70	128	419	6150	631	1580	3240	1570	309	75	28	38
27	70	122	364	6650	588	1920	2770	1480	294	62	30	47
28	67	117	314	4300	655	2370	2600	1340	262	48	32	47
29	70	116	300	2700	---	2910	2870	1230	256	55	32	44
30	80	122	258	1890	---	3700	3140	1180	207	47	29	48
31	78	---	226	1510	---	5010	---	1120	---	49	30	---
TOTAL	1909	3843	8082	76062	27049	35210	111010	77610	19284	3621	1023	1137
MEAN	61.6	128	261	2454	966	1136	3700	2504	643	117	33.0	37.9
MAX	83	298	600	15000	1630	5010	6410	3950	1020	190	55	50
MIN	33	76	108	201	588	473	2600	1120	207	47	24	24
AC-FT	3790	7620	16030	150900	53650	69840	220200	153900	38250	7180	2030	2260

CAL YR 1968 TOTAL 133194 MEAN 364 MAX 4540 MIN 12 AC-FT 264200
WTR YR 1969 TOTAL 365840 MEAN 1002 MAX 15000 MIN 24 AC-FT 725600

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	96	97	300	1610	1480	733	584	480	182	31	18
2	45	96	99	258	1370	1380	697	560	443	156	26	17
3	45	96	100	226	1270	1190	689	578	416	133	24	18
4	51	94	98	233	1230	1120	670	635	405	123	26	16
5	50	162	95	209	1140	1070	667	701	373	113	31	17
6	53	200	101	195	1050	1020	687	751	372	97	31	18
7	54	174	101	214	1010	1080	701	784	340	88	28	18
8	59	163	106	233	983	1580	696	780	307	81	20	20
9	68	143	107	584	963	1630	701	765	310	75	19	24
10	65	132	112	1970	939	1440	718	916	343	77	19	28
11	60	125	141	1330	928	1250	793	954	327	58	19	31
12	54	120	257	1060	1100	1120	758	915	306	53	21	32
13	55	118	276	1640	1410	1160	736	919	316	44	18	32
14	60	117	198	3840	1270	1290	744	854	357	43	17	32
15	76	118	166	4020	1170	1440	707	800	326	45	17	32
16	138	126	149	4510	1220	1350	668	812	291	41	21	31
17	213	124	137	7620	1560	1320	648	889	281	36	22	26
18	171	115	150	6410	1330	1190	625	921	253	36	24	23
19	140	112	600	4200	1160	1090	587	892	218	36	25	30
20	121	111	1100	3360	1050	1020	561	854	191	33	20	29
21	113	110	2000	3900	991	976	580	792	166	37	15	32
22	109	108	1100	8560	961	940	538	764	156	44	18	33
23	106	106	878	9210	923	931	499	752	127	44	21	32
24	102	105	1510	15600	913	944	482	726	128	39	21	31
25	99	105	1610	10800	884	971	472	711	123	38	21	32
26	98	105	1190	6250	905	955	531	711	127	38	17	32
27	99	104	795	5990	940	901	621	712	179	35	17	32
28	98	100	563	5340	1010	862	605	663	212	34	20	32
29	99	97	444	3590	---	849	566	616	222	33	22	34
30	98	97	380	2560	---	824	590	571	222	27	22	33
31	96	---	326	1850	---	798	---	518	---	30	18	---
TOTAL	2741	3579	14986	116062	31290	35171	19270	23400	8317	1949	671	815
MEAN	88.4	119	483	3744	1118	1135	642	755	277	62.9	21.6	27.2
MAX	213	200	2000	15600	1610	1630	793	954	480	182	31	34
MIN	45	94	95	195	884	798	472	518	123	27	15	16
AC-FT	5440	7100	29720	230200	62060	69760	38220	46410	16500	3870	1330	1620

CAL YR 1969 TOTAL 373312 MEAN 1023 MAX 15000 MIN 24 AC-FT 740500
WTR YR 1970 TOTAL 258251 MEAN 708 MAX 15600 MIN 15 AC-FT 512200

11401940 MILL CREEK NEAR QUINCY, CALIF.

LOCATION.--Lat 39°56'03", long 120°54'18", in NE¼NW¼ sec.19, T.24 N., R.10 E., Plumas County, on left bank at culvert on State Highways 70 and 89, 2.2 miles east of Quincy.

DRAINAGE AREA.--6.72 sq mi.

PERIOD OF RECORD.--Annual maximums, water years 1963-65. October 1965 to September 1970.

GAGE.--Water-stage recorder and crest-stage gage with culvert control. Altitude of gage is 3,500 ft (from topographic map). Prior to Oct. 1, 1965, crest-stage gage and Oct. 1, 1965, to July 24, 1967, water-stage recorder, at site 38 ft downstream at datum 0.55 ft lower.

AVERAGE DISCHARGE.--5 years, 8.63 cfs (6,250 acre-ft per year).

EXTREMES.--*Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:*

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 2, 1966	45	2.16	Long periods	0
1967	Jan. 29, 1967	326	4.64	do.	0
1968	Feb. 20, 1968	69	2.41	do.	0
1969	Jan. 26, 1969	313	4.51	do.	0
1970	Jan. 14, 24, 1970	422	4.79	do.	0

Period of record: Maximum discharge, 601 cfs Dec. 22, 1964 (gage height, 7.02 ft, site and datum then in use), from rating curve extended above 220 cfs on basis of computation of flow through culvert at gage heights 5.53 and 7.02 ft; no flow for several months in each year.

REMARKS.--Records fair. Some diversion for irrigation above station. Rainfall data are available in files of the district office.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	3.9	3.0	1.4	2.1	12	6.7	0		0	
2		0	3.7	7.0	1.3	1.9	12	6.3	0		0	
3		0	3.5	2.3	1.3	1.2	11	6.7	0		0	
4		0	3.5	3.9	1.4	1.2	10	7.1	0		0	
5		0	3.5	6.3	1.9	1.9	10	7.4	.40		0	
6		0	3.2	6.3	2.1	2.1	12	7.1	1.0		0	
7		0	3.0	4.7	1.9	2.5	12	6.7	1.0		0	
8		0	2.7	4.2	1.5	2.7	12	7.1	.70		0	
9		0	1.9	3.9	1.9	4.9	12	7.1	0		0	
10		0	1.0	3.5	1.8	7.4	15	7.1	0		0	
11		0	1.2	3.0	1.2	6.7	14	5.6	0		0	
12		0	1.3	2.5	1.6	5.6	12	5.3	0		0	
13		.10	1.2	2.3	1.2	24	10	4.9	0		0	
14		.50	1.0	2.1	1.2	17	9.5	4.9	0		0	
15		0	.60	1.9	1.3	14	9.0	5.6	0		0	
16		0	.60	1.9	1.2	12	10	4.2	0		0	
17		2.4	.60	1.7	1.3	8.5	10	3.5	0		0	
18		5.3	.80	1.6	1.8	7.4	10	3.2	0		0	
19		1.3	1.0	1.0	2.1	7.1	8.5	3.2	0		0	
20		.80	1.2	.80	1.9	6.7	8.1	3.2	0		.10	
21		.30	1.2	.60	1.9	5.6	8.1	3.2	0		.60	
22		.20	1.2	.80	1.9	5.6	7.8	3.7	0		.40	
23		.50	1.2	1.2	2.5	5.6	7.1	3.5	0		0	
24		1.6	1.1	1.1	3.0	4.9	7.1	3.2	0		0	
25		.70	1.1	1.1	2.5	4.9	7.4	3.0	0		0	
26		.40	1.1	1.1	2.3	5.3	7.4	2.7	0		0	
27		.40	1.2	1.1	2.1	6.0	7.1	1.7	0		0	
28		.30	2.2	.90	2.1	6.7	7.1	0	0		0	
29		.70	13	1.3	---	7.4	7.1	0	0		0	
30		2.5	2.1	1.4	---	9.0	7.1	0	0		0	
31		---	1.9	1.6	---	10	---	0	---		0	---
TOTAL	0	18.00	66.70	76.10	49.6	207.9	292.4	133.9	3.10	0	1.10	0
MEAN	0	.60	2.15	2.45	1.77	6.71	9.75	4.32	.10	0	.036	0
MAX	0	5.3	13	7.0	3.0	24	15	7.4	1.0	0	.60	0
MIN	0	0	.60	.60	1.2	1.2	7.1	0	0	0	0	0
AC-FT	0	36	132	151	98	412	580	266	6.1	0	2.2	0

WTR YR 1966 TOTAL 848.80 MEAN 2.33 MAX 24 MIN 0 AC-FT 1680

11401940 MILL CREEK NEAR QUINCY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	6.5	2.1	50	4.7	11	7.1	36	10		
2	0	0	10	2.1	27	4.7	11	7.8	30	8.5		
3	0	0	4.4	2.1	17	4.7	10	8.5	27	8.1		
4	.20	0	3.5	2.1	12	4.2	10	10	26	7.8		
5	.10	0	41	1.9	9.5	3.7	10	11	27	7.8		
6	0	.70	20	1.8	8.5	3.5	10	12	27	7.1		
7	0	.40	10	1.8	8.1	3.2	10	17	28	7.1		
8	0	.20	7.4	1.8	7.4	3.2	10	26	28	6.7		
9	0	.10	5.8	1.8	7.1	3.2	10	30	28	6.3		
10	0	0	6.0	1.8	6.7	3.9	10	30	28	6.0		
11	0	.20	5.5	1.9	6.7	4.7	9.0	24	28	5.6		
12	0	.50	5.0	2.1	6.7	4.7	8.5	21	28	4.7		
13	0	.30	5.3	2.1	7.4	4.2	9.0	19	28	4.4		
14	0	.40	5.6	2.1	7.8	3.9	10	21	27	4.7		
15	0	1.7	4.4	2.1	7.4	4.7	9.0	27	26	5.6		
16	0	5.9	4.4	2.1	7.1	42	8.5	36	26	6.0		
17	0	2.5	4.4	2.1	6.3	54	9.0	42	26	1.9		
18	0	1.9	4.2	2.1	6.3	32	8.5	47	27	.70		
19	0	3.9	3.9	2.1	6.0	23	8.1	49	26	0		
20	0	7.7	3.9	4.4	5.6	19	7.8	56	26	0		
21	0	3.7	3.7	80	5.3	19	7.8	63	23	0		
22	0	1.8	3.5	56	4.9	19	7.8	67	22	0		
23	0	1.1	3.2	18	4.9	40	7.8	68	19	0		
24	0	.80	3.0	12	4.9	26	7.8	69	16	0		
25	0	.60	3.0	10	4.9	20	7.8	63	15	0		
26	0	.60	2.7	8.0	4.9	17	7.8	60	13	0		
27	0	.50	2.7	9.4	4.9	15	7.8	57	12	0		
28	0	3.5	2.5	35	4.7	15	7.4	54	12	0		
29	.10	6.4	2.5	110	---	14	7.1	54	11	0		
30	0	3.5	2.3	54	---	13	7.1	47	10	0		
31	0	---	2.1	73	---	12	---	41	---	0		---
TOTAL	.40	48.90	192.4	507.8	260.0	441.2	265.6	1144.4	706	109.00	0	0
MEAN	.013	1.63	6.21	16.4	9.29	14.2	8.85	36.9	23.5	3.52	0	0
MAX	.20	7.7	41	110	50	54	11	69	36	10	0	0
MIN	0	0	2.1	1.8	4.7	3.2	7.1	7.1	10	0	0	0
AC-FT	.8	97	382	1010	516	875	527	2270	1400	216	0	0

CAL YR 1966 TOTAL 1005.80 MEAN 2.76 MAX 41 MIN 0 AC-FT 2000
WTR YR 1967 TOTAL 3675.70 MEAN 10.1 MAX 110 MIN 0 AC-FT 7290

NOTE.--NO GAGE-HEIGHT RECORD JAN. 21-31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	0	.10	5.5	17	16	7.4	1.6			
2		0	0	0	5.5	16	14	7.4	1.4			
3		0	0	0	6.9	14	13	8.5	1.2			
4		0	1.8	0	5.2	14	12	8.5	1.1			
5		0	2.1	0	4.8	14	12	7.9	.84			
6		0	.84	0	4.4	13	12	6.9	.84			
7		0	1.7	.10	4.8	12	11	6.0	.51			
8		0	.84	.20	5.2	13	10	5.6	.17			
9		0	.40	1.0	6.0	12	10	6.0	0			
10		0	.19	10	8.5	11	12	6.0	0			
11		0	.14	8.0	8.5	10	13	5.6	0			
12		0	.05	6.0	7.9	10	12	5.2	0			
13		0	0	5.0	7.9	10	12	5.2	.52			
14		1.4	0	24	7.4	10	10	4.4	.49			
15		0	.40	39	6.9	10	10	4.1	0			
16		0	.30	16	7.4	13	10	2.7	0			
17		0	.20	9.1	14	13	9.1	2.3	0			
18		.13	.40	6.4	15	12	9.7	2.3	0			
19		7.7	.30	4.8	21	10	9.1	2.7	0			
20		5.6	.10	4.1	47	9.7	8.5	3.5	0			
21		.44	0	3.5	49	9.1	8.5	3.2	0			
22		0	0	3.2	35	9.1	7.4	3.2	0			
23		0	.10	3.0	35	8.5	6.0	2.7	0			
24		0	.20	3.0	33	9.1	6.4	2.1	0			
25		0	.20	3.0	27	12	6.4	2.1	0			
26		0	.30	2.3	24	12	6.9	1.9	0			
27		0	.40	1.7	22	12	6.9	2.1	0			
28		0	.50	1.7	20	12	6.9	1.9	0			
29		.20	.60	1.8	18	14	7.4	1.9	0			
30		1.5	.40	2.0	---	16	7.4	1.9	0			
31		---	.20	6.0	---	16	---	1.7	---			---
TOTAL	0	16.97	12.66	165.00	462.8	373.5	295.6	132.9	8.67	0	0	0
MEAN	0	.57	.41	5.32	16.0	12.0	9.85	4.29	.29	0	0	0
MAX	0	7.7	2.1	39	49	17	16	8.5	1.6	0	0	0
MIN	0	0	0	0	4.4	8.5	6.0	1.7	0	0	0	0
AC-FT	0	34	25	327	918	741	586	264	17	0	0	0

CAL YR 1967 TOTAL 3463.63 MEAN 9.49 MAX 110 MIN 0 AC-FT 6870
WTR YR 1968 TOTAL 1468.10 MEAN 4.01 MAX 49 MIN 0 AC-FT 2910

11401940 MILL CREEK NEAR QUINCY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	.19	17	11	40	29	21	5.6		
2	0	.04	0	.19	14	10	35	28	20	3.8		
3	0	.19	0	.14	13	9.7	30	28	19	2.3		
4	0	0	0	.19	12	9.7	25	26	18	1.2		
5	0	0	0	.19	12	9.7	35	27	17	0		
6	0	.05	0	.19	11	9.7	31	32	16	0		
7	0	.25	0	.25	10	9.1	28	37	15	0		
8	0	.19	0	.41	10	9.1	25	44	15	0		
9	0	.25	.22	.32	14	8.5	22	53	16	0		
10	0	.41	10	.25	15	8.2	21	54	15	0		
11	.09	1.2	6.4	1.2	20	7.8	24	54	17	0		
12	.15	2.1	2.5	5.4	30	7.5	27	57	16	0		
13	0	.61	1.6	111	22	7.5	31	53	15	0		
14	0	.41	1.7	50	18	7.5	29	42	15	0		
15	0	.25	11	25	25	8.0	27	39	14	0		
16	0	.14	6.4	14	22	9.0	25	42	13	0		
17	0	.01	2.7	12	19	11	25	45	13	0		
18	0	.84	1.4	12	17	13	26	45	16	0		
19	0	.72	1.4	48	15	14	26	41	15	0		
20	0	.32	.84	172	14	14	27	38	13	0		
21	0	.14	.40	252	13	14	34	36	13	0		
22	0	.03	.80	104	12	14	39	34	12	0		
23	0	0	2.0	59	11	16	41	34	11	0		
24	0	.38	5.0	44	11	16	34	34	9.1	0		
25	0	.03	10	69	10	17	29	32	8.5	0		
26	0	0	2.5	167	10	18	26	30	8.5	0		
27	0	0	1.4	72	9.7	20	24	28	7.9	0		
28	0	0	1.1	50	12	22	25	26	7.9	0		
29	0	0	.72	35	---	25	30	24	6.4	0		
30	0	0	.51	25	---	35	31	22	6.4	0		
31	0	---	.25	20	---	45	---	22	---	0		---
TOTAL	.24	8.56	70.84	1349.92	418.7	436.0	872	1136	409.7	12.9	0	0
MEAN	.008	.29	2.29	43.5	15.0	14.1	29.1	36.6	13.7	.42	0	0
MAX	.15	2.1	11	252	30	45	41	57	21	5.6	0	0
MIN	0	0	0	.14	9.7	7.5	21	22	6.4	0	0	0
AC-FT	.5	17	141	2680	830	865	1730	2250	813	26	0	0

CAL YR 1968 TOTAL 1518.11 MEAN 4.15 MAX 49 MIN 0 AC-FT 3010
WTR YR 1969 TOTAL 4714.86 MEAN 12.9 MAX 252 MIN 0 AC-FT 9350

NOTE.--NO GAGE-HEIGHT RECORD JAN. 28 TO APR. 14, MAY 21 TO JUNE 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	.60	16	64	28	14	3.4	1.5			
2	0	0	.60	14	56	22	14	3.4	1.5			
3	0	0	.60	13	44	19	14	4.0	1.6			
4	0	0	.60	12	36	18	12	4.5	1.5			
5	0	.74	.60	12	34	17	10	5.0	1.4			
6	0	1.4	.86	11	31	17	11	5.0	.82			
7	0	2.6	.86	10	30	18	11	4.5	.48			
8	0	2.4	.86	9.4	28	26	10	4.5	.38			
9	0	1.6	.60	26	26	24	7.3	4.5	.34			
10	0	1.4	.60	33	25	22	6.8	4.2	.48			
11	0	1.4	2.0	18	25	21	6.8	3.0	.33			
12	0	1.4	10	17	32	20	6.8	2.6	.13			
13	0	1.4	8.9	59	31	20	6.5	2.2	.04			
14	0	1.4	2.9	267	28	25	6.5	2.1	.22			
15	.01	1.2	2.2	110	25	23	6.5	2.4	.14			
16	.04	1.4	2.2	164	28	22	6.2	3.2	.06			
17	.01	1.0	2.2	161	31	21	4.5	4.0	0			
18	0	.86	2.6	93	26	20	4.2	4.2	0			
19	0	.86	14	69	23	19	4.2	3.7	0			
20	0	.86	29	58	21	18	4.0	3.2	0			
21	0	.86	67	145	19	17	3.7	3.0	0			
22	0	.72	26	249	17	17	3.4	3.0	0			
23	0	.72	23	213	17	17	3.4	3.0	0			
24	0	.72	73	271	16	18	3.4	3.0	0			
25	0	.72	48	159	16	17	3.4	3.0	0			
26	0	.72	28	133	15	17	4.2	3.0	0			
27	0	.72	21	158	14	16	3.7	3.0	0			
28	0	.60	16	122	17	16	3.4	2.8	0			
29	0	.60	16	98	---	16	3.4	2.4	0			
30	0	.60	16	81	---	16	3.4	2.1	0			
31	0	---	15	72	---	14	---	1.6	---			---
TOTAL	.06	28.90	431.78	2873.4	775	601	201.7	103.5	10.92	0	0	0
MEAN	.002	.96	13.9	92.7	27.7	19.4	6.72	3.34	.36	0	0	0
MAX	.04	2.6	73	271	64	28	14	5.0	1.6	0	0	0
MIN	0	0	.60	9.4	14	14	3.4	1.6	0	0	0	0
AC-FT	.1	57	856	5700	1540	1190	400	205	22	0	0	0

CAL YR 1969 TOTAL 5095.96 MEAN 14.0 MAX 252 MIN 0 AC-FT 10110
WTR YR 1970 TOTAL 5026.26 MEAN 13.8 MAX 271 MIN 0 AC-FT 9970

11402000 SPANISH CREEK ABOVE BLACKHAWK CREEK, AT KEDDIE, CALIF.

LOCATION.--Lat 40°00'11", long 120°57'12", in NE¼ sec.27, T.25 N., R.9 E., Plumas County, on right bank 200 ft upstream from Blackhawk Creek and 0.9 mile southeast of Keddie.

DRAINAGE AREA.--184 sq mi.

PERIOD OF RECORD.--October 1933 to September 1970. Prior to October 1953, published as "at Keddie." Records for October 1911 to September 1933 at site 1.2 miles downstream not equivalent owing to inflow.

GAGE.--Water-stage recorder. Datum of gage is 3,129.86 ft (revised) above mean sea level (from topographic map).

AVERAGE DISCHARGE.--37 years, 267 cfs (193,400 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (1,700 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Mar. 12, 1966	2400	*1,310	4.73	Jan. 15, 1968	0530	2,450	5.87	Dec. 21, 1969	1600	5,000	7.87
				Feb. 21, 1968	0900	*3,340	6.62	Dec. 24, 1969	0700	4,220	7.30
Dec. 2, 1966	2230	2,170	5.62					Jan. 10, 1970	0030	2,540	5.95
Dec. 5, 1966	0630	3,000	6.34	Jan. 13, 1969	1500	4,930	7.82	Jan. 14, 1970	1330	10,700	11.24
Jan. 21, 1967	1945	8,370	9.95	Jan. 21, 1969	1115	*12,300	12.08	Jan. 16, 1970	1800	6,660	8.95
Jan. 29, 1967	1000	*9,000	10.30	Jan. 26, 1969	0700	12,100	11.98	Jan. 22, 1970	0330	7,300	9.33
Mar. 16, 1967	2045	4,830	7.75	Mar. 31, 1969	2030	2,150	5.54	Jan. 24, 1970	0245	*12,400	12.14
Mar. 23, 1967	1030	1,790	5.25	Apr. 5, 1969	1230	1,740	5.14	Jan. 27, 1970	0600	4,960	7.77
May 21, 1967	2215	2,010	5.43	Apr. 23, 1969	0845	1,720	5.12				

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Aug. 19-21, 1966	11	1969	Oct. 1, 1968	23
1967	Oct. 1, 1966	20	1970	Aug. 15, 1970	19
1968	Aug. 18, Sept. 18, 1968	20			

Period of record: Maximum discharge, 15,400 cfs Dec.22, 1964 (gage height, 13.53 ft), from rating curve extended above 4,400 cfs on basis of slope-area measurement at gage height 12.47 ft; minimum, 3.8 cfs Aug. 12, 1934.

REMARKS.--Records good. Flow regulated by five small reservoirs having a combined capacity of 800 acre-ft. Approximately 4,600 acres irrigated above station (from information furnished by U.S. Forest Service). City of Quincy diverts about 450 acre-ft annually for municipal supply. See schematic diagram of North Fork Feather River basin elsewhere in this report.

REVISIONS (WATER YEARS).--WSP 1041: 1938(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	46	111	118	116	160	1030	301	90	28	21	14
2	44	46	107	108	113	147	1060	293	86	24	16	15
3	46	46	103	110	112	139	880	296	81	39	14	16
4	45	46	103	180	125	132	780	299	83	35	18	17
5	44	48	104	530	162	134	740	316	82	32	20	14
6	43	49	102	520	218	149	750	312	84	27	21	14
7	43	49	99	407	180	202	730	287	90	29	18	19
8	41	58	96	347	158	232	720	278	84	33	19	21
9	41	57	93	309	141	399	760	287	80	30	18	18
10	41	53	92	242	139	590	930	330	74	35	13	19
11	42	53	92	200	128	482	950	287	68	30	15	21
12	42	55	99	178	126	570	760	245	62	33	18	19
13	44	59	96	162	118	1120	610	221	56	30	15	17
14	43	187	88	151	117	769	544	201	56	33	16	21
15	45	162	82	145	114	673	535	187	55	29	17	22
16	44	118	78	143	111	600	565	177	49	25	15	19
17	49	229	71	136	112	500	622	161	38	24	14	20
18	47	808	71	130	115	500	622	155	43	29	12	19
19	45	316	72	126	141	520	491	157	43	26	11	26
20	46	178	69	115	153	480	416	151	38	25	11	27
21	47	141	78	111	151	470	387	140	38	26	11	25
22	47	123	80	121	162	470	368	131	39	26	12	29
23	41	134	70	113	221	470	354	115	47	26	13	28
24	42	372	91	110	257	500	368	125	47	20	15	25
25	44	234	123	107	202	570	395	105	44	19	21	21
26	41	168	103	106	178	670	411	105	38	19	17	31
27	34	147	95	104	164	780	364	105	38	17	17	30
28	42	134	170	99	162	870	333	101	35	16	17	26
29	46	123	180	108	---	920	316	94	35	17	16	25
30	46	116	143	134	---	960	302	92	32	22	15	20
31	46	---	132	123	---	980	---	92	---	32	16	---
TOTAL	1354	4355	3093	5593	4196	16158	18093	6146	1735	836	492	638
MEAN	43.7	145	99.8	180	150	521	603	198	57.8	27.0	15.9	21.3
MAX	49	808	180	530	257	1120	1060	330	90	39	21	31
MIN	34	46	69	99	111	132	302	92	32	16	11	14
AC-FT	2690	8640	6130	11090	8320	32050	35890	12190	3440	1660	976	1270

CAL YR 1965 TOTAL 113212 MEAN 310 MAX 4640 MIN 30 AC-FT 224600
WTR YR 1966 TOTAL 62689 MEAN 172 MAX 1120 MIN 11 AC-FT 124300

11402000 SPANISH CREEK ABOVE BLACKHAWK CREEK, AT KEDDIE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	35	484	108	1450	249	505	317	805	211	63	37
2	22	35	983	105	958	255	460	353	666	197	61	34
3	25	35	1020	103	734	259	455	421	605	187	64	40
4	25	37	691	103	609	239	460	511	616	174	67	40
5	24	38	2160	105	540	220	442	562	649	159	62	39
6	24	64	901	96	490	212	510	585	636	150	56	34
7	25	82	594	97	451	214	560	786	648	146	52	36
8	26	60	462	95	419	220	505	1130	678	139	47	35
9	26	52	358	93	391	233	505	1310	664	132	44	37
10	27	50	375	93	386	296	515	1210	657	121	45	43
11	30	51	351	93	381	594	485	871	637	122	46	43
12	28	52	306	93	415	419	432	765	649	114	42	41
13	28	54	354	92	511	364	432	705	638	107	37	41
14	30	52	427	92	580	327	465	768	578	102	42	41
15	30	95	329	93	467	320	424	998	561	101	46	41
16	31	346	275	95	404	3230	383	1290	569	103	41	40
17	32	122	237	94	357	2890	401	1460	571	103	37	40
18	34	89	213	93	337	1810	460	1480	600	97	32	44
19	35	136	196	92	317	1300	423	1480	657	90	32	43
20	36	978	186	212	287	1040	386	1580	597	75	30	35
21	35	599	175	4410	268	1020	374	1680	540	71	35	37
22	37	389	164	2520	256	1030	355	1720	480	81	37	40
23	35	196	156	843	252	1460	349	1680	428	79	35	44
24	34	147	151	580	251	1150	364	1620	389	70	33	44
25	33	124	143	435	265	896	356	1400	362	69	38	43
26	34	112	135	363	242	744	350	1230	336	71	36	41
27	34	104	126	414	233	638	365	1140	301	70	36	43
28	34	211	120	1390	236	616	355	1050	276	61	35	46
29	34	720	117	5800	---	580	327	943	259	51	30	42
30	34	362	115	2850	---	540	318	863	232	56	36	43
31	35	---	111	2620	---	545	---	831	---	82	45	---
TOTAL	937	5427	12415	24272	12487	23910	12721	32739	16284	3391	1342	1207
MEAN	30.2	181	400	783	446	771	424	1056	543	109	43.3	40.2
MAX	37	978	2160	5800	1450	3230	560	1720	805	211	67	46
MIN	20	35	111	92	233	212	318	317	232	51	30	34
AC-FT	1860	10760	24630	48140	24770	47430	25230	64940	32300	6730	2660	2390

CAL YR 1966 TOTAL 72666 MEAN 199 MAX 2160 MIN 11 AC-FT 144100
WTR YR 1967 TOTAL 147132 MEAN 403 MAX 5800 MIN 20 AC-FT 291800

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	56	81	81	120	583	638	294	108	34	30	22
2	72	57	79	79	134	532	541	286	106	35	29	21
3	143	58	91	69	148	505	464	289	106	39	28	23
4	72	57	148	70	150	489	435	291	105	37	28	23
5	65	56	463	74	152	516	436	285	101	36	27	24
6	63	56	175	72	153	474	405	251	124	36	24	24
7	60	56	237	75	166	429	379	215	136	35	24	25
8	58	56	157	75	191	457	364	200	113	31	24	26
9	58	56	121	85	260	414	372	202	103	29	24	25
10	57	56	107	339	396	359	411	203	96	30	23	25
11	56	55	102	176	337	320	466	197	90	30	25	27
12	55	56	95	120	337	323	479	189	87	31	22	27
13	55	56	78	113	361	439	428	201	84	28	23	26
14	54	70	73	167	309	493	392	184	80	30	21	27
15	53	69	85	1640	264	476	391	171	68	31	22	26
16	55	62	85	708	250	700	389	163	59	32	23	25
17	54	60	82	349	649	672	333	158	61	30	25	22
18	54	61	84	229	744	534	309	157	55	32	20	20
19	54	129	87	184	844	446	290	159	48	30	24	23
20	54	96	83	158	2300	408	275	182	40	26	31	25
21	54	85	79	145	2500	397	258	170	40	26	47	26
22	54	78	81	138	1740	391	237	184	42	27	47	26
23	56	74	80	136	1760	404	230	181	42	26	40	27
24	55	70	80	134	1400	418	226	172	43	23	38	27
25	56	68	80	132	1000	498	227	156	55	22	35	27
26	56	66	82	127	836	529	235	149	48	24	32	27
27	56	68	88	122	773	466	255	144	44	25	31	27
28	56	73	91	119	710	466	259	132	41	26	29	27
29	55	76	92	112	635	546	285	123	38	25	29	27
30	55	78	86	86	---	643	304	122	36	26	27	26
31	55	---	81	100	---	675	---	116	---	28	25	---
TOTAL	1841	2014	3433	6214	19619	15002	10713	5926	2199	920	877	753
MEAN	59.4	67.1	111	200	677	484	357	191	73.3	29.7	28.3	25.1
MAX	143	129	463	1640	2500	700	638	294	136	39	47	27
MIN	41	55	73	69	120	320	226	116	36	22	20	20
AC-FT	3650	3990	6810	12330	38910	29760	21250	11750	4360	1820	1740	1490

CAL YR 1967 TOTAL 135641 MEAN 372 MAX 5800 MIN 30 AC-FT 269000
WTR YR 1968 TOTAL 69511 MEAN 190 MAX 2500 MIN 20 AC-FT 137900

11402000 SPANISH CREEK ABOVE BLACKHAWK CREEK, AT KEDDIE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	47	82	122	488	367	1650	997	460	118	48	36
2	25	53	75	119	423	346	1320	911	432	99	49	34
3	26	113	71	119	373	316	1020	912	414	93	49	30
4	29	99	70	120	349	300	890	769	399	97	47	31
5	30	72	70	121	360	309	1430	812	384	93	41	31
6	27	64	69	121	345	315	1170	1030	358	84	36	31
7	28	57	69	122	303	288	881	1180	318	82	35	30
8	29	53	71	135	286	275	788	1270	317	73	38	29
9	29	51	72	120	421	268	767	1420	340	97	38	34
10	30	49	417	110	464	251	757	1420	297	89	37	33
11	31	52	456	140	653	245	869	1370	347	85	42	33
12	80	294	191	443	865	237	1060	1380	317	88	39	35
13	76	125	143	3470	615	229	1130	1300	282	77	39	35
14	58	97	192	1630	525	228	971	1120	306	78	39	35
15	57	94	656	698	770	237	802	942	279	73	39	36
16	55	89	421	452	668	273	788	914	263	72	34	37
17	48	84	213	335	550	350	870	952	242	68	32	36
18	47	112	164	281	492	425	1150	971	309	68	32	37
19	43	125	144	2140	449	430	1050	909	270	69	33	39
20	41	100	124	6660	416	427	1090	807	227	69	32	41
21	40	89	103	10400	371	421	1280	751	203	63	33	39
22	40	84	107	4070	341	434	1480	743	192	60	30	39
23	40	82	118	1620	341	510	1620	757	184	56	28	40
24	39	93	214	1020	330	554	1230	737	176	55	30	40
25	39	94	453	1790	313	568	930	674	156	58	32	39
26	39	84	299	6630	295	609	810	647	145	54	36	38
27	39	81	206	2220	273	709	764	587	140	51	35	38
28	39	77	175	1310	347	894	810	533	131	51	35	39
29	40	74	158	864	---	1090	1060	488	123	52	36	38
30	63	82	142	684	---	1340	1130	473	127	51	35	38
31	53	---	129	551	---	1760	---	479	---	47	34	---
TOTAL	1283	2670	5874	48617	12426	15005	31567	28255	8138	2270	1143	1071
MEAN	41.4	89.0	189	1568	444	484	1052	911	271	73.2	36.9	35.7
MAX	80	294	656	10400	865	1760	1650	1420	460	118	49	41
MIN	23	47	69	110	273	228	757	473	123	47	28	29
AC-FT	2540	5300	11650	96430	24650	29760	62610	56040	16140	4500	2270	2120

CAL YR 1968 TOTAL 72050 MEAN 197 MAX 2500 MIN 20 AC-FT 142900
WTR YR 1969 TOTAL 158319 MEAN 434 MAX 10400 MIN 23 AC-FT 314000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	59	61	203	718	1270	253	202	172	74	31	24
2	38	59	61	182	620	875	248	200	168	68	29	23
3	39	59	61	164	561	648	244	216	165	65	30	23
4	39	59	61	159	521	583	238	243	150	61	29	22
5	40	138	60	143	478	540	236	261	146	58	28	26
6	42	126	61	137	444	502	244	271	140	56	27	28
7	43	108	61	139	417	494	242	246	130	55	27	25
8	48	121	63	153	397	889	240	242	124	51	27	26
9	51	93	67	618	382	740	238	246	128	44	27	24
10	48	84	73	1580	364	651	246	304	142	44	27	24
11	48	79	140	690	360	552	262	255	125	45	26	26
12	47	76	559	604	528	493	241	245	116	46	26	27
13	48	75	496	2010	683	491	239	234	117	44	26	25
14	50	73	214	7050	614	592	236	222	121	42	23	26
15	68	72	153	3160	514	610	224	229	122	40	19	28
16	115	73	127	4570	586	538	229	244	112	40	20	27
17	136	70	113	4490	918	502	248	268	100	38	22	27
18	89	68	106	2350	630	444	231	281	89	37	22	27
19	73	67	839	1540	532	406	241	278	87	37	21	28
20	67	67	1360	1390	474	379	221	255	84	37	28	29
21	64	67	2990	3480	436	359	209	239	79	38	26	29
22	66	66	1040	5610	407	346	199	237	74	35	24	29
23	61	65	818	4460	386	341	191	238	73	36	25	30
24	60	65	2910	7940	369	340	185	236	64	36	24	28
25	59	64	1700	3210	349	342	183	233	64	33	24	25
26	59	63	932	2020	341	333	202	222	67	30	23	27
27	59	63	561	3460	338	314	220	212	80	30	23	30
28	58	62	402	1910	382	300	203	208	79	30	24	33
29	58	61	317	1340	---	293	193	198	92	31	24	35
30	57	61	262	1050	---	283	198	188	83	30	23	39
31	57	---	225	840	---	268	---	180	---	31	23	---
TOTAL	1826	2263	16893	66652	13749	15718	6784	7333	3293	1342	778	820
MEAN	58.9	75.4	545	2150	491	507	226	237	110	43.3	25.1	27.3
MAX	136	138	2990	7940	918	1270	262	304	172	74	31	39
MIN	38	59	60	137	338	268	183	180	64	30	19	22
AC-FT	3620	4490	33510	132200	27270	31180	13460	14550	6530	2660	1540	1630

CAL YR 1969 TOTAL 169474 MEAN 464 MAX 10400 MIN 28 AC-FT 336200
WTR YR 1970 TOTAL 137451 MEAN 377 MAX 7940 MIN 19 AC-FT 272600

11403000 EAST BRANCH OF NORTH FORK FEATHER RIVER NEAR RICH BAR, CALIF.

LOCATION.--Lat 40°00'38", long 121°13'03", in SW¼NE¼ sec.20, T.25 N., R.7 E., Plumas County, Plumas National Forest, on left bank 0.5 mile upstream from mouth and 1.3 miles west of Rich Bar.

DRAINAGE AREA.--1,025 sq mi.

PERIOD OF RECORD.--October 1950 to September 1961. Annual maximums, water years 1965-67. December 1967 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 2,300 ft (from topographic map). Prior to Nov. 29, 1950, at site 30 ft downstream at present datum.

AVERAGE DISCHARGE.--13 years (1950-61, 1968-70), 1,115 cfs (807,800 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1965-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1965	Dec. 22, 1964	a48,300	16.56	-	-
1966	Mar. 14, 1966	7,090	9.98	-	-
1967	Mar. 18, 1967	16,400	12.12	-	-
1968	Feb. 21, 1968	9,700	10.46	Aug. 16, 1968	66
1969	Jan. 22, 1969	32,200	15.27	Oct. 2, 1968	79
1970	Jan. 24, 1970	30,400	14.10	Aug. 16, 1970	78

a Not previously published.

Period of record: Maximum discharge, 48,300 cfs Dec. 22, 1964 (gage height, 16.56 ft), from rating curve extended above 15,000 cfs on basis of study of upstream and downstream peak discharges; minimum, 39 cfs Sept. 6, 7, 1955, July 28, Aug. 23, 1961.

REMARKS.--No storage or diversion between stations on Indian and Spanish Creeks and station near Rich Bar.

COOPERATION.--Records furnished by Pacific Gas & Electric Co., and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1245: 1951(M).

DISCHARGE, IN CUBIC FEET PER SECOND, DECEMBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			269	294	602	2930	2410	1100	414	112	90	72
2			254	297	587	2650	2180	1050	397	113	87	69
3			280	267	713	2450	1940	1000	377	112	83	70
4			527	254	730	2300	1750	1000	364	115	76	71
5			1400	261	685	2320	1690	1000	348	113	74	74
6			730	267	669	2230	1590	940	377	122	71	75
7			753	274	701	1980	1490	850	439	111	74	73
8			679	299	795	1930	1410	800	414	104	70	75
9			451	294	925	1880	1380	750	377	97	73	77
10			388	789	1390	1670	1440	708	351	94	70	77
11			364	783	1410	1490	1600	680	321	91	68	77
12			338	480	1390	1400	1700	660	293	89	71	79
13			294	417	1530	1660	1610	640	282	90	66	78
14			256	527	1490	1870	1460	620	264	88	68	79
15			399	4070	1300	1720	1420	600	254	89	71	79
16			348	2960	1210	1940	1400	580	229	91	74	77
17			311	1460	1460	2400	1340	550	216	89	76	75
18			294	981	2630	1990	1220	530	201	87	81	72
19			314	789	2490	1680	1120	520	181	90	84	69
20			299	690	6880	1510	1050	580	163	82	96	73
21			280	627	8320	1480	980	560	138	77	120	77
22			288	597	8310	1480	940	600	135	77	115	78
23			285	578	7540	1490	900	630	141	81	110	79
24			283	568	7960	1520	880	645	127	78	115	80
25			288	554	6190	1610	860	611	130	75	110	81
26			294	545	4780	1950	860	574	133	74	100	82
27			308	522	4040	1760	880	548	130	76	90	82
28			326	509	3630	1680	920	518	124	78	84	83
29			329	505	3230	1850	980	466	121	79	80	81
30			317	451	---	2190	1050	439	116	76	78	81
31			294	484	---	2410	---	428	---	87	76	---
TOTAL			12240	22393	83587	59420	40450	21177	7557	2837	2601	2295
MEAN			395	722	2882	1917	1348	683	252	91.5	83.9	76.5
MAX			1400	4070	8320	2930	2410	1100	439	122	120	83
MIN			254	254	587	1400	860	428	116	74	66	69
AC-FT			24280	44420	165800	117900	80230	42000	14990	5630	5160	4550

NOTE.--NO GAGE-HEIGHT RECORD APR. 19 TO MAY 23.

11403000 EAST BRANCH OF NORTH FORK FEATHER RIVER NEAR RICH BAR, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	150	238	479	2320	1250	8730	4620	1640	362	148	109
2	79	175	231	470	1980	1190	8130	4370	1540	350	136	106
3	80	265	209	461	1710	1130	6550	4210	1460	324	126	110
4	79	312	202	465	1560	1050	5390	3900	1390	327	124	115
5	83	233	202	470	1570	1060	6070	3820	1360	318	123	107
6	84	200	204	474	1520	1110	5810	4210	1280	310	120	109
7	85	179	202	474	1330	1030	4680	4680	1150	318	124	109
8	88	159	207	520	1240	1010	4170	5020	1100	288	120	110
9	89	154	211	497	1500	991	4150	5490	1310	299	120	111
10	90	150	859	428	1750	945	4230	5680	1190	296	120	115
11	97	193	1520	539	2160	914	4600	5710	1210	304	120	120
12	157	708	771	1240	3100	889	5200	5730	1250	294	120	124
13	226	511	549	6020	2530	859	5730	5530	1120	276	119	129
14	193	332	650	5030	2150	841	5490	4970	1080	261	119	127
15	183	297	1520	2460	2590	853	4680	4250	1070	242	118	130
16	173	273	1550	1630	2470	926	4270	3900	991	231	114	129
17	163	254	873	1260	2070	1120	4370	3860	914	224	116	126
18	148	294	633	1080	1850	1430	5150	3840	945	214	115	122
19	143	381	549	3310	1690	1560	5180	3610	1010	194	110	116
20	138	319	453	11300	1550	1570	5250	3170	877	188	109	124
21	136	279	639	26000	1380	1550	5660	3040	767	184	98	124
22	140	257	765	16600	1250	1560	6310	2930	703	180	103	122
23	147	246	727	7480	1290	1800	4620	2920	649	177	107	124
24	136	251	690	4990	1230	2030	4310	2810	602	186	109	124
25	133	282	656	4750	1150	2160	5020	2610	562	177	112	122
26	132	251	627	12700	1100	2410	4510	2450	508	159	112	122
27	130	233	600	9200	1050	2930	4030	2270	484	156	109	129
28	128	223	574	6210	1160	3750	3880	2070	450	154	104	129
29	147	216	549	4320	---	4530	4450	1900	436	150	105	131
30	179	228	525	3230	---	5510	4790	1830	398	150	105	136
31	169	---	501	2580	---	7190	---	1780	---	153	110	---
TOTAL	4037	8005	18686	136667	48250	57148	155410	117180	29446	7446	3595	3611
MEAN	130	267	603	4409	1723	1843	5180	3780	982	240	116	120
MAX	226	708	1550	26000	3100	7190	8730	5730	1640	362	148	136
MIN	79	150	202	428	1050	841	3880	1780	398	150	98	106
AC-FT	8010	15880	37060	271100	95700	113400	308300	232400	58410	14770	7130	7160

CAL YR 1968 TOTAL 273045 MEAN 746 MAX 8320 MIN 66 AC-FT 541600
WTR YR 1969 TOTAL 589481 MEAN 1615 MAX 26000 MIN 79 AC-FT 1169000

NOTE.--NO GAGE-HEIGHT RECORD AUG. 8 TO SEPT. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	125	170	181	834	2840	2940	1300	1060	891	411	109	81
2	125	172	181	744	2430	2770	1270	1080	822	378	107	83
3	122	170	183	642	2160	2290	1240	1110	785	331	99	80
4	122	170	181	573	1990	2100	1220	1160	735	303	99	80
5	129	272	179	531	1870	2030	1240	1200	692	288	101	79
6	129	370	177	502	1840	1930	1240	1250	662	260	102	84
7	132	308	181	483	1810	1960	1250	1300	630	234	101	86
8	136	311	185	805	1770	2730	1250	1300	599	219	97	83
9	149	277	190	1700	1740	2820	1260	1350	622	204	90	86
10	152	245	208	4150	1670	2540	1300	1510	630	193	87	86
11	146	229	308	2620	1650	2250	1360	1450	610	191	87	90
12	139	221	976	2020	1890	2040	1300	1410	579	170	87	93
13	136	217	1020	4040	2440	2030	1290	1390	606	159	88	94
14	139	212	522	12800	2300	2210	1270	1360	626	147	86	93
15	160	210	393	7950	2070	2440	1240	1320	599	143	83	94
16	236	212	334	9550	2050	2280	1210	1350	568	143	78	96
17	314	214	300	12900	2860	2200	1190	1360	535	135	79	94
18	306	208	290	9330	2390	2040	1160	1460	504	129	84	88
19	241	202	1420	6160	2110	1900	1140	1450	477	127	87	87
20	212	200	2770	5050	1930	1780	1110	1360	451	125	84	94
21	198	198	5650	7890	1820	1720	1080	1290	432	121	94	94
22	190	198	3390	15200	1750	1670	1040	1270	417	127	81	96
23	190	196	2160	14900	1690	1640	1000	1250	399	133	80	97
24	185	192	5260	28800	1640	1650	963	1210	384	131	84	97
25	179	192	4040	16800	1590	1680	927	1170	370	123	83	91
26	176	190	2880	9290	1590	1660	1000	1140	335	119	84	91
27	174	189	1910	10500	1620	1600	1100	1130	384	118	84	93
28	174	187	1440	8320	1700	1520	1030	1110	454	116	84	96
29	172	183	1140	5800	---	1500	1030	1080	464	114	84	99
30	172	181	1050	4360	---	1460	1030	996	454	111	87	102
31	172	---	931	3250	---	1400	---	932	---	106	86	---
TOTAL	5332	6496	40030	208494	55210	62780	35040	38808	16716	5609	2766	2707
MEAN	172	217	1291	6726	1972	2025	1168	1252	557	181	89.2	90.2
MAX	314	370	5650	28800	2860	2940	1360	1510	891	411	109	102
MIN	122	170	177	483	1590	1400	927	932	335	106	78	79
AC-FT	10580	12880	79400	413500	109500	124500	69500	76980	33160	11130	5490	5370

CAL YR 1969 TOTAL 610611 MEAN 1673 MAX 26000 MIN 98 AC-FT 1211000
WTR YR 1970 TOTAL 479988 MEAN 1315 MAX 28800 MIN 78 AC-FT 952100

11403500 BUCKS LAKE NEAR BUCKS LODGE, CALIF.

LOCATION.--Lat 39°53'45", long 121°12'10", in NW¼ sec.33, T.24 N., R.7 E., Plumas County, Plumas National Forest, in intake tower No.2 upstream from dam on Bucks Creek, 2 miles northwest of Bucks Lodge and 15 miles west of Quincy.

DRAINAGE AREA.--28.6 sq mi.

PERIOD OF RECORD.--1927-28 (year-end contents only, published in WSP 1315-A), October 1928 to September 1970. Prior to October 1954, published as Bucks Creek Reservoir near Bucks Ranch.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Feather River Power Co.).

EXTREMES.--Maximums and minimums (contents in acre-feet, elevation in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum		
Wtr yr	Date	Contents	Elevation	Date	Contents	Elevation
1966	July 4, 5, 1966	79,100	5,141.9	Nov. 2-6, 1965	35,700	5,112.6
1967	July 1, 2, 1967	105,300	5,156.8	Jan. 19, 1967	37,100	5,113.7
1968	June 29 to July 1, 1968	86,100	a5,146.06	Dec. 22, 1967	35,700	5,112.59
1969	June 20, 1969	105,000	5,156.65	Jan. 13, 1969	34,100	5,112.30
1970	July 13, 1970	101,600	5,154.83	Dec. 18, 1969	35,400	5,112.37

a Occurred July 1, 1968.

Period of record: Maximum contents, 105,800 acre-ft June 23, 1938 (elevation, 5,157.1 ft); minimum, 12,330 acre-ft Feb. 27, 1929 (elevation, 5,090.7 ft).

REMARKS.--Reservoir is formed by a concrete-faced, rockfill dam completed in 1927; storage began in May 1927. Capacity, 101,700 acre-ft between elevations 5,064.75 (sill of outlet gate) and 5,154.85 ft (spillway crest) above mean sea level. Released water flows down Bucks Creek to Lower Bucks Lake, where it enters tunnel that discharges into Grizzly Creek, thence to Bucks Creek powerhouse. Figures given herein represent total contents, of which 274 acre-ft is not available for release. See schematic diagram of North Fork Feather River basin elsewhere in this report.

COOPERATION.--Record of contents collected by Pacific Gas & Electric Co., under general supervision of the Geological Survey, in connection with a Federal Power Commission project.

Capacity table, water years 1966-70 (elevation, in feet, and contents, in acre-feet)

5,110	32,500	5,125	52,500	5,150	93,000
5,115	38,800	5,130	60,000	5,160	111,200
5,120	45,500	5,140	75,900		

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48600	36000	40200	37000	39400	41800	46800	61200	76200	79000	67400	56200
2	48200	35700	40100	37000	39500	41900	47200	61700	76400	79000	66900	56000
3	47800	35700	39900	37000	39600	42000	47600	62300	76500	79000	66400	55800
4	47300	35700	39800	37000	39900	42100	47900	63000	76700	79100	65900	55600
5	46900	35700	39700	37000	39900	42100	48300	63700	76900	79000	65500	55400
6	46400	35700	39500	37100	40100	42200	48700	64200	77000	78700	65000	55100
7	46000	35800	39400	37300	40100	42300	49200	65100	77200	78500	64600	54900
8	45600	35900	39200	37500	40200	42400	49700	65800	77400	78200	64100	54500
9	45200	35900	39100	37500	40300	42600	50400	66400	77500	78000	63600	54100
10	44700	36000	39000	37700	40300	42700	51200	67200	77700	77800	63100	53600
11	44300	36000	38800	37800	40300	42800	51800	67800	77800	77400	62600	53100
12	43900	36100	38700	38000	40400	43100	52200	68400	77900	76900	61700	52600
13	43400	36700	38600	37800	40500	43400	52500	69000	78000	76400	61700	52200
14	43000	37200	38400	38000	40500	43600	52900	69500	78100	75900	61700	52000
15	42500	37300	38200	38000	40600	43900	53300	70000	78200	75400	62200	52000
16	42100	37500	38000	38100	40600	44100	53900	70500	78300	75000	61700	52000
17	41700	38800	37900	38100	40700	44200	54400	71000	78400	74500	61200	52000
18	41300	39300	37700	38100	40800	44200	54900	71500	78400	74000	60700	52000
19	40900	39500	37600	38200	41000	44400	55300	72000	78400	73500	60300	52000
20	40500	39600	37400	38300	41000	44500	55600	72600	78500	73000	59800	52000
21	40300	39700	37200	38400	41000	44600	56100	73100	78500	72600	59300	52000
22	39900	39800	37000	38500	41200	44700	56600	73400	78600	72200	58700	52000
23	39500	40200	37000	38500	41300	44800	57000	73800	78600	71700	58500	52000
24	39100	40500	37100	38600	41400	44900	57600	74200	78700	71200	58200	52000
25	38700	40600	37100	38700	41500	45100	58200	74500	78700	70900	57900	52000
26	38300	40800	36900	38800	41600	45200	58800	74800	78800	70200	57700	52000
27	37900	40800	36800	38800	41700	45400	59200	75100	78900	69700	57500	51800
28	37500	40500	37000	38900	41700	45600	59700	75300	78900	69200	57200	51600
29	37100	40500	36900	39100	---	45800	60200	75600	78900	68000	57000	51400
30	36700	40300	37000	39200	---	46100	60600	75800	79000	68300	56700	51100
31	36300	---	37000	39300	---	46500	---	76000	---	67800	56500	---
MAX	48600	40800	40200	39300	41700	46500	60600	76000	79000	79100	67400	56200
MIN	36300	35700	36800	37000	39400	41800	46800	61200	76200	67800	56500	51100
(†)	5113.1	5116.2	5113.6	5115.4	5117.2	5120.7	5130.4	5140.0	5141.9	5135.0	5127.7	5124.0
(‡)	-12600	+4000	-3300	+2300	+2400	+4800	+14100	+15400	+3000	-11200	-11300	-5400

CAL YR 1965 MAX 94900 MIN 48900 ‡ -39400
WTR YR 1966 MAX 79100 MIN 35700 ‡ +2200

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11403500 BUCKS LAKE NEAR BUCKS LODGE, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51000	40300	44900	43200	45400	51200	63800	66400	83900	105000	94600	79500
2	50700	39900	45600	42900	45800	51300	64000	66200	84700	105000	94100	79100
3	50500	39500	46300	42500	46000	51500	64300	65900	85400	105000	93600	78600
4	50300	39300	46700	42100	46300	51600	64500	65600	86200	105000	93200	78100
5	50000	39100	47200	41800	46500	51800	64900	65400	87100	105000	92600	77800
6	49800	39100	47700	41500	46700	52000	65300	65100	88000	105000	92100	77500
7	49600	38900	48100	41200	47000	52100	65600	65000	88900	105000	91700	77200
8	49400	38700	48500	40800	47100	52300	65700	65000	90000	105000	91200	76700
9	49100	38500	48700	40500	47300	52400	66000	65100	91100	105000	90700	76200
10	48900	38400	48900	40100	47600	53100	66200	65100	92200	104000	90200	75700
11	48700	38200	49100	39800	47800	53400	66500	65200	93300	104000	89700	75200
12	48200	38100	49200	39500	48000	53900	66600	65300	94400	103000	89300	74700
13	47900	38000	49200	39200	48400	54200	66900	65400	95500	103000	88800	74200
14	47400	37900	49000	38800	48600	54300	67300	65600	96600	102000	88300	73700
15	47000	38600	48700	38500	48800	54700	67500	65900	97700	102000	87800	73200
16	46600	39200	48400	38100	49000	56500	67600	66400	99000	102000	87300	73600
17	46200	39200	48100	37800	49100	57500	67900	67000	100000	101000	86900	72300
18	45700	39100	47800	37500	49300	58200	67900	67700	102000	101000	86400	71800
19	45300	40200	47500	37100	49500	58700	67900	68400	103000	100000	85900	71300
20	44900	41300	47100	37600	49700	59100	67800	69300	104000	99900	85400	70800
21	44600	41700	46800	38800	49800	59500	67700	70300	105000	99500	84900	70400
22	44100	41900	46500	39400	50000	60000	67600	71500	105000	99000	84400	70000
23	43700	42000	46300	39700	50100	60700	67600	72900	105000	98600	83900	69400
24	43100	42100	45900	39900	50400	61100	67600	74600	105000	98200	83500	69000
25	42700	42200	45600	40000	50600	61400	67600	75900	105000	97700	83100	68500
26	42300	42200	45200	40100	50700	60200	67500	77200	105000	97300	82500	68000
27	41900	42300	44900	39700	50800	62000	67600	78500	105000	96800	82000	67500
28	41400	43300	44500	41400	51000	62400	67500	79700	105000	96400	81500	67100
29	41000	44100	44200	43200	---	62700	67100	80900	105000	95900	81100	66600
30	40700	44400	43900	44300	---	63100	66800	81900	105000	95500	80600	66100
31	40300	---	43600	45000	---	63500	---	83100	---	95000	80100	---
MAX	51000	44400	49200	45000	51000	63500	67900	83100	105000	105000	94600	79500
MIN	40300	37900	43600	37100	45400	51200	63800	65000	83900	95000	80100	66100
(+)	5116.2	5119.2	5118.6	5119.7	5123.9	5132.3	5134.4	5144.3	5156.6	5151.2	5142.5	5134.0
(‡)	-10800	+4100	+800	+1400	+6000	+12500	+3300	+16300	+21800	-9900	-14900	-14000

CAL YR 1966 MAX 79000 MIN 37000 ‡ +6600
WTR YR 1967 MAX 105000 MIN 37100 ‡ +15000

+ ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SFP
1	65700	52700	41400	36300	41900	50100	58300	68400	82500	85800	72900	59900
2	65800	52300	40900	36300	42100	50400	58600	69000	82800	85300	73200	59700
3	65400	51800	40800	36300	42300	50700	58900	69500	83000	85100	72700	59300
4	65000	51300	40700	36400	42400	51100	59100	70100	83200	85100	72200	58800
5	64600	51000	40400	36400	42600	51400	59400	70700	83500	85100	71700	58400
6	64200	50600	40100	36500	42600	51700	59600	71200	83800	85100	71300	57900
7	63700	50100	39900	36500	42700	52000	59900	71600	84000	85100	70800	57500
8	63200	49700	39500	36600	42800	52300	60300	72100	84200	84800	70300	57000
9	62600	49300	39200	36900	42900	52500	60600	72500	84300	84300	69800	56600
10	62400	48800	38800	37000	43000	52700	61000	73000	84500	83800	69300	56100
11	61900	48400	38400	37000	43100	52900	61400	73500	84600	83300	68800	55600
12	61500	48000	38000	37100	43200	53300	61800	74000	84700	82800	68300	55200
13	61000	47600	37700	37000	43300	53700	62200	74400	84900	82800	67800	54800
14	60500	47400	37300	37400	43300	54000	62500	75000	85000	81800	67400	54600
15	60200	47000	37000	38400	43200	54200	62900	75300	85200	81300	66900	54400
16	59700	46600	36700	39000	43100	54600	63300	75700	85300	80800	66400	54000
17	59200	46200	36500	39200	43400	54800	63600	76300	85400	80400	65900	53500
18	58800	45900	36300	39400	43500	55000	63900	76800	85500	79900	65500	53100
19	58300	45700	36200	39500	43900	55100	64300	76500	85500	79500	65200	52600
20	57900	45300	36000	39600	44400	55300	64600	77700	85600	79200	64900	52200
21	57500	44900	35800	39700	45500	55400	64900	78300	85700	79000	64400	51700
22	57000	44500	35700	39900	46400	55600	65200	78800	85800	78500	64000	51200
23	56600	44100	35800	40000	47300	55800	65400	79200	85800	78000	63500	50800
24	56200	43700	35800	40100	47900	55900	65800	79600	85900	77500	63100	50400
25	55700	43300	35800	40200	48400	56300	66100	80000	85900	77000	62600	49900
26	55200	42900	35900	40300	48700	56500	66500	80400	85900	76400	62100	49500
27	54800	42600	36000	40500	49100	56700	66900	80800	86000	76000	61700	49100
28	52900	42200	36100	40700	49500	56900	67400	81100	86000	75600	61200	48600
29	53900	42000	36100	41400	49800	57200	67900	81500	86100	75100	60900	48100
30	53500	41800	36200	41700	---	57600	68400	82100	86100	74600	60400	47700
31	53100	---	36100	41800	---	57900	---	82400	---	74200	60100	---
MAX	65800	52700	41400	41800	49800	57900	68400	82400	86100	85800	73200	59900
MIN	52900	41800	35700	36300	41900	50100	58300	68400	82500	74200	60100	47700
(+)	5125.35	5117.26	5112.91	5117.26	5123.10	5128.64	5135.40	5143.89	5146.05	5138.95	5130.10	5121.62
(‡)	-13000	-11300	-5700	+5700	+8000	+8100	+10500	+14000	+3700	-11900	-14100	-12400

CAL YR 1967 MAX 105000 MIN 35700 ‡ -7500
WTR YR 1968 MAX 86100 MIN 35700 ‡ -18400

+ ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11403500 BUCKS LAKE NEAR BUCKS LODGE, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47300	40400	38000	35500	54700	55500	45600	54600	94300	103000	89200	73900
2	46800	40500	37800	35400	54800	55500	45600	55200	95600	102000	88700	73400
3	46400	40600	37700	35300	55000	55300	45500	56000	96800	102000	88100	73900
4	46000	40500	37500	35100	55100	54700	45600	56500	98200	102000	87700	72500
5	45600	40400	37400	35000	55300	54000	45500	57300	99400	101000	87200	72000
6	45100	40200	37200	34900	55400	53200	45300	58300	100000	101000	86700	71500
7	44700	40000	37100	34800	55600	51800	45100	59400	101000	100000	86200	71000
8	44300	39900	37000	34700	55700	51600	45000	60600	102000	100000	85700	70600
9	43900	39700	36900	34600	55900	51300	44800	61900	103000	99700	85200	70100
10	43400	39600	37600	34400	56000	51000	44600	63400	103000	99300	84800	69600
11	43300	39900	37600	34300	56200	50700	44600	64900	103000	98900	84300	69200
12	43800	39900	37600	34200	56200	50400	44800	66400	104000	98400	83700	68700
13	43900	39800	37600	34100	56500	50000	44600	68000	104000	98000	83200	68200
14	43800	39700	37600	34200	56600	49700	44400	69300	104000	97600	82800	67700
15	43400	39600	37800	34400	56600	49400	44300	69700	104000	97200	82200	67200
16	43000	39500	37700	34500	56400	49100	44100	71800	104000	96700	81800	66700
17	42800	39400	37600	34700	56100	48800	44200	73300	104000	96300	81300	66200
18	42600	39500	37600	35000	55900	48500	46400	74800	105000	95800	80800	65700
19	42400	39400	37400	36600	55600	48200	46900	76200	105000	95400	80300	65300
20	42200	39300	37300	40200	55400	48000	47500	77600	105000	94900	79800	64800
21	42000	39100	36900	44200	55200	47700	48200	79000	104000	94500	79300	64400
22	41800	39100	36600	45500	55200	47400	49000	80500	104000	94000	78800	63900
23	41700	38900	36500	46600	55100	47000	49900	82100	104000	93500	78300	63400
24	41500	38900	36500	48300	55100	46800	50500	83600	104000	93000	77800	63000
25	41300	38700	36400	51100	55000	46500	50900	85100	103000	92600	77300	62500
26	41100	38600	36200	52800	55100	46300	51400	86500	103000	92100	76900	62100
27	40900	38400	36100	53800	55300	46000	51800	87800	103000	91600	76400	61600
28	40700	38300	36000	54100	55400	45800	52400	89000	103000	91100	75900	61100
29	40800	38200	35900	54200	---	45700	53200	90200	103000	90600	75400	60600
30	40700	38100	35700	54400	---	45600	53900	91600	103000	90200	74900	60200
31	40600	---	35600	54500	---	45600	---	93000	---	89700	74400	---
MAX	47300	40600	38000	54500	56600	55500	53900	93000	105000	103000	89200	73900
MIN	40600	38100	35600	34100	54700	45600	44100	54600	94300	89700	74400	60200
(†)	5116.33	5114.44	5112.50	5126.35	5126.95	5120.09	5125.92	5150.13	5155.61	5148.12	5139.10	5130.14
(‡)	-7100	-2500	-2500	+18900	+900	-9800	+8300	+39100	+10000	-13300	-15300	-14200

CAL YR 1968 MAX 86100 MIN 35600 ‡ -500
WTR YR 1969 MAX 105000 MIN 34100 ‡ +12500

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET, ROUNDED TO GEOLOGICAL SURVEY STANDARDS.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59800	47200	39000	46600	85700	85400	80800	84200	96600	101000	95100	79000
2	59200	46800	38600	46400	86100	85200	80600	84500	97000	101000	94600	78500
3	58700	46400	38300	46100	86300	85000	80400	84900	97200	101000	94100	78000
4	58300	46000	37900	45900	86500	84800	80400	85200	97500	101000	93500	77500
5	57800	46000	37500	45700	86700	84600	80400	85600	97800	101000	93000	77000
6	57400	45600	37100	45500	86800	84300	80400	85900	98000	101000	92500	76500
7	56900	45300	36700	45800	87000	84300	80400	86300	98200	101000	92000	76000
8	56500	45000	36400	46000	87100	84100	80500	86600	98500	102000	91500	75600
9	56100	44600	36000	45800	87200	83900	80500	87100	98700	102000	91000	75100
10	55600	44200	35800	46600	87200	83700	80600	87500	99000	102000	90400	74600
11	55100	43900	35700	47000	87100	83400	80600	88000	99200	102000	89900	74100
12	54700	43500	36200	47700	87500	83100	80600	88300	99400	102000	89400	73600
13	54200	43200	36500	49200	87600	82900	80700	88600	99600	102000	88900	73100
14	53800	42800	36500	51600	87500	82800	80700	89000	99800	101000	88400	72600
15	53800	42300	36300	52500	87300	82600	80700	89500	100000	101000	87900	72100
16	53700	42100	36000	55500	87400	82600	80700	90000	100000	101000	87300	71600
17	53400	41700	35700	57900	87300	82600	80800	90500	100000	101000	86800	71100
18	53100	41400	35500	58900	87100	82600	81100	91000	101000	100000	86300	70700
19	52600	41200	36900	59900	86900	82600	81400	91400	101000	100000	85800	70200
20	52100	41100	38800	61000	86700	82600	81600	91800	101000	99700	85300	69700
21	51700	40900	42600	64300	86500	82600	81800	92200	101000	99400	84700	69200
22	51300	40700	43200	69200	86200	82600	82000	92700	101000	99200	84200	68700
23	50900	40500	43800	73600	86000	82600	82300	93100	101000	98900	83700	68200
24	50500	40400	45200	77100	85700	82700	82400	93600	101000	98700	83100	67500
25	50100	40200	46200	79000	85500	82600	82700	94100	101000	98400	82600	67200
26	49600	40000	46600	80900	85300	82400	83100	94500	101000	98100	82100	66700
27	49200	39800	46900	82600	85000	82100	83300	94900	101000	97800	81600	66100
28	48800	39700	47200	83400	85200	81900	83500	95300	101000	97200	81100	65700
29	48400	39500	47300	84000	---	81600	83700	95700	102000	96700	80600	65200
30	48000	39300	47100	84700	---	81400	83900	96000	101000	96200	80100	64700
31	47600	---	46900	85200	---	81100	---	96300	---	95700	79500	---
MAX	59800	47200	47300	85200	87600	85400	83900	96300	102000	102000	95100	79000
MIN	47600	39300	35500	45500	85000	81100	80400	84200	96600	95700	79500	64700
(†)	5121.52	5115.39	5121.00	5145.54	5145.55	5143.10	5144.78	5151.90	5154.68	5151.54	5142.20	5133.06
(‡)	-12600	-8290	+7550	+38400	+17	-4160	+2850	+12400	+5010	-5660	-16100	-14800

CAL YR 1969 MAX 105000 MIN 34100 ‡ +11200
WTR YR 1970 MAX 102000 MIN 35500 ‡ +4520

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET, ROUNDED TO GEOLOGICAL SURVEY STANDARDS.

11404500 NORTH FORK FEATHER RIVER AT PULGA, CALIF.

LOCATION.--Lat 39°47'39", long 121°27'03", in SW¼NE¼ sec.6, T.22 N., R.5 E., Butte County, Plumas National Forest, on left bank between railroad and highway bridges, 0.5 mile downstream from Flea Valley Creek and Pulga and 1.5 miles downstream from Poe Dam.

DRAINAGE AREA.--1,953 sq mi.

PERIOD OF RECORD.--October 1910 to September 1970. Monthly discharge only for some periods and yearly estimates for water years 1911 and 1938, published in WSP 1315-A. Prior to October 1960, published as "at Big Bar."

GAGE.--Water-stage recorder. Datum of gage is 1,304.88 ft above mean sea level (levels by Pacific Gas & Electric Co.). Prior to Oct. 1, 1937, at site 1.1 miles upstream at different datum. Oct. 1, 1937, to Sept. 30, 1958, at present site at datum 5.00 ft higher.

AVERAGE DISCHARGE.--60 years, 2,956 cfs (2,142,000 acre-ft per year), including diversion through Poe powerhouse.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Apr. 11, 1966	4,630	11.80	Sept.10, 11, 1966	52
1967	Jan. 29, 1967	20,700	20.13	Nov. 18, 1966	48
1968	Feb. 21, 1968	12,000	16.20	Nov. 26, 1967	49
1969	Jan. 21, 1969	46,900	28.69	Nov. 29, 1968	44
1970	Jan. 23, 1970	56,000	31.24	June 30, 1970	48

Period of record (prior to diversion to Poe powerhouse): Maximum discharge, 72,400 cfs Dec. 23, 1955 (gage height, 35.60 ft, present datum), from rating curve extended above 34,000 cfs; minimum daily, 235 cfs Oct. 31, 1932.

1958-70: Maximum discharge, 73,000 cfs Dec. 22, 1964 (gage height, 35.80 ft), from rating curve extended above 34,000 cfs; minimum daily, 33 cfs June 25, 1961.

REMARKS.--Records good. Flow regulated by Lake Almanor (see station 11399000), Bucks Lake (see station 11403500), Mountain Meadows Reservoir, Butt Valley Reservoir, and five forebays (combined capacity, 1,239,000 acre-ft). Diversion through Poe powerhouse began May 29, 1958. See schematic diagram of North Fork Feather River basin elsewhere in this report. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

COOPERATION.--Gage-height record and 44 discharge measurements furnished by Pacific Gas & Electric Co., in connection with a Federal Power Commission project.

REVISIONS (WATER YEARS).--WSP 931: 1938(M), 1940. WSP 1515: 1935.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	57	59	86	84	75	2,090	66	55	57	56	55
2	57	58	57	77	80	73	2,630	66	58	56	57	55
3	58	56	61	78	74	70	2,420	67	58	55	58	54
4	58	55	59	271	96	66	2,080	65	56	56	58	56
5	58	56	59	386	117	68	2,040	63	56	56	58	53
6	56	57	59	226	113	69	2,030	64	58	56	58	54
7	57	58	57	135	100	70	2,040	62	58	56	58	53
8	57	63	57	118	91	70	2,030	63	59	56	57	53
9	55	57	57	104	84	78	2,080	62	59	56	57	53
10	57	57	57	91	81	92	3,180	64	58	56	58	52
11	55	57	59	83	79	598	3,190	61	57	55	57	52
12	56	61	59	75	68	439	2,920	62	56	57	56	53
13	56	69	57	75	65	1,740	2,250	60	56	57	56	54
14	57	88	57	72	62	2,000	2,110	58	58	56	56	53
15	57	70	57	70	63	2,010	711	56	59	55	56	53
16	57	55	58	66	64	1,860	118	58	59	56	56	55
17	56	387	57	68	61	452	88	57	59	56	56	56
18	55	834	57	64	65	200	184	55	59	56	54	56
19	57	119	57	63	80	87	86	58	58	56	56	56
20	58	70	57	60	74	80	78	57	58	56	56	56
21	55	60	56	60	70	79	76	57	58	55	54	55
22	56	60	55	60	70	76	75	56	58	56	54	53
23	57	65	56	58	72	77	75	59	58	57	55	54
24	58	115	89	59	77	78	75	60	58	56	55	55
25	57	84	90	58	304	219	75	56	56	56	56	56
26	58	71	71	57	1,610	692	70	58	56	55	54	54
27	57	68	68	56	1,690	1,020	71	58	57	56	57	55
28	57	65	100	54	441	1,440	70	57	58	53	55	56
29	57	64	122	66	------	1,790	70	56	56	53	55	61
30	57	61	113	73	------	1,810	69	56	57	57	57	58
31	55	------	104	76	------	1,960	------	55	------	57	57	------
TOTAL	1,758	3,097	2,081	2,945	5,935	19,438	35,081	1,852	1,726	1,731	1,743	1,639
MEAN	56.7	103	67.1	95.0	212	627	1,169	59.7	57.5	55.8	56.2	54.6
MAX	58	834	122	386	1,690	2,010	3,190	67	59	57	58	61
MIN	55	55	55	54	61	66	69	55	55	53	54	52
AC-FT	3,490	6,140	4,130	5,840	11,770	38,560	69,580	3,670	3,420	3,430	3,460	3,250
MEAN†	2,684	2,932	2,264	2,298	1,770	2,736	3,880	2,171	1,587	2,444	1,974	848
AC-FT†	165,000	174,400	139,200	141,300	98,290	168,200	230,900	133,500	94,400	150,300	121,400	50,440

CAL YR 1965 TOTAL 231,398 MEAN 634 MAX 16,400 MIN 55 AC-FT 459,000 MEAN† 3,776 AC-FT† 2,734,000
WTR YR 1966 TOTAL 79,026 MEAN 217 MAX 3,190 MIN 52 AC-FT 156,700 MEAN† 2,304 AC-FT† 1,668,000

† ADJUSTED FOR DIVERSION THROUGH POE POWERPLANT.

11404500 NORTH FORK FEATHER RIVER AT PULGA, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	58	220	55	6,080	68	213	106	2,080	58	58	57
2	54	58	1,370	52	3,260	70	122	103	1,550	55	58	57
3	54	58	1,760	53	1,660	66	101	103	1,210	56	55	57
4	56	56	862	53	677	65	100	104	1,470	54	56	58
5	56	56	4,600	52	362	64	115	105	1,630	55	56	56
6	54	60	2,110	56	211	63	204	129	2,300	53	57	57
7	54	58	478	52	134	62	174	1,410	1,930	52	56	56
8	54	54	144	51	112	60	145	3,990	1,820	53	56	56
9	56	54	91	52	106	60	133	5,170	1,830	53	56	58
10	54	57	91	53	103	66	133	5,720	1,790	51	56	56
11	56	56	85	53	96	101	126	4,400	1,680	52	55	55
12	53	62	80	52	94	97	119	3,360	1,520	53	56	57
13	54	56	80	52	92	97	117	2,680	1,750	52	54	57
14	56	58	79	50	89	88	120	2,620	1,560	52	56	56
15	56	89	75	52	87	93	115	3,370	1,280	49	57	56
16	53	708	70	51	84	6,400	110	4,820	1,200	50	57	58
17	56	52	67	50	84	10,700	124	5,830	1,170	53	56	58
18	60	48	65	53	80	8,560	127	6,610	1,140	53	55	58
19	60	335	65	53	80	6,320	126	6,950	1,530	55	55	57
20	60	2,360	67	115	76	4,120	126	7,340	1,200	55	56	57
21	61	353	65	6,760	75	3,450	120	7,990	885	56	55	58
22	60	82	61	8,720	72	3,160	114	8,360	855	54	55	57
23	59	60	62	2,300	72	4,750	117	8,680	583	51	54	58
24	60	54	62	491	75	4,070	122	8,780	446	56	56	59
25	58	52	59	158	77	2,590	120	7,650	497	58	57	58
26	59	51	58	126	70	1,860	117	6,050	489	57	58	58
27	59	52	58	130	69	1,010	132	4,760	110	57	58	56
28	58	90	55	1,070	68	976	123	4,050	53	66	57	56
29	58	1,610	56	16,400	------	667	117	3,290	54	58	57	60
30	58	110	55	12,700	------	411	111	2,680	59	58	57	58
31	58	------	57	11,200	------	456	------	2,180	------	59	58	------
TOTAL	1,760	6,907	13,107	61,165	14,145	60,620	3,843	129,390	35,671	1,694	1,743	1,715
MEAN	56.8	230	423	1,973	505	1,955	128	4,174	1,189	54.6	56.2	57.2
MAX	61	2,360	4,600	16,400	6,080	10,700	213	8,780	2,300	66	58	60
MIN	53	48	55	50	68	60	100	103	53	49	54	55
AC-FT	3,490	13,700	26,000	121,300	28,060	120,200	7,620	256,600	70,750	3,360	3,460	3,400
MEAN†	451	1,686	3,734	5,465	4,486	5,829	4,280	8,477	5,504	3,433	2,695	2,474
AC-FT†	27,700	100,300	229,600	336,000	249,100	358,400	254,600	564,600	327,400	210,400	165,700	147,200

CAL YR 1966 TOTAL 93,864 MEAN 257 MAX 4,600 MIN 48 AC-FT 186,200 MEAN† 2,135 AC-FT† 1,546,000
WTR YR 1967 TOTAL 331,760 MEAN 909 MAX 16,400 MIN 48 AC-FT 658,000 MEAN† 4,044 AC-FT† 2,928,000

† ADJUSTED FOR DIVERSION THROUGH POE POWERHOUSE.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	55	56	53	77	449	92	85	61	53	53	56
2	79	55	53	50	101	179	90	68	59	53	55	56
3	61	55	75	51	112	103	87	67	58	53	55	55
4	57	56	106	52	102	95	85	67	58	52	54	55
5	58	55	679	52	96	91	85	68	59	53	55	53
6	58	58	137	51	95	88	84	69	57	54	56	54
7	59	57	81	50	97	90	82	80	59	53	53	53
8	58	57	62	50	95	91	81	66	57	52	54	56
9	57	57	56	59	97	88	81	66	55	54	54	55
10	58	53	55	139	106	984	82	66	55	53	56	54
11	59	52	51	74	98	656	84	66	57	54	54	54
12	57	53	54	64	95	519	83	64	54	55	53	53
13	58	54	54	63	97	849	80	69	57	53	53	54
14	57	63	52	136	91	1,140	80	67	58	53	54	56
15	56	55	53	4,510	87	1,060	78	64	56	53	54	54
16	58	54	52	1,320	100	1,360	78	63	56	53	53	54
17	56	54	52	96	408	1,870	76	64	57	52	55	53
18	56	56	55	80	686	1,490	74	61	56	52	56	53
19	56	64	53	74	548	934	75	64	54	54	62	53
20	56	55	52	68	6,980	967	75	63	54	54	60	54
21	57	52	53	65	9,840	933	73	61	55	63	59	52
22	58	55	54	66	8,220	984	77	64	53	56	56	53
23	58	51	54	64	7,870	1,130	79	65	55	54	57	54
24	58	50	55	65	7,050	929	76	62	54	55	58	54
25	56	73	55	64	4,700	1,240	74	62	53	55	56	54
26	56	49	57	62	2,830	1,350	72	62	55	73	53	54
27	55	52	58	62	2,050	795	73	61	55	55	56	54
28	55	52	56	63	1,540	99	73	60	55	53	56	54
29	57	63	55	94	913	92	118	61	53	54	56	54
30	56	59	56	116	------	93	541	61	52	53	56	53
31	56	------	55	86	------	91	------	60	------	56	57	------
TOTAL	1,795	1,674	2,496	7,899	55,181	20,839	2,888	2,026	1,677	1,690	1,719	1,621
MEAN	57.9	55.8	80.5	255	1,903	672	96.3	65.4	55.9	54.5	55.5	54.0
MAX	79	73	679	4,510	9,840	1,870	541	85	61	73	62	56
MIN	55	49	51	50	77	88	72	60	52	52	53	52
AC-FT	3,560	3,320	4,950	15,670	109,500	41,330	5,730	4,020	3,330	3,350	3,410	3,220
MEAN†	2,355	2,613	2,151	2,269	5,604	3,678	3,295	3,264	2,145	2,075	2,198	2,019
AC-FT†	144,000	119,800	132,300	139,600	322,300	222,500	196,000	200,700	127,600	127,600	135,100	120,100

CAL YR 1967 TOTAL 315,951 MEAN 866 MAX 16,400 MIN 49 AC-FT 626,700 MEAN† 4,158 AC-FT† 3,010,250
WTR YR 1968 TOTAL 101,505 MEAN 277 MAX 9,840 MIN 49 AC-FT 201,300 MEAN† 2,739 AC-FT† 1,988,000

† ADJUSTED FOR DIVERSION THROUGH POE POWERHOUSE.

11404500 NORTH FORK FEATHER RIVER AT PULGA, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	53	47	68	678	473	7,300	4,100	608	56	54	59
2	54	80	47	67	494	249	6,650	3,700	532	56	56	60
3	53	81	49	66	247	209	5,020	3,210	474	53	56	60
4	54	64	54	67	124	160	3,610	2,570	432	51	54	58
5	54	60	54	83	135	151	4,590	2,640	339	56	55	58
6	55	55	53	69	144	134	4,320	3,700	243	56	56	58
7	54	53	55	67	131	123	3,050	4,740	63	57	89	59
8	53	52	52	68	129	116	2,380	5,150	60	55	60	56
9	55	53	57	63	445	137	2,250	5,900	61	93	60	53
10	57	52	185	58	736	113	2,180	6,690	62	56	60	53
11	65	61	121	85	1,550	106	2,550	6,860	61	53	60	53
12	96	80	73	203	2,490	104	3,190	6,930	60	51	60	53
13	64	56	68	6,020	1,450	103	3,820	6,420	60	50	60	52
14	64	52	97	5,590	791	124	3,950	5,570	59	53	60	53
15	58	54	151	1,260	1,430	142	3,340	4,500	58	54	60	54
16	60	54	106	168	1,530	205	2,730	4,260	129	53	62	54
17	54	51	80	114	681	489	2,810	3,980	58	51	62	55
18	57	57	70	111	562	854	4,150	3,790	57	51	61	54
19	54	53	65	3,900	483	1,080	4,200	3,570	56	52	60	54
20	54	51	59	24,700	575	986	3,990	3,260	55	51	60	52
21	54	49	57	41,300	535	1,120	4,710	2,950	55	51	59	54
22	51	45	55	21,200	401	1,050	6,070	2,680	55	52	60	53
23	52	45	62	9,150	294	1,190	7,320	2,610	53	57	59	53
24	53	50	141	5,050	270	1,310	5,940	2,320	55	56	59	53
25	51	47	181	6,470	266	347	4,510	2,090	53	58	58	52
26	52	47	119	21,100	255	151	3,580	1,890	53	57	60	54
27	51	45	94	12,000	317	387	2,520	1,500	54	56	60	54
28	52	46	92	6,900	623	1,890	2,220	1,030	59	56	58	53
29	62	44	84	3,970	------	2,540	3,230	845	56	57	59	57
30	56	47	79	2,250	------	3,720	4,290	785	55	56	58	54
31	54	------	74	1,050	------	5,770	------	752	------	58	60	------
TOTAL	1,758	1,637	2,581	173,267	17,766	25,533	120,470	110,992	4,075	1,722	1,855	1,645
MEAN	56.7	54.6	83.3	5,589	635	824	4,016	3,580	136	55.5	59.8	54.8
MAX	96	81	185	41,300	2,490	5,770	7,320	6,930	608	93	89	60
MIN	51	44	47	58	124	103	2,180	752	53	50	54	52
AC-FT	3,490	3,250	5,120	343,700	35,240	50,640	239,000	220,200	8,080	3,420	3,680	3,260
MEAN†	1,387	1,663	3,145	9,607	4,924	5,125	8,309	7,873	3,201	2,170	2,667	2,902
AC-FT†	85,300	98,950	193,400	590,700	273,400	315,100	494,300	484,100	190,500	133,400	164,000	172,700

CAL YR 1968 TOTAL 101,516 MEAN 277 MAX 9,840 MIN 44 AC-FT 201,400 MEAN† 2,713 AC-FT† 1,969,000
WTR YR 1969 TOTAL 463,301 MEAN 1,269 MAX 41,300 MIN 44 AC-FT 919,000 MEAN† 4,415 AC-FT† 3,196,000

† ADJUSTED FOR DIVERSION THROUGH POE POWERHOUSE.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	54	57	83	1,850	2,500	96	60	50	51	60	63
2	53	55	56	79	1,240	2,530	100	59	49	53	61	62
3	54	53	56	76	858	1,530	68	57	50	53	62	61
4	56	55	58	76	613	2,210	67	58	49	57	63	62
5	54	79	56	71	387	2,190	68	88	49	56	62	62
6	54	60	56	73	271	1,600	68	58	50	53	62	62
7	55	62	56	71	232	473	66	57	49	53	62	62
8	58	61	60	81	197	1,530	65	57	51	53	61	63
9	53	59	58	1,720	163	1,830	65	58	53	53	61	62
10	52	58	70	6,170	128	1,770	65	58	53	51	62	63
11	53	56	96	3,310	109	1,640	65	56	52	52	62	62
12	53	56	1,250	2,910	203	1,590	65	57	50	53	63	62
13	52	56	779	9,370	639	1,520	65	55	50	53	62	62
14	53	56	78	23,800	639	1,120	70	54	51	53	62	62
15	65	55	69	14,700	270	1,700	65	53	51	54	62	62
16	66	56	65	19,300	791	1,580	65	54	51	56	62	63
17	56	54	60	19,600	3,190	931	64	53	51	54	61	62
18	55	54	61	12,500	1,860	890	63	54	51	54	61	63
19	56	55	3,010	8,300	1,620	743	66	53	50	56	61	63
20	52	55	5,940	7,140	1,510	975	63	54	50	56	61	63
21	54	57	13,700	19,100	1,150	484	62	53	50	55	61	63
22	54	56	4,160	25,600	959	329	62	53	50	56	62	63
23	53	56	1,560	31,500	1,120	153	61	53	51	56	62	62
24	55	55	6,990	39,400	1,110	264	60	53	51	56	61	62
25	54	55	5,410	21,500	804	334	60	52	51	57	62	61
26	53	58	2,480	13,400	171	444	63	52	50	57	62	67
27	53	57	613	15,600	95	148	62	52	50	58	61	64
28	54	57	145	11,300	156	158	61	52	51	58	61	64
29	55	58	101	7,100	------	216	58	51	50	58	61	65
30	54	58	92	4,950	------	83	58	50	48	57	61	64
31	54	------	123	3,040	------	78	------	50	------	58	63	------
TOTAL	1,696	1,716	47,365	321,920	22,335	33,543	1,986	1,724	1,512	1,700	1,910	1,881
MEAN	54.7	57.2	1,528	10,380	798	1,082	66.2	55.6	50.4	54.8	61.6	62.7
MAX	66	79	13,700	39,400	3,190	2,530	100	88	53	58	63	67
MIN	52	53	56	71	95	78	58	50	48	51	60	61
AC-FT	3,360	3,400	93,950	638,500	44,300	66,530	3,940	3,420	3,000	3,370	3,790	3,730
MEAN†	2,940	3,154	5,247	13,720	5,085	5,315	3,940	3,420	3,000	3,370	3,790	3,730
AC-FT†	180,800	187,700	322,600	843,800	282,400	326,800	178,800	165,600	81,420	103,500	155,700	148,800

CAL YR 1969 TOTAL 508,102 MEAN 1,392 MAX 41,300 MIN 50 AC-FT 1,008,000 MEAN† 4,847 AC-FT† 3,509,000
WTR YR 1970 TOTAL 439,288 MEAN 1,204 MAX 39,400 MIN 48 AC-FT 871,300 MEAN† 4,113 AC-FT† 2,978,000

† ADJUSTED FOR DIVERSION THROUGH POE POWERHOUSE.

11405300 WEST BRANCH FEATHER RIVER NEAR PARADISE, CALIF.

LOCATION.--Lat 39°47'12", long 121°33'42", in SE¼SE¼ sec.6, T.22 N., R.4 E., Butte County, on right bank 0.6 mile upstream from Griffin Gulch and 4.0 miles northeast of Paradise.

DRAINAGE AREA.--110 sq mi (revised).

PERIOD OF RECORD.--October 1957 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 1,370 ft (from topographic map). Prior to June 1, 1970, on left bank at present datum.

AVERAGE DISCHARGE.--13 years, 317 cfs (229,700 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (2,000 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Nov. 17, 1965	2200	*3,040	9.62	Jan. 15, 1968	0330	3,630	10.16	Dec. 19, 1969	1500	5,630	12.18
Apr. 10, 1966	0200	2,180	8.54	Feb. 17, 1968	1530	2,380	8.70	Dec. 21, 1969	1115	12,700	17.85
				Feb. 21, 1968	0800	*5,200	11.75	Dec. 24, 1969	0330	4,060	10.61
Nov. 16, 1966	0200	2,720	9.22	Dec. 10, 1968	1700	3,200	9.68	Jan. 9, 1970	2100	4,380	10.93
Nov. 20, 1966	0130	4,780	11.58	Jan. 13, 1969	0900	5,710	12.26	Jan. 14, 1970	0900	12,000	17.45
Nov. 29, 1966	0330	2,960	9.53	Jan. 20, 1969	2200	*15,000	19.42	Jan. 16, 1970	1000	8,230	14.59
Dec. 2, 1966	2030	4,510	11.28	Jan. 26, 1969	0400	11,300	16.86	Jan. 22, 1970	0100	10,200	16.20
Dec. 5, 1966	0200	4,320	11.07	Feb. 12, 1969	0230	2,440	8.77	Jan. 23, 1970	2330	*21,200	23.40
Jan. 21, 1967	1700	7,140	13.78	Feb. 15, 1969	1000	2,490	8.84	Jan. 27, 1970	0400	5,830	12.53
Jan. 29, 1967	0700	*8,220	14.67	May 11, 1969	2300	2,100	8.54	Mar. 1, 1970	0600	3,480	10.18
Mar. 16, 1967	1530	5,130	11.68								
May 23, 1967	2100	2,360	8.68	Dec. 12, 1969	2200	2,560	9.08				

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Several days in August and September	.60	1969	Oct. 1-10, 1968	.85
1967	Oct. 1, 2, 4-7, 15-25, 1966	.60	1970	July 31, Aug. 1, Sept. 2, 13, 1970	1.0
1968	Oct. 15, 1967, Sept. 30, 1968	.79			

Period of record: Maximum discharge, 26,300 cfs Dec. 22, 1964 (gage height, 26.2 ft, from floodmarks), from rating curve extended above 14,000 cfs; minimum, 0.3 cfs Aug. 31, Sept. 1, 2, 1960, Sept. 8, 1962.

REMARKS.--Records good. Dewey, Miners, and Hendricks Canals divert from headwaters of West Branch Feather River into Butte Creek basin for power development at DeSabla and Centerville plants of Pacific Gas & Electric Co. Upper Miocene Canal diverts about 50 cfs to Lime Saddle powerplant. Flow regulated by Round Valley Reservoir (usable capacity, 5,000 acre-ft) and Philbrook Reservoir (capacity, 5,010 acre-ft). Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

COOPERATION.--Water-stage recorder graphs for the water years 1966-69 and 50 discharge measurements furnished by California Department of Water Resources.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	.90	43	75	187	106	712	541	79	1.8	1.2	.80
2	1.0	7.4	40	56	181	93	730	545	55	1.6	1.1	.70
3	1.0	12	39	63	152	84	717	577	48	1.3	1.1	.70
4	1.0	12	39	819	266	81	690	585	47	1.3	.90	.70
5	1.0	12	37	1060	336	83	708	581	41	1.3	.80	.70
6	1.0	3.8	34	640	262	86	740	521	40	1.2	.80	.70
7	1.0	1.3	33	399	227	95	771	501	51	1.2	.80	.70
8	1.0	29	31	310	211	96	748	529	43	1.2	.80	.70
9	1.0	35	28	243	185	130	803	553	46	1.1	.80	.70
10	1.0	20	27	177	169	363	1640	625	31	1.1	.80	.70
11	1.0	17	26	137	123	300	1200	605	28	1.1	.80	.60
12	1.0	31	39	113	81	235	1080	493	22	1.1	2.0	.60
13	1.0	62	30	96	73	552	852	468	18	1.1	1.1	.60
14	1.1	497	24	90	69	497	753	432	15	1.1	1.0	.60
15	1.1	372	20	85	64	424	758	390	13	1.1	1.0	.70
16	1.1	174	20	81	62	354	825	368	11	1.1	1.0	.60
17	1.1	804	18	74	59	270	905	335	9.9	1.1	1.0	.60
18	1.0	1210	15	69	60	237	848	323	8.1	1.1	1.0	.60
19	1.0	490	14	63	149	253	668	271	6.0	1.0	.90	.60
20	.90	242	13	59	130	219	585	264	4.0	1.1	.80	.70
21	.90	124	28	61	104	199	557	233	3.5	1.2	.70	.60
22	.90	69	31	55	98	197	569	204	3.2	1.2	.60	.60
23	.90	63	9.9	51	128	205	605	189	3.0	1.2	.60	.60
24	.90	311	122	49	157	205	645	168	3.0	1.1	.60	.60
25	.90	191	122	47	143	241	699	153	2.8	1.1	.60	.60
26	.90	113	56	44	137	288	708	170	2.2	1.1	.60	.60
27	.90	89	39	42	120	348	585	161	2.2	1.1	.60	.60
28	.90	72	181	40	110	427	553	132	2.2	1.1	.70	.60
29	.90	60	245	79	---	500	541	117	2.0	1.0	.70	.60
30	.90	50	152	136	---	556	529	112	2.0	1.0	.70	.60
31	.90	---	114	142	---	628	---	103	---	1.2	.70	---
TOTAL	30.20	5174.40	1669.9	5455	4043	8352	22724	11249	642.1	36.3	26.80	19.30
MEAN	.97	172	53.9	176	144	269	757	363	21.4	1.17	.86	.64
MAX	1.1	1210	245	1060	336	628	1640	625	79	1.8	2.0	.80
MIN	.90	.90	9.9	40	59	81	529	103	2.0	1.0	.60	.60
AC-FT	60	10260	3310	10820	8020	16570	45070	22310	1270	72	53	38

CAL YR 1965 TOTAL 115059.40 MEAN 315 MAX 5400 MIN .90 AC-FT 228200
WTR YR 1966 TOTAL 59422.00 MEAN 163 MAX 1640 MIN .60 AC-FT 117900

11405300 WEST BRANCH FEATHER RIVER NEAR PARADISE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.60	.90	1390	54	1950	179	529	295	812	390	4.0	1.1
2	.60	.90	2320	52	1330	168	478	326	730	362	3.0	1.1
3	.70	.90	1660	47	1020	167	468	317	676	326	2.8	1.1
4	.60	.90	1540	45	875	156	450	390	758	271	2.5	1.0
5	.60	.90	2680	45	780	146	565	426	816	238	2.0	.90
6	.60	22	1240	39	694	138	995	457	789	218	1.8	.90
7	.60	16	825	39	633	137	748	654	798	181	1.6	.90
8	.70	1.2	613	37	581	140	589	895	784	123	1.4	.90
9	.70	.80	474	36	533	148	533	1020	820	101	1.4	.90
10	.70	.70	422	34	505	215	529	1060	812	87	1.4	.90
11	.70	.80	335	34	464	507	509	802	812	69	1.3	.90
12	.70	45	287	36	478	422	460	704	807	50	1.2	.90
13	.70	15	341	34	533	365	471	708	780	40	1.2	.80
14	.70	3.2	387	36	513	289	482	794	758	34	1.1	.80
15	.60	380	271	37	454	328	429	1020	776	29	1.1	.80
16	.60	1140	233	36	418	3500	374	1290	830	26	4.8	.80
17	.60	120	200	31	359	2190	468	1420	861	26	1.4	.90
18	.60	26	176	30	303	1380	505	1490	890	21	1.1	9.9
19	.60	819	163	28	287	1060	457	1550	940	18	1.1	3.2
20	.60	2170	146	393	298	965	436	1690	890	15	1.1	1.1
21	.60	670	131	4460	292	985	401	1810	830	14	1.0	1.0
22	.60	460	114	1930	282	915	368	1820	730	12	1.0	.90
23	.60	252	105	843	276	1410	368	1860	658	10	1.1	1.1
24	.60	176	99	717	252	1000	387	1820	641	9.3	1.1	1.1
25	.60	142	91	545	252	825	374	1570	625	6.6	1.1	1.1
26	.80	121	83	468	208	717	362	1400	589	4.2	1.1	1.0
27	.90	110	75	617	194	637	501	1330	505	4.0	1.1	1.0
28	.90	452	69	1610	189	633	408	1200	422	4.2	1.1	.90
29	.90	1980	66	5180	---	577	347	1080	394	6.6	1.1	.90
30	.90	672	62	3470	---	553	312	1010	390	5.1	1.0	.90
31	.90	---	55	3550	---	569	---	895	---	5.4	1.0	---
TOTAL	21.10	9799.20	16653	24513	14953	21421	14303	33103	21923	2706.4	49.0	39.70
MEAN	.68	327	537	791	534	691	477	1068	731	87.3	1.58	1.32
MAX	.90	2170	2680	5180	1950	3500	995	1860	940	390	4.8	9.9
MIN	.60	.70	55	28	189	137	312	295	390	4.0	1.0	.80
AC-FT	42	19440	33030	48620	29660	42490	28370	65660	43480	5370	97	79

CAL YR 1966 TOTAL 79020.80 MEAN 216 MAX 2680 MIN .60 AC-FT 156700
WTR YR 1967 TOTAL 159484.40 MEAN 437 MAX 5180 MIN .60 AC-FT 316300

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.92	14	20	18	200	694	533	365	132	1.1	1.4	1.3
2	116	14	7.5	12	317	617	443	344	123	1.1	1.3	1.3
3	123	13	79	7.8	460	577	401	359	108	1.1	1.2	1.3
4	3.5	5.7	246	6.9	374	553	387	356	94	.92	1.2	1.3
5	1.1	1.2	379	5.1	335	553	374	350	86	.99	1.1	1.3
6	2.2	1.1	82	4.5	314	489	350	300	94	.99	.99	1.3
7	1.1	1.1	175	4.2	335	457	344	264	94	.92	.99	1.2
8	1.1	1.1	61	4.2	292	450	341	276	98	.99	.92	1.2
9	.99	1.1	30	51	287	394	377	292	67	.99	.92	1.1
10	.92	1.2	20	745	359	338	443	292	54	.99	.92	1.1
11	.92	1.1	14	142	298	300	497	276	32	.99	.99	1.1
12	.92	1.1	13	79	264	348	513	259	26	.92	.99	1.1
13	.92	1.1	8.7	58	240	541	460	309	22	.92	.99	1.1
14	.85	14	9.6	435	214	589	422	229	20	.92	1.1	1.1
15	.79	6.5	14	2760	187	468	432	214	17	.92	1.1	1.2
16	.85	2.5	9.0	995	229	710	422	192	14	.92	1.2	1.1
17	.92	2.0	5.4	457	1490	577	329	202	12	.92	1.2	.99
18	.99	3.0	7.5	266	1110	446	289	214	10	.92	1.6	.92
19	.99	59	6.3	183	1120	374	289	231	8.4	.92	8.6	.92
20	.92	11	4.2	138	2840	335	287	362	6.6	1.1	34	.92
21	.99	2.0	3.8	128	3550	314	266	279	5.1	1.1	18	.92
22	.99	1.4	3.8	128	2180	303	242	276	4.0	1.1	4.3	.92
23	1.1	1.8	4.0	132	2080	295	242	306	3.2	1.1	3.0	2.4
24	1.1	1.8	11	123	1500	287	235	261	3.2	1.1	2.5	.99
25	1.1	1.2	18	110	1120	365	259	261	2.5	1.1	2.0	.85
26	1.1	1.1	28	99	995	387	295	229	1.8	1.1	1.8	.85
27	1.1	1.2	59	89	935	335	326	214	1.6	1.1	1.6	.85
28	1.1	1.6	58	81	856	359	329	167	1.4	1.1	1.6	.85
29	1.1	30	40	91	753	432	353	190	1.2	1.1	1.4	.85
30	1.1	20	28	220	---	493	368	176	1.2	1.1	1.3	.79
31	13	---	21	187	---	525	---	153	---	1.2	1.3	---
TOTAL	283.68	216.9	1465.8	7759.7	25234	13905	10848	8198	1143.2	31.74	101.51	33.12
MEAN	9.15	7.23	47.3	250	870	449	362	264	38.1	1.02	3.27	1.10
MAX	123	59	379	2760	3550	710	533	365	132	1.2	34	2.4
MIN	.79	1.1	3.8	4.2	187	287	235	153	1.2	.92	.92	.79
AC-FT	563	430	2910	15390	50050	27580	21520	16260	2270	63	201	66

CAL YR 1967 TOTAL 134977.48 MEAN 370 MAX 5180 MIN .79 AC-FT 267700
WTR YR 1968 TOTAL 69220.65 MEAN 189 MAX 3550 MIN .79 AC-FT 137300

11405300 WEST BRANCH FEATHER RIVER NEAR PARADISE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

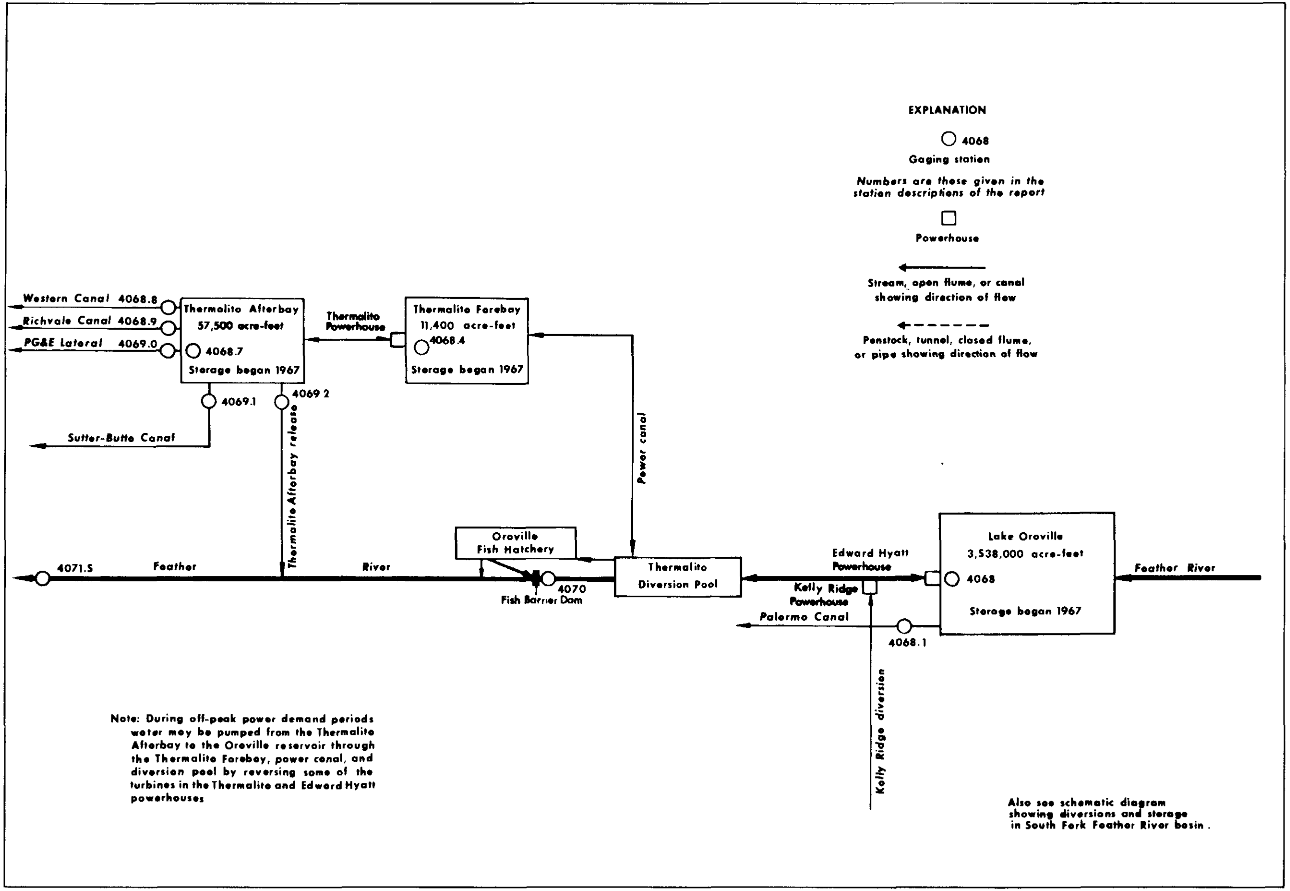
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.85	34	33	99	798	621	945	995	915	70	3.3	1.2
2	.85	116	26	92	704	537	880	945	890	56	3.1	1.4
3	.85	207	22	91	633	485	798	965	885	61	2.9	1.4
4	.85	101	19	101	585	432	686	834	880	69	2.6	1.4
5	.85	33	19	112	629	394	1210	965	830	62	2.2	1.6
6	.85	19	17	110	681	368	960	1240	748	59	2.2	1.5
7	.85	11	15	107	549	341	789	1390	662	53	2.2	1.4
8	.85	6.9	20	100	526	314	712	1460	582	50	2.1	1.4
9	.85	5.7	40	86	1250	298	668	1540	528	27	1.9	1.4
10	.85	6.0	1850	76	1100	269	633	1770	472	28	2.8	1.4
11	2.6	15	803	242	1800	247	686	1830	552	23	2.3	1.4
12	334	330	292	915	1910	235	789	1740	493	20	2.2	1.4
13	195	60	187	4450	1120	224	771	1500	476	17	1.9	1.4
14	58	37	371	1900	991	218	730	1310	490	15	1.7	1.4
15	81	50	814	925	1900	212	681	1100	524	12	1.7	1.4
16	34	43	463	601	1170	242	694	1290	472	11	1.5	1.4
17	17	39	229	446	950	314	753	1320	340	8.4	1.5	1.4
18	8.7	134	156	400	843	371	900	1350	322	6.6	1.5	1.4
19	1.4	131	124	2660	748	353	856	1290	282	5.4	1.4	1.4
20	1.1	68	95	9990	690	332	910	1160	252	5.2	1.4	1.5
21	1.1	47	79	11400	621	356	1020	1160	246	4.9	1.4	1.6
22	17	37	70	4650	577	329	1130	1220	216	4.6	1.3	1.6
23	20	34	92	2590	605	350	1310	1220	216	6.6	1.4	1.5
24	20	49	673	1800	601	356	1010	1170	196	5.4	1.4	1.4
25	20	40	841	3180	581	368	825	1160	172	4.4	1.4	1.4
26	3.2	32	359	6480	533	404	744	1160	150	3.9	1.4	1.4
27	1.1	26	216	2680	493	474	726	1040	128	3.5	1.4	1.4
28	2.0	22	192	1850	681	553	776	910	112	3.1	1.4	1.4
29	65	20	167	1380	---	625	945	920	97	2.9	1.4	1.3
30	149	33	132	1110	---	726	1010	980	84	3.7	1.4	1.2
31	64	---	112	895	---	890	---	980	---	3.5	1.5	---
TOTAL	1103.70	1786.6	8528	61518	24269	12238	25547	37914	13212	705.1	57.8	42.4
MEAN	35.6	59.6	275	1984	867	395	852	1223	440	22.7	1.86	1.41
MAX	334	330	1850	11400	1910	890	1310	1830	915	70	3.3	1.6
MIN	.85	5.7	15	76	493	212	633	834	84	2.9	1.3	1.2
AC-FT	2190	3540	16920	122000	48140	24270	50670	75200	26210	1400	115	84

CAL YR 1968 TOTAL 78672.57 MEAN 215 MAX 3550 MIN .79 AC-FT 156000
WTR YR 1969 TOTAL 186921.60 MEAN 512 MAX 11400 MIN .85 AC-FT 370800

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.7	1.4	291	975	2200	218	106	90	7.7	1.0	1.1
2	1.1	1.7	1.4	248	865	1100	211	118	76	5.8	1.1	1.0
3	1.1	2.1	1.4	214	775	865	205	132	86	3.7	1.1	1.1
4	1.1	30	1.4	200	744	788	198	148	92	2.7	1.1	1.1
5	1.1	292	1.3	172	666	670	198	160	78	2.1	1.1	1.1
6	1.1	108	1.3	161	618	598	198	152	80	1.9	1.1	1.1
7	1.1	98	1.3	153	570	582	182	125	70	1.9	1.1	1.3
8	1.6	48	1.7	207	538	820	170	132	55	1.9	1.1	1.3
9	1.7	22	1.9	1520	549	650	172	144	67	1.9	1.1	1.3
10	1.5	11	27	1840	528	590	172	172	99	1.8	1.1	1.3
11	1.4	7.3	234	985	504	518	193	184	66	1.8	1.1	1.3
12	1.2	8.7	1660	1350	706	479	167	166	45	1.6	1.1	1.1
13	1.2	7.3	1170	4980	814	465	166	146	39	1.6	1.1	1.0
14	1.3	5.2	414	8570	670	493	166	140	43	1.6	1.1	1.1
15	7.3	3.5	282	3330	618	479	154	156	42	1.6	1.1	1.3
16	117	3.3	151	6130	793	441	147	180	32	1.5	1.1	1.3
17	39	3.3	98	5310	982	435	145	259	34	1.6	1.1	1.3
18	12	1.9	75	2810	722	390	147	268	21	1.4	1.1	1.3
19	3.1	1.7	2630	2200	638	360	159	228	17	1.4	1.1	1.3
20	2.1	1.6	3080	2220	570	345	142	188	14	1.4	1.1	1.3
21	1.9	1.6	6800	8140	524	330	134	162	12	1.4	1.1	1.3
22	1.8	1.6	1530	7080	496	325	127	168	11	1.4	1.3	1.4
23	1.8	1.5	1510	10800	465	322	119	170	8.8	1.1	1.5	1.4
24	1.8	1.5	2850	9120	441	308	108	166	7.7	1.1	1.5	1.3
25	1.8	1.5	1970	3890	426	310	109	182	7.4	1.3	1.5	1.3
26	1.8	1.5	1090	2650	420	298	115	186	7.4	1.4	1.3	1.1
27	1.8	1.5	784	3990	414	271	116	178	7.4	1.4	1.3	1.1
28	1.8	1.5	598	2200	757	258	102	158	11	1.3	1.3	1.1
29	1.7	1.4	486	1660	---	252	101	138	23	1.3	1.3	1.1
30	1.7	1.4	402	1360	---	242	104	128	10	1.3	1.3	1.1
31	2.2	---	332	1130	---	228	---	116	---	1.0	1.3	---
TOTAL	218.3	673.3	28186.1	94911	17788	16412	4645	5056	1251.7	60.9	36.6	36.2
MEAN	7.04	22.4	909	3062	635	529	155	163	41.7	1.96	1.18	1.21
MAX	117	292	6800	10800	982	2200	218	268	99	7.7	1.5	1.4
MIN	1.1	1.4	1.3	153	414	228	101	106	7.4	1.0	1.0	1.0
AC-FT	433	1340	55910	188300	35280	32550	9210	10030	2480	121	73	72

CAL YR 1969 TOTAL 204581.0 MEAN 560 MAX 11400 MIN 1.1 AC-FT 405800
WTR YR 1970 TOTAL 169275.1 MEAN 464 MAX 10800 MIN 1.0 AC-FT 335800


EXPLANATION
4068
Gaging station
Numbers are those given in the station descriptions of the report
Powerhouse
Stream, open flume, or canal showing direction of flow
Penstock, tunnel, closed flume, or pipe showing direction of flow
Feather River
Lake Oroville
3,538,000 acre-feet
4068
Storage began 1967
Edward Hyatt Powerhouse
Kelly Ridge Powerhouse
Palermo Canal
4068.1
Kelly Ridge diversion
Thermalito Diversion Pool
Power canal
Oroville Fish Hatchery
4070
Fish Barrier Dam
Feather
River
4071.5
Thermalito Afterbay release
4069 2
4069.1
Sutter-Butte Canal
Thermalito Afterbay
57,500 acre-feet
4068.7
Storage began 1967
Western Canal 4068.8
Richvale Canal 4068.9
PG&E Lateral 4069.0
Thermalito Powerhouse
Thermalito Forebay
11,400 acre-feet
4068.4
Storage began 1967

Note: During off-peak power demand periods water may be pumped from the Thermalito Afterbay to the Oroville reservoir through the Thermalito Forebay, power canal, and diversion pool by reversing some of the turbines in the Thermalito and Edward Hyatt powerhouses

Also see schematic diagram showing diversions and storage in South Fork Feather River basin.

FIGURE 5.--Schematic diagram showing diversions and storage from Feather River at Lake Oroville.

11406800 LAKE OROVILLE NEAR OROVILLE, CALIF.

LOCATION.--Lat 39°32'06", long 121°28'26", in NE¼SW¼ sec.1, T.19 N., R.4 E., Butte County, near intake structure at left end of Oroville Dam on Feather River, 1.0 mile downstream from North Fork Feather River and 4.2 miles east of Oroville.

DRAINAGE AREA.--3,607 sq mi.

PERIOD OF RECORD.--November 1967 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 0.47 ft above mean sea level (levels by California Department of Water Resources).

EXTREMES.--Maximums and minimums (contents in acre-feet, gage height in feet) for November 1967 to September 1970 are contained in the following table:

	Maximum			Minimum		
Wtr yr	Date	Contents	G.H.	Date	Contents	G.H.
1968	Mav 22, 1968	1,719,300	754.44	Sept. 3, 1968	1,643,000	746.27
1969	June 22, 1969	3,503,200	897.82	Oct. 1, 1968	1,678,200	750.07
1970	May 31, 1970	3,095,000	870.62	Sept.30, 1970	2,542,000	829.44

Period of record: Maximum contents, 3,503,200 acre-ft June 22, 1969 (gage height, 897.82 ft); minimum since initial storage began, 1,643,000 acre-ft Sept. 3, 1968 (gage height, 746.27 ft).

REMARKS.--Reservoir is formed by an earthfill dam with concrete chute type sidehill spillway completed May 13, 1968; storage began Nov. 14, 1967. Usable capacity, 2,686,000 acre-ft between elevations 640.0 (minimum power pool) and 900.0 ft (normal maximum pool). Dead storage, 852,200 acre-ft. Total capacity at normal maximum pool, 3,538,000 acre-ft. Water is released to Edward Hyatt powerhouse through penstock in left abutment of dam and to Palermo Canal through concrete tunnel also in left abutment of dam. The turbines in the Edward Hyatt powerplant are reversible and during periods of low power demand water is pumped at times from the river back into Lake Oroville. Records, including extremes, represent total contents. See schematic diagram showing diversions and storage from Feather River at Lake Oroville elsewhere in this report.

COOPERATION.--Records furnished by California Department of Water Resources and reviewed by Geological Survey in connection with a Federal Power Commission project. Contents rounded to Geological Survey standards.

Capacity table, November 1967 to September 1970 (gage height, in feet, and contents, in acre-feet)

730	*1,498,000*	*790*	*2,081,000*	850	2,808,000
740	1,586,000	800	2,192,000	860	2,945,000
750	1,678,000	810	2,307,000	870	3,086,000
760	1,773,000	820	2,426,000	880	3,232,000
770	1,872,000	830	2,549,000	890	3,382,000
780	1,974,000	840	2,676,000	900	3,538,000

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 2400, NOVEMBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	41800	167500	400700	1083800	1501700	1700600	1713200	1670800	1645300	1647000
2		---	43600	169800	412700	1101500	1515300	1700100	1711400	1669300	1645200	1644800
3		---	45600	171600	424500	1116800	1526700	1698200	1709400	1669700	1644900	1643000
4		---	49900	173400	434500	1127500	1538900	1693900	1706500	1667200	1644500	1643100
5		---	58500	175300	444300	1138800	1551900	1689400	1705800	1665800	1644400	1643700
6		---	64600	177500	454000	1505500	1564800	1686200	1706600	1664500	1644100	1644700
7		---	71100	180200	465900	1164500	1577200	1684300	1708700	1663100	1645200	1645300
8		---	76100	183600	476600	1180200	1588900	1684700	1710100	1661700	1645500	1646300
9		---	80300	187900	487100	1193100	1599100	1687800	1710900	1660400	1646400	1646400
10		---	84300	198000	499200	1206100	1609600	1694100	1710100	1659200	1646600	1648300
11		---	88100	205100	510000	1216000	1619600	1697000	1710400	1657200	1647000	1648000
12		---	92800	211500	521100	1228300	1629100	1698600	1710900	1656200	1647500	1649200
13		---	98400	216200	533900	1245200	1638100	1701100	1711400	1655100	1648400	1649200
14		2480	103100	223600	546700	1260400	1647600	1705100	1710400	1653700	1648400	1648800
15		7460	107600	258200	559000	1273900	1657100	1708500	1709100	1653200	1649100	1648000
16		10000	110700	282200	572400	1290800	1666800	1711500	1706600	1652600	1648500	1649500
17		12400	113100	299400	597600	1308400	1673800	1711500	1707100	1651400	1648100	1653100
18		14900	117400	309900	621800	1323800	1682700	1711600	1705900	1651400	1647600	1655900
19		18600	121900	317200	645200	1336900	1686100	1710600	1704600	1650200	1648400	1657800
20		21900	126100	322300	703300	1348800	1690600	1714200	1702700	1648800	1649500	1659200
21		24200	130900	326800	771500	1362300	1693700	1718500	1697100	1646900	1651700	1660500
22		26200	135000	331200	830100	1373900	1696000	1719300	1692600	1646000	1651400	1661700
23		28200	138900	335300	885500	1389700	1695700	1719100	1688700	1645800	1649400	1664400
24		30100	142700	341000	933100	1402500	1698700	1718600	1684500	1646200	1647000	1668200
25		32100	146700	345600	969800	1412800	1698900	1719000	1683300	1646400	1645200	1671200
26		33400	150800	350900	999300	1425800	1699000	1718500	1681600	1646700	1645700	1674200
27		34600	155300	355200	1025100	1431900	1698700	1718100	1679700	1644900	1646800	1677000
28		35800	158400	359100	1047000	1440500	1699400	1717300	1677400	1644900	1648100	1678000
29		37900	160500	367500	1065400	1453100	1699500	1717200	1674400	1645300	1649000	1677900
30		39800	162500	381500	---	1468700	1699400	1716200	1671500	1644700	1649900	1677800
31		---	165000	391000	---	1485200	---	1715000	---	1644500	1648700	---
MAX			165000	391000	1065400	1505500	1699500	1719300	1713200	1670800	1651700	1678000
MIN			41800	167500	400700	1083800	1501700	1684300	1671500	1644500	1644100	1643000
(†)		355.51	454.23	539.22	673.76	728.50	752.33	753.98	749.35	746.43	746.89	750.03
(‡)		+39800	+125200	+226000	+674400	+419900	+214100	+15600	-43500	-27000	+4240	+29100
(††)		20	190	210	380	1470	3390	4060	6500	8120	6630	6560

WTR YR 1968 MAX 1719300 MIN 0 ‡ +1677800
‡

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN THOUSANDS OF ACRE-FEET.
†† EVAPORATION, IN ACRE-FEET.

11406800 LAKE OROVILLE NEAR OROVILLE, CALIF.--CONTINUED

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 2400, OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1678000	1704000	1801000	2074000	2782000	2756000	2978000	3023000	3339000	3489000	3352000	3026000
2	1679000	1707000	1804000	2083000	2785000	2752000	3014000	3029000	3344000	3485000	3344000	3014000
3	1679000	1711000	1808000	2091000	2788000	2747000	3032000	3037000	3352000	3482000	3344000	2996000
4	1679000	1714000	1812000	2099000	2789000	2740000	3031000	3042000	3358000	3486000	3330000	2982000
5	1683000	1716000	1817000	2108000	2794000	2740000	3037000	3045000	3367000	3498000	3315000	2967000
6	1685000	1718000	1821000	2115000	2795000	2738000	3040000	3052000	3376000	3492000	3299000	2953000
7	1686000	1719000	1822000	2123000	2795000	2735000	3039000	3064000	3392000	3485000	3284000	2953000
8	1687000	1720000	1824000	2131000	2793000	2733000	3033000	3082000	3405000	3473000	3269000	2940000
9	1688000	1720000	1830000	2140000	2799000	2733000	3028000	3104000	3413000	3472000	3260000	2926000
10	1689000	1723000	1846000	2148000	2797000	2736000	3024000	3129000	3420000	3465000	3260000	2913000
11	1690000	1725000	1860000	2164000	2794000	2742000	3017000	3152000	3429000	3459000	3245000	2900000
12	1695000	1733000	1866000	2188000	2790000	2751000	3014000	3175000	3427000	3460000	3232000	2887000
13	1698000	1738000	1874000	2260000	2782000	2758000	3017000	3195000	3446000	3461000	3218000	2880000
14	1699000	1740000	1882000	2309000	2786000	2765000	3013000	3208000	3459000	3453000	3204000	2879000
15	1702000	1746000	1896000	2334000	2800000	2772000	3007000	3216000	3471000	3446000	3192000	2867000
16	1703000	1749000	1909000	2352000	2803000	2776000	2999000	3222000	3476000	3439000	3186000	2856000
17	1704000	1753000	1919000	2366000	2797000	2782000	2993000	3229000	3481000	3430000	3186000	2842000
18	1704000	1758000	1929000	2382000	2790000	2790000	2991000	3238000	3484000	3423000	3173000	2830000
19	1703000	1763000	1936000	2435000	2786000	2801000	2988000	3248000	3486000	3428000	3161000	2820000
20	1704000	1768000	1945000	2600000	2784000	2801000	2995000	3254000	3486000	3432000	3148000	2818000
21	1703000	1772000	1951000	2811000	2779000	2800000	2995000	3257000	3495000	3428000	3135000	2818000
22	1702000	1776000	1960000	2839000	2775000	2798000	3001000	3263000	3503000	3423000	3123000	2811000
23	1701000	1777000	1969000	2829000	2771000	2799000	3012000	3270000	3502000	3418000	3116000	2804000
24	1703000	1780000	1984000	2812000	2769000	2807000	3018000	3280000	3499000	3414000	3116000	2797000
25	1701000	1782000	2002000	2833000	2763000	2818000	3020000	3287000	3496000	3405000	3103000	2790000
26	1704000	1784000	2015000	2909000	2757000	2830000	3020000	3295000	3494000	3402000	3088000	2790000
27	1705000	1789000	2026000	2915000	2755000	2844000	3018000	3306000	3492000	3406000	3074000	2790000
28	1704000	1792000	2037000	2893000	2757000	2857000	3010000	3315000	3493000	3399000	3058000	2789000
29	1704000	1795000	2048000	2877000	---	2880000	3012000	3323000	3494000	3392000	3042000	2785000
30	1705000	1798000	2057000	2818000	---	2907000	3014000	3329000	3492000	3378000	3030000	2781000
31	1705000	---	2066000	2785000	---	2938000	---	3335000	---	3366000	3028000	---
MAX	1705000	1798000	2066000	2915000	2803000	2938000	3040000	3335000	3503000	3492000	3352000	3026000
MIN	1678000	1704000	1801000	2074000	2755000	2733000	2978000	3023000	3339000	3366000	3028000	2781000
(†)	752.93	762.58	788.63	848.27	846.2	859.54	864.94	886.90	897.08	888.96	865.95	847.98
(‡)	+27200	+92800	+268300	+719100	-28600	+181800	+75400	+321000	+156800	-125500	-338000	-246800
(††)	3480	1250	1130	849	627	2540	3100	6460	8220	12710	13790	10070

CAL YR 1968 MAX 2066100 MIN 167500 ‡ +1901100
WTR YR 1969 MAX 3503200 MIN 1678200 ‡ +1103500

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN THOUSANDS OF ACRE-FEET.
†† EVAPORATION, IN ACRE-FEET.

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 2400, OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2775000	2771000	2793000	2902000	2795000	2815000	2944000	3004000	3093000	2983000	2866000	2674000
2	2771000	2778000	2790000	2884000	2789000	2819000	2950000	3012000	3092000	2973000	2871000	2662000
3	2776000	2777000	2788000	2875000	2790000	2817000	2953000	3019000	3088000	2970000	2863000	2653000
4	2767000	2775000	2784000	2868000	2795000	2815000	2963000	3017000	3084000	2973000	2853000	2646000
5	2771000	2777000	2781000	2864000	2799000	2812000	2974000	3013000	3079000	2976000	2845000	2640000
6	2767000	2777000	2787000	2861000	2801000	2809000	2978000	3014000	3084000	2968000	2836000	2638000
7	2763000	2776000	2793000	2858000	2805000	2804000	2981000	3014000	3088000	2961000	2829000	2641000
8	2760000	2784000	2789000	2856000	2808000	2804000	2985000	3014000	3082000	2954000	2833000	2631000
9	2758000	2792000	2782000	2867000	2810000	2801000	2987000	3023000	3079000	2946000	2837000	2624000
10	2758000	2790000	2781000	2895000	2811000	2799000	2990000	3033000	3075000	2937000	2826000	2618000
11	2764000	2789000	2776000	2911000	2812000	2795000	3000000	3034000	3073000	2939000	2817000	2611000
12	2771000	2787000	2784000	2919000	2815000	2790000	3008000	3036000	3070000	2940000	2808000	2605000
13	2767000	2786000	2802000	2946000	2824000	2788000	3008000	3038000	3074000	2936000	2799000	2610000
14	2764000	2785000	2814000	3001000	2829000	2787000	3010000	3039000	3076000	2931000	2788000	2604000
15	2764000	2791000	2809000	2959000	2825000	2795000	3013000	3039000	3077000	2925000	2788000	2597000
16	2766000	2798000	2804000	2959000	2824000	2799000	3015000	3048000	3074000	2918000	2792000	2592000
17	2765000	2797000	2797000	2947000	2829000	2803000	3016000	3058000	3069000	2911000	2780000	2588000
18	2769000	2793000	2788000	2895000	2828000	2805000	3025000	3061000	3064000	2915000	2771000	2585000
19	2775000	2789000	2806000	2833000	2826000	2806000	3033000	3062000	3054000	2920000	2762000	2591000
20	2773000	2787000	2849000	2793000	2822000	2818000	3030000	3064000	3058000	2913000	2752000	2597000
21	2771000	2784000	2940000	2879000	2815000	2833000	3027000	3066000	3060000	2906000	2742000	2592000
22	2768000	2790000	2961000	2956000	2808000	2849000	3024000	3064000	3052000	2901000	2740000	2586000
23	2766000	2798000	2984000	3002000	2800000	2859000	3020000	3072000	3042000	2895000	2746000	2580000
24	2764000	2792000	3029000	3070000	2793000	2868000	3013000	3080000	3032000	2893000	2736000	2584000
25	2772000	2788000	3038000	3046000	2787000	2878000	3018000	3081000	3020000	2898000	2725000	2587000
26	2778000	2785000	3030000	2990000	2788000	2888000	3025000	3082000	3010000	2901000	2716000	2572000
27	2775000	2791000	3012000	2958000	2787000	2896000	3020000	3084000	3006000	2894000	2705000	2571000
28	2773000	2787000	2990000	2915000	2790000	2908000	3016000	3084000	3010000	2888000	2693000	2562000
29	2770000	2792000	2965000	2862000	---	2922000	3011000	3084000	3001000	2881000	2692000	2552000
30	2767000	2798000	2940000	2820000	---	2930000	3007000	3090000	2992000	2875000	2697000	2542000
31	2764000	---	2920000	2803000	---	2938000	---	3095000	---	2867000	2686000	---
MAX	2778000	2798000	3038000	3070000	2829000	2938000	3033000	3095000	3093000	2983000	2871000	2674000
MIN	2758000	2771000	2776000	2793000	2787000	2787000	2944000	3004000	2992000	2867000	2686000	2542000
(†)	846.70	849.24	858.18	849.61	848.59	859.49	864.44	870.62	863.38	854.34	840.73	829.44
(‡)	-17000	+34000	+122000	-117000	-13000	+148000	+69000	+88000	-103000	-125000	-181000	-144000
(††)	5440	2800	1090	1110	1610	3240	4500	7530	8830	12560	12120	10310

CAL YR 1969 MAX 3503000 MIN 2074000 ‡ +854000
WTR YR 1970 MAX 3095000 MIN 2542000 ‡ -239000

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN THOUSANDS OF ACRE-FEET.
†† EVAPORATION, IN ACRE-FEET.

11406810 PALERMO CANAL NEAR OROVILLE, CALIF.

LOCATION.--Lat 39°31'59", long 121°28'55", in SW¼SW¼ sec.1, T.19 N., R.4 E., Butte County, on right bank 50 ft downstream from Oroville Dam and 4.4 miles east of Oroville.

PERIOD OF RECORD.--April 1965 to September 1970. Monthly discharge only, April 1965 to September 1968. Daily discharge of diversion from Kelly Ridge penstock April 1965 to October 1968, when Kelly Ridge penstock supplied the entire flow of Palermo Canal, are in files of district office.

GAGE.--Water-stage recorder and Parshall flume. Datum of gage is 547.67 ft above mean sea level (levels by California Department of Water Resources). April 1965 to October 1968 water-stage recorder and Parshall flume at site of diversion from Kelly Ridge penstock 0.4 mile downstream at different datum.

AVERAGE DISCHARGE.--5 years, 12.7 cfs (9,200 acre-ft per year).

EXTREMES.--Period of record: Maximum daily discharge, 28 cfs for several days in July to September 1967; no flow for several days in 1967, 1970.

REMARKS.--Canal diverts from left end of Oroville Dam. Water is used for irrigation near Oroville. During period of construction of Oroville Dam, water was released from Kelly Ridge penstock to meet irrigation requirements.

COOPERATION.--Records collected by California Department of Water Resources under general supervision of Geological Survey in connection with a Federal Power Commission project.

MONTHLY AND YEARLY MEAN DISCHARGES, IN CUBIC FEET PER SECOND, APRIL 1965 TO SEPTEMBER 1968

WTR YR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	THE YR
1965	-	-	-	-	-	-	4.03	12.5	17.4	18.6	20.0	20.0	-
1966	12.6	5.50	5.00	5.00	5.00	5.01	9.07	19.5	20.3	20.4	20.1	20.0	12.3
1967	15.1	6.48	5.06	5.01	4.87	5.05	3.12	10.3	17.4	27.1	27.9	26.5	12.9
1968	13.6	4.89	1.24	4.15	5.00	5.00	11.2	23.5	23.0	24.0	23.2	19.2	13.2

MONTHLY AND YEARLY DISCHARGES, IN ACRE-FEET, APRIL 1965 TO SEPTEMBER 1968

WTR YR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	THE YR
1965	-	-	-	-	-	-	240	768	1,030	1,140	1,230	1,180	-
1966	774	327	307	307	278	308	540	1,200	1,210	1,250	1,240	1,190	8,930
1967	930	386	311	308	271	310	186	633	1,040	1,660	1,720	1,580	9,330
1968	834	291	76	255	288	307	667	1,440	1,370	1,480	1,430	1,140	9,580

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	5.6	5.8	4.5	.60	.50	.50	10	23	23	23	21
2	20	5.6	5.8	4.5	.60	.50	.50	10	23	23	23	21
3	20	5.6	5.8	4.5	.60	.50	.50	10	23	23	23	21
4	20	5.6	5.8	4.5	.50	.50	.50	10	23	23	23	21
5	20	5.6	6.0	4.5	.50	.50	.50	15	23	23	23	21
6	20	5.6	6.0	4.5	.50	.50	.50	20	23	23	23	21
7	20	5.6	6.2	4.5	.50	.50	.50	20	23	23	23	21
8	20	5.6	6.2	4.5	.50	.50	.50	20	23	23	23	21
9	20	5.6	6.2	4.5	.50	.50	.50	20	23	23	23	21
10	18	5.6	6.2	4.5	.60	.50	.50	20	23	23	23	21
11	16	5.6	6.4	4.5	.60	.50	.50	20	23	23	23	21
12	16	5.6	6.0	4.6	.60	.50	.50	20	23	23	23	21
13	16	5.6	5.4	3.6	.60	.50	.50	20	23	23	23	20
14	16	5.8	5.4	3.0	.70	.50	.50	20	23	23	23	20
15	10	5.8	5.4	3.0	.70	.50	.50	20	23	23	22	20
16	6.4	5.8	5.4	3.0	.70	.50	.50	20	23	23	22	20
17	6.4	5.8	5.4	3.0	.70	.50	.50	20	23	23	22	20
18	6.4	5.8	5.4	3.0	.70	.50	.50	20	23	23	22	20
19	6.4	5.8	5.6	3.0	.70	.50	.50	20	23	23	22	20
20	6.4	5.8	5.6	3.0	.70	.50	.50	20	23	23	22	20
21	6.4	5.8	5.6	3.2	.60	.50	.50	20	23	23	22	20
22	8.1	5.8	5.6	3.2	.60	.50	6.6	20	23	23	22	20
23	5.7	5.8	4.8	3.2	.60	.50	9.9	20	23	23	22	20
24	5.6	5.8	4.3	3.2	.60	.50	10	22	23	23	22	20
25	5.6	5.8	4.3	3.2	.60	.50	8.9	22	23	23	22	20
26	5.6	5.8	4.3	3.0	.50	.50	9.9	22	23	23	22	20
27	5.6	5.8	4.3	3.0	.50	.50	10	23	23	23	22	20
28	5.6	5.8	4.3	3.0	.50	.50	10	23	23	23	22	20
29	5.6	5.8	4.3	3.0	---	.50	10	23	23	23	22	20
30	5.6	5.8	4.3	3.0	---	.50	10	23	23	23	22	20
31	5.6	---	4.3	1.6	---	.50	---	23	---	23	22	---
TOTAL	369.0	171.4	166.4	111.3	16.60	15.50	95.80	596	690	713	696	612
MEAN	11.9	5.71	5.37	3.59	.59	.50	3.19	19.2	23.0	23.0	22.5	20.4
MAX	20	5.8	6.4	4.6	.70	.50	10	23	23	23	23	21
MIN	5.6	5.6	4.3	1.6	.50	.50	.50	10	23	23	22	20
AC-FT	732	340	330	221	33	31	190	1180	1370	1410	1380	1210

CAL YR 1968 TOTAL 4,928.80 MEAN 13.5 MAX 25 MIN .10 AC-FT 9,780
WTR YR 1969 TOTAL 4,253.00 MEAN 11.7 MAX 23 MIN .50 AC-FT 8,440

11406810 PALERMO CANAL NEAR OROVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	9.9	4.8	4.8	0	4.0	8.1	21	22	21	21	21
2	20	9.9	4.5	4.8	0	4.0	11	21	22	21	21	21
3	20	9.9	4.6	4.6	0	4.0	11	21	22	21	21	21
4	20	9.9	4.6	4.6	0	4.0	11	21	22	21	21	21
5	20	9.9	4.6	4.6	1.7	4.0	11	21	22	21	21	21
6	20	4.9	4.6	4.6	3.4	4.0	14	21	22	21	21	21
7	20	2.2	4.6	4.6	3.4	4.0	16	21	22	21	21	21
8	20	2.2	4.6	4.6	3.4	4.1	20	21	22	21	21	21
9	20	2.2	4.6	4.6	3.4	4.1	23	21	21	21	21	21
10	20	3.6	4.6	4.6	3.4	3.8	23	21	22	21	21	21
11	20	4.5	4.6	4.6	3.4	3.6	23	21	22	21	21	21
12	20	4.5	4.6	4.6	3.7	3.6	23	21	22	21	21	21
13	19	4.5	4.6	4.6	3.7	3.6	23	21	22	21	21	21
14	18	4.5	4.8	3.1	3.7	3.6	23	21	22	21	21	21
15	14	4.5	4.8	0	3.7	3.6	23	22	22	21	21	21
16	11	4.6	4.8	0	3.7	3.7	21	22	22	21	21	21
17	11	4.6	4.8	0	3.7	3.8	20	22	22	21	21	21
18	11	4.6	4.8	0	3.7	3.8	20	22	22	21	21	21
19	11	4.6	4.8	0	3.7	3.8	20	22	22	21	21	21
20	11	4.6	4.8	0	3.7	3.8	20	22	22	21	21	21
21	12	4.6	4.8	0	3.9	3.9	20	22	22	21	21	21
22	10	4.6	4.8	0	3.9	3.9	20	22	22	21	21	21
23	9.9	4.6	5.0	0	3.9	4.0	20	22	22	21	21	21
24	9.9	4.6	5.0	0	3.9	4.1	20	22	22	21	21	21
25	9.9	4.8	4.8	0	3.9	4.1	20	22	22	21	21	21
26	9.9	4.8	4.8	0	4.1	4.1	20	22	22	21	21	21
27	9.9	4.8	4.8	0	4.1	4.1	22	22	22	21	21	21
28	9.9	4.6	4.8	0	4.1	4.1	23	21	22	21	21	21
29	9.9	4.8	4.8	0	---	4.1	23	22	22	21	21	21
30	9.9	4.8	4.8	0	---	4.1	21	22	22	21	21	21
31	9.9	---	4.8	0	---	4.1	---	22	---	21	21	---
TOTAL	457.1	157.1	146.7	63.3	87.2	121.5	573.1	667	659	651	651	630
MEAN	14.7	5.24	4.73	2.04	3.11	3.92	19.1	21.5	22.0	21.0	21.0	21.0
MAX	20	9.9	5.0	4.8	4.1	4.1	23	22	22	21	21	21
MIN	9.9	2.2	4.5	0	0	3.6	8.1	21	21	21	21	21
AC-FT	907	312	291	126	173	241	1140	1320	1310	1290	1290	1250

CAL YR 1969 TOTAL 4307.10 MEAN 11.8 MAX 23 MIN .50 AC-FT 8540
WTR YR 1970 TOTAL 4864.00 MEAN 13.3 MAX 23 MIN 0 AC-FT 9650

11406870 THERMALITO AFTERBAY NEAR OROVILLE, CALIF.

LOCATION.--Lat 39°27'30", long 121°38'17", in NE¼SE¼ sec.33, T.19 N., R.3 E., Butte County, at dam 195 ft northeast of centerline of outlet structure and 5.7 miles southwest of Oroville.

PERIOD OF RECORD.--October 1967 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 100.47 ft above mean sea level (levels by California Department of Water Resources). Auxiliary water-stage recorder 90 ft southwest of centerline of Western Canal Outlet and 7.2 miles west of Oroville.

EXTREMES.--Maximums and minimums (contents in acre-feet, gage height in feet) for the water years 1968-70 are contained in the following table:

	Maximum			Minimum		
Wtr yr	Date	Contents	G.H.	Date	Contents	G.H.
1968	Dec. 14, 1967	22,950	127.01	Mar. 1, 1968	5,590	119.09
1969	May 24, 1969	57,300	136.56	Feb. 18, 1969	13,000	123.05
1970	Sept. 4, 1970	55,670	136.18	Sept.27, 1970	16,330	124.49

Period of record: Maximum contents, 57,300 acre-ft May 24, 1969 (gage height, 136.56 ft); minimum since initial operation began, 5,590 acre-ft Mar. 1, 1968 (gage height, 119.09 ft).

REMARKS.--Reservoir is formed by an earthfill dam completed in 1967; diversion from the reservoir began Oct. 12, 1967. *Usable capacity, 61,134 acre-ft between gage heights 120.0 and 139.0 ft, extreme operating levels.* Normal operating range is 123 to 136.5 ft. Water is released to four canals and to Feather River from the reservoir (see stations 11406800, 11406890, 11406900, 11406910, 11406920). Total maximum release to the four canals is approximately 4,000 cfs. Water is pumped, at times, from Thermalito afterbay back into Thermalito forebay during off-peak periods to be re-released through Thermalito powerplant for power generation during peak demand periods. Records, including extremes, represent total contents. See schematic diagram showing diversions and storage from Feather River at Lake Oroville elsewhere in this report.

Capacity table, water years 1968-70 (gage height, in feet, and contents, in acre-feet)

120.0	7,054	126.0	20,171	134.0	46,719
122.0	10,792	128.0	25,832	139.0	68,198
124.0	15,157	130.0	32,150		

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	1570	14460	21610	21640	5590	12910	13820	19640	19120	20250	20760
2	---	1570	15340	21640	21420	5790	15490	13640	19560	19460	20380	20920
3	---	1570	17430	21660	20600	7790	16790	13510	19590	20010	20520	20550
4	---	1570	19590	21860	19900	9980	15540	13460	20200	20360	20220	19850
5	---	1570	19930	22020	19060	12410	15720	13440	20010	20710	20300	19960
6	---	1570	20490	21970	18750	17480	15770	13550	18830	20550	20380	19750
7	---	1570	20650	21750	18600	17890	15800	13550	18800	20090	20220	19590
8	---	1570	21060	21580	18060	18520	15820	13730	18910	20040	20250	19850
9	---	1570	21420	21520	18940	15940	16060	13820	18960	20870	20170	20060
10	---	1570	21880	21640	18240	14690	16300	14140	18800	19380	20200	19320
11	---	1570	22410	21520	17430	15180	16450	14670	18700	20870	20280	20520
12	270	1570	22750	21910	16010	15870	16280	15320	18940	20440	20120	21200
13	1300	1570	22810	22020	8390	16180	15582	16990	19060	19980	20180	20870
14	1570	1690	22950	21910	6230	17780	14690	16330	19060	20060	20380	20820
15	1570	2345	22690	21200	5840	18650	14300	16620	19200	20170	20600	20710
16	1570	4100	22690	20600	5880	16990	15020	17180	20200	20360	20710	20200
17	1570	6540	22670	19850	5760	15420	18650	16910	18140	20380	20600	19960
18	1570	7050	22720	20280	5730	15630	15020	18320	18370	20550	20550	19850
19	1570	7000	22690	20870	5760	17860	14670	19480	18500	20550	20380	20060
20	1570	7680	22690	20330	5710	17480	14740	20140	18780	20490	20170	20330
21	1570	8850	22670	20440	5730	17380	14970	19960	18750	20410	20330	20280
22	1570	10040	22640	20920	5690	19590	15390	19640	18650	20490	20600	20170
23	1570	11200	22640	21520	5680	20650	15200	19750	18650	20060	20820	20170
24	1570	12260	22580	21770	5660	20220	13870	19590	18650	20060	21140	19960
25	1570	12690	22580	21860	5650	19320	13840	19480	18700	20280	21010	20410
26	1570	13060	22750	22110	5640	18040	13690	19610	18750	20300	20650	19300
27	1570	13240	22720	22130	5620	16590	14090	19690	18680	20380	20380	17990
28	1570	13370	22220	22130	5610	13690	14370	19610	18860	20360	20060	16640
29	1570	13710	21580	22810	5000	13260	14140	19560	18940	20380	20440	15300
30	1570	14070	21520	22810	---	11630	13960	19540	18990	20490	20490	16740
31	1570	---	21580	22410	---	10550	---	19590	---	20490	20650	---
MAX		14070	22950	22810	21640	20650	18650	20140	20200	20870	21140	21200
MIN		1570	14460	19850	5000	5590	12910	13440	18140	19120	20060	15300
(†)	119.10	123.53	126.52	126.82		121.88	123.48	125.78	125.55	126.12	126.18	124.66
(‡)	+1570	+12500	+7510	+830	-16810	+4950	+3410	+5630	-600	+1500	+160	-3910
(††)	49	263	548	303	224	538	1200	1520	2340	2940	2550	2380

WTR YR 1968 MAX 22950 MIN 0 ‡ +16740

† GAGE HEIGHT, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.
†† EVAPORATION, IN ACRE-FEET.

11406870 THERMALITO AFTERBAY NEAR OROVILLE, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17860	17940	14000	16990	13510	14230	16740	39340	50010	42770	39850	21970
2	19120	17990	15720	16010	12070	14440	15180	39820	51650	44960	40070	23490
3	20090	16280	15920	16380	13350	14580	15300	39050	53560	47040	32720	27380
4	20490	19480	14640	17140	14050	18010	15770	39780	53730	41640	39410	30770
5	18620	21090	14850	16400	14340	14740	17410	44220	53060	35900	45385	33700
6	14640	21030	16040	16350	14550	16350	20330	47590	51360	28620	48310	37850
7	14390	18240	20120	18090	13020	16400	21310	47750	43950	32420	52220	28470
8	14640	19640	15160	17940	13840	16840	22840	47040	38360	35760	55330	31950
9	14920	19040	15820	18620	13330	16940	23600	46170	38610	38470	53600	35700
10	15060	15300	16590	18470	13710	16670	23380	45540	39270	41260	42350	39300
11	15110	18700	17560	20600	13820	15160	23350	46050	39740	44610	44650	43300
12	15250	19060	18370	19320	13600	15630	22920	46960	40520	38500	45930	47510
13	15540	18370	19670	16760	13420	15440	21910	46230	40890	31690	47990	46800
14	16060	18040	19480	14120	13890	15940	24650	50580	35560	34590	48670	37680
15	16470	17780	18390	14550	13820	16520	27130	53430	30180	38470	50820	39270
16	16200	15680	18600	14510	13710	17040	29070	55840	29420	42240	44070	42770
17	15160	14390	18550	19250	13910	18010	29990	56700	30540	46280	30570	46880
18	14510	16010	19170	18780	13000	18140	31290	56580	33830	48150	30410	51650
19	15060	15680	19540	19820	14670	17040	33560	56780	38400	39710	32220	55330
20	13980	15920	19690	18860	14760	19220	29860	56870	39630	31290	34210	48310
21	16250	16500	19850	16590	16080	18440	31490	56650	34240	31650	35830	39560
22	18340	16590	17840	16350	16230	18140	33420	57210	28090	32550	37530	37500
23	19320	15940	18240	16130	17310	17630	34900	56960	31100	32550	32050	37070
24	19090	14880	17380	16180	16670	18960	37820	57300	32780	31490	20650	34930
25	17280	16400	17060	16540	16300	17480	38540	57130	36540	34040	22130	35030
26	16250	16570	16940	16380	14670	16300	37890	56230	39780	30440	26680	37460
27	13690	16500	16670	16060	13510	16760	37500	55160	40550	18910	30120	28220
28	14180	16250	17240	15820	14070	16640	38470	52890	40300	19010	34720	18040
29	14710	16520	17090	15650	---	16740	38610	50130	40300	21580	39160	19640
30	15630	15270	17090	15200	---	16740	38830	50010	40960	26620	37890	22410
31	16940	---	17240	14900	---	16960	---	50090	---	32950	29800	---
MAX	20490	21090	20120	20600	17310	19220	38830	57300	53730	48150	55330	55330
MIN	13690	14390	14000	14120	12070	14230	15180	39050	28090	18910	20650	18040
(†)	124.74	124.05	124.86	123.89	123.53	124.75	131.92	134.84	132.50	130.24	129.28	126.82
(‡)	+200	-1670	+1970	-2340	-830	+2890	+21870	+11260	-9130	-8010	-3150	-7390
(††)	1310	571	449	222	320	637	1100	3100	3040	3560	3720	2890

CAL YR 1968 MAX 22810 MIN 0 ‡ -4340
WTR YR 1969 MAX 57300 MIN 12070 ‡ +5670

† GAGE HEIGHT, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.
†† EVAPORATION, IN ACRE-FEET.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26560	33560	31060	35620	27470	36040	27600	44530	26190	50580	51230	45850
2	29480	28190	34040	36890	28780	36540	26620	36960	28690	54780	42160	51360
3	34380	29860	36680	32580	30060	36470	28220	29260	31980	54480	44650	54530
4	28030	29740	39890	28620	31690	37750	24240	32450	36120	47710	48230	55670
5	21750	32350	43840	28060	33290	38900	18500	35760	38870	40960	50990	54820
6	24470	34380	37680	31490	34520	39490	20650	38000	31720	44140	54320	51400
7	28220	37960	30900	34590	34280	39120	23780	40890	24850	47150	55160	42840
8	31390	32680	34690	38140	33630	38980	29960	42660	27350	50090	45150	46880
9	33220	27320	38830	42920	33830	38760	34240	36260	29740	52640	34310	48950
10	32950	29960	42160	40180	34690	36820	34410	29800	32150	54740	37180	50910
11	26580	33160	48430	29580	34930	35830	28660	31720	32220	47790	40260	53640
12	19900	35830	52600	25000	34760	34760	22750	33560	32320	40960	43530	52930
13	23490	38250	42120	26800	35620	33900	24820	35280	25710	44030	46920	43380
14	27290	40960	31320	27600	32990	32420	30900	37140	19090	46880	50010	44260
15	30510	35480	33760	29860	31950	24710	32480	40590	17940	48830	42160	46800
16	33460	29220	38720	29990	32850	24590	33940	34930	19140	52640	30770	47150
17	36960	30440	43380	31000	33490	24820	34860	29040	21030	54650	33190	47510
18	31000	33630	48310	32620	33290	24210	28090	30020	22950	48910	36470	46170
19	25060	37250	54060	34000	33490	25000	21090	31230	29800	42050	40070	37180
20	28160	41190	48950	34860	34520	26130	21860	32550	23260	45000	44070	27720
21	31160	44030	38500	37320	34790	23920	24760	33870	16540	48350	48790	28220
22	33760	37680	44220	38470	34650	20170	27840	38580	21910	50460	43760	30120
23	36180	31360	54480	42430	35560	23090	31100	32750	26830	53640	33290	32350
24	37180	36010	54570	44690	36180	26620	37030	26890	32780	54060	37420	24530
25	31190	41300	51480	42920	37750	29640	28970	28340	40370	47080	41040	16840
26	25120	45540	48590	37890	37750	32850	21140	29610	44690	40180	44030	23980
27	27910	39780	45850	32820	38030	35210	25570	31230	42310	42840	48710	16330
28	31190	45820	43220	27350	37750	32580	30700	32780	35350	46090	53730	18390
29	34040	40220	41040	25830	---	28030	35870	34450	39850	48790	47710	21360
30	37180	34310	38650	26250	---	28160	40300	28560	44650	51890	36400	25240
31	39270	---	37250	26800	---	27840	---	23660	---	55590	40930	---
MAX	39270	45820	54570	44690	38030	39490	40300	44530	44690	55590	55160	55670
MIN	19900	27320	30900	25000	27470	20170	18500	23660	16540	40180	30770	16330
(†)	132.04	130.64	131.48	128.32	131.62	128.66	132.32	127.26	133.47	136.16	132.49	127.80
(‡)	+16860	-4960	+2940	-10450	+10950	-9910	+12460	-16640	+20990	+10940	-14660	-15690
(††)	2000	939	603	438	478	1110	1560	2880	2900	4500	3890	3360

CAL YR 1969 MAX 57300 MIN 13000 ‡ +20010
WTR YR 1970 MAX 55670 MIN 16330 ‡ +2830

† GAGE HEIGHT, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.
†† EVAPORATION, IN ACRE-FEET.

11406880 WESTERN CANAL AT INTAKE, NEAR OROVILLE, CALIF.

LOCATION.--Lat 39°30'19", long 121°41'06", in SW¼NW¼ sec.18, T.19 N., R.3 E., Butte County, on left bank 500 ft downstream from Thermalito Afterbay Dam and 7.3 miles west of Oroville.

PERIOD OF RECORD.--October 1967 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 100.47 ft above mean sea level (levels by California Department of Water Resources).

EXTREMES.--Period of record: Maximum daily discharge, 955 cfs May 4, 5, 1968; no flow for several months in each year.

REMARKS.--Water is diverted from Thermalito afterbay and is used for irrigation. See schematic diagram showing diversions and storage from Feather River at Lake Oroville elsewhere in this report.

COOPERATION.--Records collected by California Department of Water Resources under general supervision of Geological Survey in connection with a Federal Power Commission project.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		307	164	161			0	911	624	706	670	430
2		307	148	162			0	940	632	714	664	430
3		307	80	161			0	952	640	720	660	430
4		292	0	87			0	955	676	718	660	418
5		292	0	0			0	955	686	720	656	416
6		292	82	0			0	941	678	716	656	406
7		307	164	0			0	930	650	716	646	392
8		323	134	0			64	919	636	714	646	380
9		323	133	0			259	857	636	710	630	360
10		323	134	0			340	769	598	698	632	344
11		323	134	0			329	686	582	694	628	281
12		323	136	0			319	663	590	698	630	220
13	100	292	136	0			308	645	590	692	630	172
14	292	323	161	0			298	639	610	694	620	153
15	292	355	176	0			322	582	624	694	616	131
16	277	292	174	0			399	558	632	694	594	119
17	277	307	176	0			427	548	640	682	550	88
18	292	292	168	0			495	518	646	678	542	72
19	292	277	168	0			580	507	678	682	520	72
20	287	277	168	0			674	505	692	682	512	72
21	292	323	168	0			725	502	692	682	500	72
22	292	323	168	0			756	499	692	682	498	72
23	292	339	168	0			764	496	692	678	484	70
24	292	307	168	0			745	494	690	676	478	72
25	292	307	167	0			774	491	690	682	462	149
26	292	292	167	0			823	488	698	684	446	201
27	292	292	168	0			854	485	706	674	440	197
28	292	292	167	0			854	483	716	672	446	198
29	292	277	163	0			885	515	694	672	440	200
30	292	262	162	0	---		904	520	694	670	432	200
31	307	---	160	0	---		---	576	---	672	432	---
TOTAL		9148	4462	571	0	0	12898	20529	19704	21466	17420	6817
MEAN		305	144	18.4	0	0	430	662	657	692	562	227
MAX		355	176	162	0	0	904	955	716	720	670	430
MIN		262	0	0	0	0	0	483	582	670	432	70
AC-FT		18150	8850	1130	0	0	25580	40720	39080	42580	34550	13520

11406880 WESTERN CANAL AT INTAKE, NEAR OROVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	208	227	148				0	638	558	605	605	340
2	201	229	148				0	725	556	610	599	345
3	197	186	149				0	759	555	607	608	375
4	196	159	150				0	762	554	603	608	307
5	199	161	145				0	769	552	600	612	305
6	200	159	146				0	796	551	587	610	275
7	201	152	156				0	801	554	600	612	250
8	199	152	151				0	833	550	605	613	248
9	197	156	148				0	906	546	607	605	245
10	221	148	50				0	871	552	600	600	238
11	246	150	0				0	851	554	599	601	253
12	233	150	0				0	853	550	610	590	222
13	201	150	0				0	782	551	610	600	202
14	137	148	0				0	756	551	606	565	198
15	205	148	0				0	689	548	605	549	203
16	204	146	0				68	656	555	606	561	200
17	202	149	0				100	655	547	600	570	136
18	200	149	0				98	653	552	603	560	104
19	198	150	0				98	620	556	611	562	40
20	199	150	0				98	567	556	607	573	0
21	198	153	0				133	543	550	605	537	0
22	207	153	0				212	545	543	603	519	0
23	205	152	0				256	551	548	605	500	0
24	227	150	0				255	550	553	603	481	0
25	235	152	0				286	550	557	605	486	0
26	227	152	0				297	550	551	600	455	0
27	222	152	0				328	546	554	599	440	0
28	218	150	0				410	542	552	601	405	0
29	225	150	0		---		481	539	572	608	398	102
30	227	152	0		---		565	555	592	611	399	246
31	235	---	0		---		---	560	---	608	350	---
TOTAL	6470	4735	1391	0	0	0	3685	20973	16620	18729	16773	4834
MEAN	209	158	44.9	0	0	0	123	677	554	604	541	161
MAX	246	229	156	0	0	0	565	906	592	611	613	375
MIN	137	146	0	0	0	0	0	539	543	587	350	0
AC-FT	12830	9390	2760	0	0	0	7310	41600	32970	37150	33270	9590

CAL YR 1968 TOTAL 112001.00 MEAN 306 MAX 955 MIN 0 AC-FT 222200
WTR YR 1969 TOTAL 94210.00 MEAN 258 MAX 906 MIN 0 AC-FT 186900

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	263	248	245				43	688	451	523	502	292
2	255	246	248				62	669	467	512	497	276
3	258	246	248				62	703	489	518	505	276
4	262	242	245				59	687	515	515	511	270
5	242	240	248				54	666	522	513	507	258
6	235	241	245				55	624	526	508	504	248
7	260	180	248				62	577	517	513	507	253
8	252	147	184				65	515	517	500	509	262
9	242	152	160				90	503	514	493	496	220
10	250	191	148				106	512	515	494	504	199
11	250	210	52				165	498	543	488	509	194
12	237	208	0				201	432	533	483	498	200
13	230	205	0				201	405	528	492	484	194
14	257	205	0				207	405	524	492	488	192
15	257	205	0				204	405	533	488	494	152
16	219	205	0				267	400	492	506	491	132
17	197	205	0				301	402	507	511	495	133
18	200	208	0				364	400	507	515	491	74
19	196	208	0				456	409	517	503	477	52
20	193	208	0				502	411	513	512	467	50
21	200	228	0				588	406	514	502	468	55
22	235	245	0				680	411	510	503	431	55
23	252	245	0				766	410	507	509	403	48
24	254	251	0				803	408	505	503	406	54
25	248	253	0				788	426	507	511	409	117
26	255	248	0				780	450	518	505	387	155
27	250	248	0				719	454	528	501	347	159
28	257	253	0				707	467	530	505	346	157
29	254	251	0		---		694	456	529	502	346	175
30	254	253	0		---		707	449	524	508	323	246
31	254	---	0		---		---	449	---	506	321	---
TOTAL	7468	6675	2271	0	0	0	10758	15097	15402	15634	14123	5148
MEAN	241	223	73.3	0	0	0	359	487	513	504	456	172
MAX	263	253	248	0	0	0	803	703	543	523	511	292
MIN	193	147	0	0	0	0	43	400	451	483	321	48
AC-FT	14810	13240	4500	0	0	0	21340	29940	30550	31010	28010	10210

CAL YR 1969 TOTAL 98028.00 MEAN 269 MAX 906 MIN 0 AC-FT 194400
WTR YR 1970 TOTAL 92576.00 MEAN 254 MAX 803 MIN 0 AC-FT 183600

11406890 RICHVALE CANAL AT INTAKE, NEAR OROVILLE, CALIF.

LOCATION.--Lat 39°30'19", long 121°41'06", in SW¼NW¼ sec.18, T.19 N., R.3 E., Butte County, on right bank 500 ft downstream from axis of Thermalito Afterbay Dam and 7.3 miles west of Oroville.

PERIOD OF RECORD.--April 1968 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 100.47 ft above mean sea level (levels by California Department of Water Resources).

EXTREMES.--Period of record: Maximum daily discharge, 377 cfs May 12, 13, 1969; no flow for several months in each year.

REMARKS.--Canal diverts from Thermalito afterbay; water is used for irrigation. The canal is part of the Oroville project. See schematic diagram showing diversions and storage from Feather River at Lake Oroville elsewhere in this report.

COOPERATION.--Records collected by California Department of Water Resources under general supervision of Geological Survey in connection with a Federal Power Commission project.

DISCHARGE, IN CUBIC FEET PER SECOND, APRIL TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								257	216	245	236	107
2								256	214	245	237	111
3								256	213	245	238	112
4								256	236	244	237	110
5								256	244	246	237	108
6								256	244	248	215	107
7								256	245	243	204	108
8								257	245	243	205	108
9								256	245	244	204	108
10								257	246	243	205	108
11								225	245	245	205	59
12								214	245	248	165	27
13							46	214	245	245	147	24
14							84	212	245	245	147	24
15							124	215	246	237	149	24
16							150	216	245	235	150	24
17							232	215	245	235	151	24
18							277	217	246	236	150	24
19							277	216	246	236	148	24
20							276	215	246	236	122	10
21							275	216	245	236	107	5.0
22							277	214	245	236	107	5.0
23							276	214	245	236	109	5.0
24							275	215	244	236	110	3.0
25							276	215	245	236	108	0
26							233	216	245	236	110	0
27							199	217	243	236	111	0
28							200	217	243	237	111	0
29							238	216	243	235	111	0
30							257	216	244	235	112	0
31							------	216	---	235	112	---
TOTAL								7094	7244	7438	4960	1369.0
MEAN								229	241	240	160	45.6
MAX								257	246	248	238	112
MIN								212	213	235	107	0
AC-FT								14070	14370	14750	9840	2720

11406890 RICHVALE CANAL AT INTAKE, NEAR OROVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12						0	290	285	213	211	194
2	15						0	313	250	219	209	200
3	15						0	343	237	211	212	196
4	7.0						0	354	238	209	239	196
5	0						0	350	238	210	248	201
6	0						0	352	237	207	245	200
7	0						0	369	238	206	246	199
8	0						0	372	241	207	243	201
9	0						0	369	221	206	249	180
10	0						0	373	207	206	245	173
11	0						0	374	208	208	242	134
12	0						0	377	209	213	232	106
13	0						0	377	210	209	225	107
14	0						0	303	208	210	226	104
15	0						0	276	210	208	226	68
16	0						0	275	206	209	227	51
17	0						63	274	206	208	224	50
18	0						100	275	210	209	222	25
19	0						102	274	214	211	206	15
20	0						101	274	214	212	199	15
21	0						101	274	210	209	198	15
22	0						103	275	207	211	198	14
23	0						104	275	212	220	197	14
24	0						168	275	208	220	191	14
25	0						203	277	212	223	186	14
26	0						202	276	211	221	195	14
27	0						202	275	211	221	204	14
28	0						201	271	211	213	207	13
29	0				---		224	275	216	211	207	13
30	0				---		271	281	215	212	201	12
31	0	---			---		---	284	---	211	199	---
TOTAL	49.0	0	0	0	0	0	2145	9602	6600	6563	6759	2752
MEAN	1.58	0	0	0	0	0	71.5	310	220	212	218	91.7
MAX	15	0	0	0	0	0	271	377	285	223	249	201
MIN	0	0	0	0	0	0	0	271	206	206	186	12
AC-FT	97	0	0	0	0	0	4250	19050	13090	13020	13410	5460

WTR YR 1969 TOTAL 34470.0 MEAN 94.4 MAX 377 MIN 0 AC-FT 68370

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12						0	247	207	206	220	120
2	12						0	250	204	209	225	121
3	12						0	253	206	210	227	120
4	13						0	255	209	210	227	121
5	12						0	255	214	211	223	122
6	12						0	223	212	203	221	120
7	12						0	209	211	199	220	120
8	12						0	213	213	198	221	119
9	13						0	211	213	199	224	119
10	6.0						0	209	211	197	222	119
11	0						0	207	213	197	212	119
12	0						94	209	214	197	207	120
13	0						153	215	215	197	213	120
14	0						154	214	216	204	216	120
15	0						184	215	213	212	211	120
16	0						234	216	212	211	211	95
17	0						252	217	211	209	212	83
18	0						263	215	215	209	211	83
19	0						252	214	214	210	210	84
20	0						251	213	208	211	209	83
21	0						250	215	207	212	209	82
22	0						250	215	207	210	160	84
23	0						250	216	209	208	124	84
24	0						251	217	212	207	122	85
25	0						250	211	208	207	120	54
26	0						250	210	205	208	121	31
27	0						249	208	205	209	121	31
28	0						247	208	206	218	120	29
29	0				---		246	207	206	223	120	27
30	0				---		247	206	206	221	122	27
31	0	---			---		---	207	---	220	121	---
TOTAL	116.0	0	0	0	0	0	4327	6780	6302	6442	5802	2762
MEAN	3.74	0	0	0	0	0	144	219	210	208	187	92.1
MAX	13	0	0	0	0	0	263	255	216	223	227	122
MIN	0	0	0	0	0	0	0	206	204	197	120	27
AC-FT	230	0	0	0	0	0	8580	13450	12500	12780	11510	5480

CAL YR 1969 TOTAL 34537.00 MEAN 94.6 MAX 377 MIN 0 AC-FT 68500
WTR YR 1970 TOTAL 32531.00 MEAN 89.1 MAX 263 MIN 0 AC-FT 64530

11406900 PACIFIC GAS AND ELECTRIC CO. LATERAL AT INTAKE, NEAR OROVILLE, CALIF.

LOCATION.--Lat 39°29'22", long 121°41'12", in SW¼NW¼ sec.19, T.19 N., R.3 E., Butte County, on right bank 82 ft downstream from axis of Thermalito Afterbay Dam and 7.2 miles west of Oroville.

PERIOD OF RECORD.--April 1968 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 113.47 ft above mean sea level (levels by California Department of Water Resources).

EXTREMES.--Period of record: Maximum daily discharge, 32 cfs Apr. 24, 1970; no flow for several months in each year.

REMARKS.--Flow regulated at outlet works from Thermalito afterbay; water is used for irrigation. Records include diversions from Thermalito afterbay into Pacific Gas & Electric Co. lateral via Duncan lateral siphon except for water year 1968. Monthly diversions via Duncan lateral siphon to Pacific Gas & Electric Co. lateral for April to September 1968 are 335, 214, 266, 269, 253, and 253 acre-ft, respectively.

COOPERATION.--Records collected by California Department of Water Resources under general supervision of the Geological Survey in connection with a Federal Power Commission project.

DISCHARGE, IN CUBIC FEET PER SECOND, APRIL TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								10	9.0	10	11	4.2
2								10	9.0	10	11	4.2
3								10	9.0	11	11	4.2
4								10	9.0	10	11	4.3
5								10	9.0	9.9	11	4.3
6								10	9.2	9.9	11	3.8
7								10	9.4	10	11	1.7
8								10	9.4	10	11	.30
9								9.9	9.4	9.9	11	0
10								9.9	9.4	10	11	0
11								9.9	9.4	11	11	0
12								9.9	9.4	11	8.8	0
13								7.8	9.4	11	8.6	0
14								6.6	9.4	11	8.8	0
15								6.6	9.4	11	8.8	0
16								7.0	9.4	11	8.8	0
17								7.4	9.4	11	8.8	0
18								8.8	9.2	11	7.8	0
19								9.7	9.2	11	6.4	0
20							10	9.7	9.4	12	6.3	0
21							19	8.0	9.4	12	6.3	0
22							20	7.0	9.9	12	6.3	0
23							20	7.0	10	12	6.3	0
24							23	7.0	10	12	6.3	0
25							26	7.0	10	12	6.3	0
26							27	7.0	10	12	6.3	0
27							27	7.0	10	12	6.3	0
28							27	8.2	10	12	6.1	0
29							23	9.0	10	11	5.5	0
30							13	9.0	10	11	4.8	0
31							---	9.0	---	11	4.7	---
TOTAL								268.4	284.7	340.7	259.3	27.00
MEAN								8.66	9.49	11.0	8.36	.90
MAX								10	10	12	11	4.3
MIN								6.6	9.0	9.9	4.7	0
AC-FT								532	565	676	514	54

11406900 PACIFIC GAS AND ELECTRIC CO. LATERAL AT INTAKE, NEAR OROVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	20	10	12	12	8.4
2							0	23	10	12	13	7.4
3							0	22	10	12	12	7.8
4							0	23	11	12	12	7.0
5							0	26	12	12	14	5.9
6							0	29	12	11	14	5.9
7							0	29	11	11	14	5.9
8							0	25	11	11	14	4.7
9							0	22	11	11	14	3.5
10							0	22	11	11	12	3.7
11							0	22	11	12	12	1.7
12							0	22	11	12	12	.20
13							0	20	11	11	12	.20
14							0	18	11	11	12	.20
15							0	16	11	11	13	.10
16							0	14	10	12	12	0
17							0	13	10	12	12	0
18							0	12	10	12	12	0
19							0	13	11	12	12	0
20							0	14	11	12	12	0
21							0	12	11	12	12	0
22							0	13	11	12	12	0
23							0	12	11	12	12	0
24							0	13	11	12	11	0
25							0	12	11	12	10	0
26							0	13	11	12	11	0
27							6.7	12	12	11	11	0
28							10	12	11	11	11	0
29					---		10	11	12	11	12	0
30					---		10	10	11	11	12	0
31		---			---		---	10	---	12	12	---
TOTAL	0	0	0	0	0	0	36.7	535	328	360	378	62.60
MEAN	0	0	0	0	0	0	1.22	17.3	10.9	11.6	12.2	2.09
MAX	0	0	0	0	0	0	10	29	12	12	14	8.4
MIN	0	0	0	0	0	0	0	10	10	11	10	0
AC-FT	0	0	0	0	0	0	73	1060	651	714	750	124

WTR YR 1969 TOTAL 1700.30 MEAN 4.66 MAX 29 MIN 0 AC-FT 3370

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	14	8.2	9.3	10	8.8
2							0	9.2	8.2	8.2	8.8	8.8
3							0	10	8.2	8.2	8.8	8.8
4							0	11	9.7	8.1	8.8	8.8
5							0	11	11	8.2	8.8	6.6
6							0	11	11	8.2	8.8	5.8
7							0	11	11	8.2	8.8	6.3
8							0	11	9.1	8.2	8.8	6.4
9							0	10	9.9	8.2	8.8	6.4
10							0	9.9	9.9	8.2	8.8	3.5
11							0	9.7	10	8.2	8.8	.90
12							0	9.8	10	8.2	8.9	.90
13							0	9.8	10	9.9	11	.90
14							0	9.6	10	11	12	.90
15							.90	9.8	9.9	11	12	.50
16							.40	9.8	12	9.7	12	.20
17							.40	9.5	13	8.2	10	.10
18							.40	8.9	12	8.2	8.8	.10
19							.30	7.5	10	9.1	8.8	0
20							12	7.0	10	9.7	8.8	0
21							22	6.2	12	9.6	8.8	0
22							24	6.3	12	9.6	8.8	0
23							27	7.0	12	9.7	8.8	0
24							32	8.1	11	9.7	8.8	0
25							29	10	10	9.6	8.8	0
26							24	12	9.9	9.6	8.8	0
27							26	12	10	9.6	8.8	0
28							25	11	10	11	8.9	0
29					---		19	9.4	10	12	8.8	0
30					---		18	9.4	10	12	8.8	.80
31		---			---		---	8.8	---	12	8.9	---
TOTAL	0	0	0	0	0	0	260.40	299.7	310.0	290.6	287.3	75.50
MEAN	0	0	0	0	0	0	8.68	9.67	10.3	9.37	9.27	2.52
MAX	0	0	0	0	0	0	32	14	13	12	12	8.8
MIN	0	0	0	0	0	0	0	6.2	8.2	8.1	8.8	0
AC-FT	0	0	0	0	0	0	517	594	615	576	570	150

CAL YR 1969 TOTAL 1700.30 MEAN 4.66 MAX 29 MIN 0 AC-FT 3370
WTR YR 1970 TOTAL 1523.50 MEAN 4.17 MAX 32 MIN 0 AC-FT 3020

11406910 SUTTER BUTTE CANAL AT INTAKE, NEAR OROVILLE, CALIF.

LOCATION.--Lat 39°27'01", long 121°39'27", in T.18 N., R.3 E., in NW corner of Boga Fernandez Grant, Butte County, on left bank 675 ft downstream from Thermalito Afterbay Dam and 6.8 miles southwest of Oroville.

PERIOD OF RECORD.--November 1967 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 109.97 ft above mean sea level (levels by California Department of Water Resources). Prior to May 1, 1970, at datum 9.50 ft lower.

EXTREMES.--Period of record: Maximum daily discharge, 2,110 cfs Apr. 22-24, 1968; no flow for several months in each year.

REMARKS.--No gage-height record Nov. 17, 1967, to Feb. 20, 1968. Water is diverted from Thermalito afterbay and is used for irrigation. See schematic diagram showing diversions and storage from Feather River at Lake Oroville elsewhere in this report.

COOPERATION.--Records collected by California Department of Water Resources under general supervision of Geological Survey in connection with a Federal Power Commission project.

DISCHARGE, IN CUBIC FEET PER SECOND, NOVEMBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			35	20	8.6	16	215	1940	1430	1560	1450	1130
2			35	20	0	13	247	1990	1440	1560	1460	1130
3			35	20	0	49	234	2000	1460	1580	1460	1150
4			35	20	0	35	228	2040	1490	1590	1450	1150
5			35	20	0	23	222	2000	1470	1600	1450	1160
6			35	20	0	20	266	1960	1480	1620	1430	1120
7			35	6.9	0	21	308	1880	1500	1620	1420	1090
8			35	0	4.6	12	401	1850	1500	1600	1410	1090
9			35	0	15	1.2	562	1870	1500	1590	1400	1040
10			35	0	15	1.2	738	1700	1500	1580	1400	964
11			29	0	15	1.0	917	1530	1500	1580	1400	938
12			20	0	15	111	1070	1520	1500	1590	1410	891
13			20	0	15	148	1250	1450	1500	1590	1400	816
14			20	0	15	140	1340	1400	1500	1580	1390	753
15			20	0	15	143	1360	1370	1500	1550	1380	743
16			20	0	15	143	1480	1370	1480	1520	1360	710
17		2.5	20	0	15	143	1690	1340	1470	1500	1350	668
18		15	20	0	15	140	1880	1350	1510	1500	1350	659
19		15	20	0	15	143	2060	1340	1540	1510	1340	632
20		15	20	0	7.5	148	2050	1340	1550	1500	1300	562
21		15	20	0	0	145	2090	1340	1560	1500	1260	532
22		15	20	0	0	148	2110	1350	1560	1460	1240	532
23		15	20	0	0	150	2110	1370	1560	1480	1170	532
24		15	20	0	0	150	2110	1370	1560	1510	1120	532
25		15	20	0	0	148	2100	1370	1550	1510	1100	528
26		15	20	7.9	29	145	2040	1360	1560	1510	1100	524
27		20	20	18	37	143	1950	1360	1560	1510	1090	532
28		35	20	18	27	138	1900	1360	1560	1520	1080	528
29		35	20	18	20	138	1920	1360	1580	1510	1110	541
30		35	20	18	---	138	1970	1370	1580	1480	1130	536
31		---	20	18	---	138	---	1400	---	1440	1130	---
TOTAL			779	224.8	298.7	3032.4	38818	48250	45450	47750	40540	23713
MEAN			25.1	7.25	10.3	97.8	1294	1556	1515	1540	1308	790
MAX			35	20	37	150	2110	2040	1580	1620	1460	1160
MIN			20	0	0	1.0	215	1340	1430	1440	1080	524
AC-FT			1550	446	592	6010	77000	95700	90150	94710	80410	47030

11406910 SUTTER BUTTE CANAL AT INTAKE, NEAR OROVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	499	82	74			0	45	1660	1570	1550	1520	1320
2	483	84	74			0	13	1680	1580	1550	1510	1310
3	487	82	74			0	13	1430	1590	1550	1520	1260
4	487	84	74			0	13	1750	1590	1540	1520	1200
5	487	84	74			0	14	1770	1580	1510	1510	1160
6	471	85	74			0	14	1770	1600	1500	1490	1140
7	479	80	77			0	17	1730	1610	1500	1490	1130
8	483	76	76			0	22	1730	1620	1540	1480	1040
9	483	77	74			0	23	1770	1580	1600	1470	948
10	487	76	72			0	23	1820	1570	1620	1480	917
11	487	76	47			0	14	1840	1570	1600	1480	896
12	487	76	0			0	.90	1830	1570	1590	1440	886
13	491	76	0			0	0	1790	1560	1590	1420	886
14	479	76	0			0	145	1800	1560	1590	1430	886
15	451	76	0			0	256	1780	1560	1590	1420	826
16	447	76	0			0	329	1750	1560	1590	1420	724
17	447	74	0			0	475	1730	1550	1590	1420	696
18	447	74	0			0	619	1730	1560	1590	1420	623
19	447	74	0			0	710	1660	1560	1590	1420	619
20	447	74	0			0	748	1640	1560	1590	1400	601
21	451	74	0			0	816	1620	1560	1560	1400	592
22	459	76	0			0	1030	1620	1560	1550	1400	592
23	459	76	0			0	1130	1620	1560	1530	1400	532
24	459	74	0			0	1140	1610	1560	1540	1400	507
25	447	76	0			0	1200	1610	1580	1550	1370	507
26	455	76	0			0	1260	1600	1580	1540	1370	507
27	447	74	0			0	1300	1560	1580	1550	1370	507
28	455	74	0			108	1380	1560	1580	1550	1370	507
29	463	74	0		---	105	1500	1560	1580	1550	1360	479
30	187	76	0		---	105	1620	1560	1560	1550	1330	471
31	56	---	0		---	105	---	1570	---	1520	1320	---
TOTAL	13814	2312	790	0	0	423	15869.90	52150	47200	48360	44350	24269
MEAN	446	77.1	25.5	0	0	13.6	529	1682	1573	1560	1431	809
MAX	499	85	77	0	0	108	1620	1840	1620	1620	1520	1320
MIN	56	74	0	0	0	0	0	1430	1550	1500	1320	471
AC-FT	27400	4590	1570	0	0	839	31480	103400	93620	95920	87970	48140

CAL YR 1968 TOTAL 264992.90 MEAN 724 MAX 2110 MIN 0 AC-FT 525600
WTR YR 1969 TOTAL 249537.90 MEAN 684 MAX 1840 MIN 0 AC-FT 495000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	432	109	2.4			0	437	1640	1230	1350	1450	1260
2	405	5.8	0			0	556	1600	1240	1340	1450	1280
3	397	45	0			0	662	1600	1260	1340	1430	1290
4	397	64	0			0	632	1550	1320	1340	1420	1290
5	397	59	0			0	608	1530	1360	1340	1400	1290
6	401	56	0			0	612	1520	1370	1340	1390	1290
7	397	56	0			0	639	1490	1350	1350	1380	1260
8	401	56	0			0	678	1420	1340	1390	1400	1250
9	397	56	0			0	673	1400	1340	1420	1410	1220
10	397	56	0			0	647	1400	1340	1430	1370	1140
11	397	56	0			0	631	1340	1310	1440	1350	1090
12	397	56	0			0	643	1260	1290	1430	1350	1080
13	401	56	0			0	758	1240	1290	1430	1360	1080
14	401	58	0			0	968	1230	1290	1440	1350	982
15	401	40	0			0	1070	1250	1270	1430	1350	811
16	401	25	0			0	1090	1260	1300	1420	1350	744
17	401	12	0			0	1120	1260	1310	1420	1350	630
18	401	5.0	0			0	1240	1280	1320	1410	1350	598
19	397	5.4	0			0	1350	1250	1330	1410	1350	599
20	401	5.4	0			47	1370	1250	1320	1410	1350	598
21	372	5.4	0			103	1380	1260	1330	1410	1340	598
22	361	5.0	0			103	1450	1220	1320	1410	1340	570
23	315	4.7	0			103	1530	1220	1310	1400	1340	559
24	298	4.7	0			102	1620	1210	1340	1410	1320	560
25	298	5.0	0			102	1730	1190	1360	1460	1320	559
26	298	5.4	0			102	1760	1190	1370	1450	1320	560
27	298	5.8	0			152	1760	1190	1360	1440	1290	558
28	298	5.8	0			222	1660	1220	1360	1450	1300	559
29	298	5.8	0		---	266	1630	1240	1370	1450	1290	559
30	298	5.8	0		---	357	1640	1240	1360	1450	1290	559
31	250	---	0		---	406	---	1240	---	1450	1270	---
TOTAL	11403	935.0	2.4	0	0	2065	32544	41190	39660	43660	42030	26423
MEAN	368	31.2	.077	0	0	66.6	1085	1329	1322	1408	1356	881
MAX	432	109	2.4	0	0	406	1760	1640	1370	1460	1450	1290
MIN	250	4.7	0	0	0	0	437	1190	1230	1340	1270	558
AC-FT	22620	1850	4.8	0	0	4100	64550	81700	78670	86600	83370	52410

CAL YR 1969 TOTAL 244962.30 MEAN 671 MAX 1840 MIN 0 AC-FT 485900
WTR YR 1970 TOTAL 239912.40 MEAN 657 MAX 1760 MIN 0 AC-FT 475900

11406920 THERMALITO AFTERBAY RELEASE TO FEATHER RIVER NEAR OROVILLE, CALIF.

LOCATION.--Lat 39°27'23", long 121°38'10", in NW¼SE¼ sec.33, T.19 N., R.3 E., Butte County, on left bank of outlet channel, 955 ft downstream from centerline of Thermalito Afterbay Dam and 5.7 miles southwest of Oroville.

PERIOD OF RECORD.--November 1967 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 113.47 ft above mean sea level (levels by California Department of Water Resources). Prior to May 1, 1970, at datum 13.00 ft lower.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for November 1967 to September 1970 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1968	Feb. 13, 1968	5,420	17.88	Long periods	0
1969	Jan. 26, 1969	14,600	21.28	Oct. 6, Dec. 28, 30, 31, 1968	387
1970	Jan. 28, 1970	21,600	23.30	May 29, 1970	1,040

Period of record: Maximum discharge, 21,600 cfs Jan. 28, 1970 (gage height, 23.30 ft); no flow for long periods in 1968.

REMARKS.--Backwater from Feather River Jan. 14-30, 1970. Flow regulated by gates at Thermalito afterbay outlet 955 ft upstream. See schematic diagram showing diversions and storage from Feather River at Lake Oroville elsewhere in this report. Water-quality records for the water years 1968-70 are published in reports of the Geological Survey.

COOPERATION.--Records collected by California Department of Water Resources under general supervision of Geological Survey in connection with a Federal Power Commission project.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	400	400	0	394	1700	2030	4.0	0	406
2			0	400	400	0	415	1910	1930	0	0	406
3			0	400	394	0	425	2940	1840	0	0	406
4			0	406	387	0	405	3250	1680	0	0	400
5			0	406	387	0	395	3270	1460	0	0	400
6			0	400	381	115	397	2840	834	0	0	394
7			0	400	394	394	397	2020	402	0	0	394
8			0	400	400	394	396	1820	400	0	0	394
9			0	400	400	387	400	1050	400	0	0	394
10			0	400	400	387	396	407	400	0	0	394
11			0	400	400	381	394	405	399	0	0	394
12			0	400	416	381	395	397	400	0	0	400
13			0	400	3500	387	391	1140	401	0	0	400
14			0	400	983	389	400	2140	403	0	0	400
15			0	400	222	401	400	722	740	0	0	394
16		0	0	394	82	395	400	1250	896	0	0	394
17		0	0	394	53	395	400	2400	898	0	0	394
18		0	0	394	48	382	400	2430	900	0	0	394
19		0	0	394	31	386	400	2350	1050	0	180	394
20		0	0	394	78	405	400	1690	1300	0	172	394
21		0	0	394	56	410	400	1010	1310	0	172	400
22		0	0	394	82	416	608	2200	1700	0	170	394
23		0	0	394	29	398	897	2480	1700	0	170	394
24		0	0	400	34	92	887	2690	1560	0	170	394
25		0	0	400	24	282	881	2740	948	0	189	394
26		0	96	400	9.6	420	879	2800	535	0	400	394
27		0	190	400	0	406	900	2860	393	0	400	413
28		0	272	400	0	385	909	2850	387	0	387	400
29		0	400	400	0	395	1090	2550	381	0	387	400
30		0	400	400	---	395	1520	2380	352	0	387	413
31		------	400	400	---	384	---	2210	---	0	406	---
TOTAL			1758	12364	9990.6	9562	16971	62901	28029	4.0	3590	11942
MEAN			56.7	399	345	308	566	2029	934	.13	116	398
MAX			400	406	3500	420	1520	3270	2030	4.0	406	413
MIN			0	394	0	0	391	397	352	0	0	394
AC-FT			3490	24520	19820	18970	33660	124800	55600	7.9	7120	23690

11406920 THERMALITO AFTERBAY RELEASE TO FEATHER RIVER NEAR OROVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	406	613	394	394	12200	9050	4630	9720	5640	598	3600	6060
2	406	620	394	394	10200	9130	5300	9510	4490	598	3580	6150
3	413	613	394	394	9420	9100	11100	7600	3610	598	3540	6170
4	413	620	394	400	8890	9590	13300	7650	3560	590	4140	6170
5	406	628	394	400	8870	9450	13700	7700	2610	816	5300	6150
6	387	605	394	394	9910	8890	13800	7630	2610	1580	5500	6130
7	406	582	406	394	10300	8690	13600	7650	1550	1590	5700	6060
8	406	567	413	407	9780	7820	13700	7580	623	1600	6100	6100
9	406	589	413	407	10700	7020	13700	7550	606	1880	5750	6100
10	406	605	426	407	12500	6040	13700	7530	606	2110	5150	6130
11	406	605	432	414	13000	4670	13600	7680	598	2100	5750	6100
12	406	613	439	414	13100	3940	13500	7630	598	2080	6130	6100
13	413	613	446	3780	12800	3790	13400	7680	598	2080	6100	6100
14	426	605	419	1580	12900	3520	13700	9670	590	2110	6100	6080
15	620	597	413	400	13200	3510	13700	10700	590	2110	6100	6130
16	613	413	400	407	13000	3920	13600	10700	582	2110	6060	6150
17	605	413	400	421	13000	4530	13700	10600	590	2110	6060	6150
18	597	406	400	436	5840	4770	13300	10600	590	2100	6150	6170
19	597	406	406	443	4300	5900	13700	10600	590	2080	6170	6150
20	597	406	406	1380	5120	7550	13100	10600	882	2080	6150	6100
21	605	413	406	9120	7500	9130	13700	10600	1080	2100	6130	6080
22	620	413	406	13400	10900	10300	13800	9750	1080	2120	6130	6130
23	620	406	394	14100	11300	10200	14000	8450	1080	2950	6100	6100
24	605	406	394	14200	10000	7800	13700	7630	1090	3450	6080	6100
25	589	406	394	14100	8790	5280	13700	7630	992	3610	6150	6100
26	597	400	394	14400	7530	5120	13700	6490	606	3600	6170	6130
27	582	394	394	14100	5750	5030	13600	5600	598	3580	6170	5600
28	613	394	387	14100	6720	4650	13500	5560	606	3600	6170	4610
29	620	394	394	13900	---	4590	11600	5580	598	3610	6170	3630
30	636	400	387	13700	---	4610	11000	5620	590	3610	6130	2710
31	605	---	387	13600	---	4610	---	5660	---	3600	6060	---
TOTAL	16027	15145	12520	162386	277520	202200	384130	255150	40433	68750	176590	175640
MEAN	517	505	404	5238	9911	6523	12800	8231	1348	2218	5696	5855
MAX	636	628	446	14400	13200	10300	14000	10700	5640	3610	6170	6170
MIN	387	394	387	394	4300	3510	4630	5560	582	590	3540	2710
AC-FT	31790	30040	24830	322100	550500	401100	761900	506100	80200	136400	350300	348400

CAL YR 1968 TOTAL 199045.60 MEAN 544 MAX 3500 MIN .00 AC-FT 394800
WTR YR 1969 TOTAL 1786491.00 MEAN 4894 MAX 14400 MIN 387 AC-FT 3544000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2540	2520	2850	15400	17500	9890	2400	1320	1060	1350	2260	3900
2	2550	2490	2920	14100	14900	13000	2410	1330	1080	1330	2430	3880
3	2570	2580	2920	12900	10400	13000	2340	1340	1270	1350	2740	3890
4	2540	2610	2920	11200	7700	13100	2260	1340	1570	1320	3180	3910
5	2540	2600	2920	6860	7780	13100	2250	1370	1680	1310	3260	3910
6	2570	2600	2900	3300	7780	13100	2210	1380	1500	1330	3360	3890
7	2570	2570	3180	3370	7780	13100	2140	1250	1400	1330	3370	3870
8	2570	2540	3320	3300	7780	13100	2110	1080	1420	1360	3350	3860
9	2570	2520	3390	3300	7810	13400	2110	1120	1390	1260	3350	3860
10	2570	2570	3550	5930	7760	14000	2110	1110	1350	1350	3450	3860
11	2550	2570	4260	10100	7980	14000	2110	1150	1340	1330	3580	3870
12	2720	2570	4720	11800	8320	14000	2110	1240	1340	1320	3630	3870
13	2490	2570	5240	16000	8930	12300	1990	1170	1320	1340	3620	3900
14	2490	2570	5410	18400	10900	11400	1920	1160	1320	1350	3690	3900
15	2520	2540	5460	17500	12200	11400	1910	1170	1340	1350	3740	3790
16	2540	2930	5460	17500	12600	9180	1910	1130	1340	1370	3680	3910
17	2520	2980	5480	18900	13300	8020	1810	1100	1340	1350	3720	3980
18	2460	2980	5430	18000	13200	7970	1590	1200	1350	1340	3690	4060
19	2480	2980	5410	18300	13200	7240	1490	1180	1350	1300	3720	4060
20	2510	2980	5410	18800	13200	2610	1510	1120	1320	1340	3700	4060
21	2550	2980	5410	18300	13200	1990	1510	1120	1320	1350	3710	4080
22	2550	2960	5050	17900	13200	1810	1510	1130	1340	1360	3690	4060
23	2570	2960	4480	16500	13200	1570	1510	1080	1360	1350	3680	4090
24	2550	2960	11900	15800	13200	1350	1380	1110	1340	1360	3720	4070
25	2510	2900	18100	17800	11300	1310	1300	1150	1350	1320	3790	4050
26	2540	2770	18700	20700	8010	1370	1300	1130	1350	1320	3920	4130
27	2570	2740	19500	20800	7980	1630	1300	1100	1350	1420	3960	3980
28	2570	2770	19500	21200	8010	1830	1300	1050	1340	1640	3940	3650
29	2550	2750	19800	19000	---	2050	1300	1040	1370	1840	3940	3160
30	2550	2740	20700	18200	---	2240	1290	1060	1360	1930	3950	2750
31	2540	---	17500	18100	---	2420	---	1060	---	2080	3960	---
TOTAL	78920	81800	243790	449260	299120	246480	54390	36290	40560	43650	109780	116250
MEAN	2546	2727	7864	14490	10680	7951	1813	1171	1352	1408	3541	3875
MAX	2720	2980	20700	21200	17500	14000	2410	1380	1680	2080	3960	4130
MIN	2460	2490	2850	3300	7700	1310	1290	1040	1060	1260	2260	2750
AC-FT	156500	162300	483600	891100	593300	488900	107900	71980	80450	86580	217700	230600

CAL YR 1969 TOTAL 2147309 MEAN 5883 MAX 20700 MIN 394 AC-FT 4259000
WTR YR 1970 TOTAL 1800290 MEAN 4932 MAX 21200 MIN 1040 AC-FT 3571000

11407000 FEATHER RIVER AT OROVILLE, CALIF.

LOCATION.--Lat 39°31'13", long 121°32'48", in SW¼NE¼ sec.8, T.19 N., R.4 E., Butte County, on right bank 300 ft upstream from fish barrier dam on Feather River and 0.8 mile (revised) northeast of Oroville Post Office.

DRAINAGE AREA.--3,624 sq mi.

PERIOD OF RECORD.--October 1901 to September 1970. October 1934 to September 1960 published as "near Oroville." Records since October 1967 equivalent to earlier records if diversions out of Thermalito afterbay are added to flow past station. Monthly discharge only for some periods, published in WSP 1315-A.

GAGE.--Water-stage recorder. Datum of gage is 148.97 ft above mean sea level (levels by California Department of Water Resources). See WSP 1931 for history of changes prior to Oct. 1, 1964.

AVERAGE DISCHARGE.--69 years, 5,895 cfs (4,271,000 acre-ft per year), adjusted for diversions into and out of, change in storage of, and evaporation from Lake Oroville, Thermalito diversion pool, Thermalito forebay, and Thermalito afterbay.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (30,000 cfs), water years 1966-70

		Creek only			Combined	
Wtr yr	Date	Time	Disch.	G.H.	Date	Disch.
1966	Jan. 5, 1966	0900	*15,300	6.50	-	-
1967	Jan. 22, 1967	0300	*53,300	14.48	-	-
	Jan. 29, 1967	2000	52,600	14.47	-	-
	Mar. 17, 1967	0500	41,800	12.50	-	-
1968	Oct. 3, 1967	-	6,490	3.70	Oct. 3, 1967	6,490
1969	Jan. 21, 22, 1968	-	51,000	14.19	Jan. 21, 22, 1969	51,100
1970	Jan. 25, 1970	-	56,300	15.33	Jan. 25, 1970	56,400

NOTE.--Peak discharges above base discontinued upon beginning of storage in Lake Oroville Nov. 14, 1967.

Annual minimum daily discharge, water years 1966-70

	Creek only		Combined	
Wtr yr	Date	Disch.	Date	Disch.
1966	Sept.30, 1966	1,140	-	-
1967	Sept.30, 1967	704	-	-
1968	Apr. 18, June 9, 10, 13, 1968	314	Apr. 18, 1968	354
1969	Oct. 23, 24, 1968	304	May 28, 1969	353
1970	Feb. 8, 1970	294	Oct. 18, 1969	370

Period of record (river only): Maximum discharge observed, 230,000 cfs Mar. 19, 1907 (elevation, 167.5 ft above mean sea level); minimum daily, 291 cfs Nov. 9, 10, 1970. (Combined): Maximum discharge, 56,400 cfs Jan. 25, 1970; minimum daily, 353 cfs May 28, 1969.

Flood in February 1881 reached a stage of 25 ft, from floodmarks, site and datum in use, Dec. 16, 1912, to Sept. 30, 1934.

REMARKS.--Since Nov. 14, 1967, flow regulated by Lake Oroville (see station 11406800) and other powerplants and reservoirs above station. Several diversions above station for power and irrigation. Feather River Fish Hatchery diverts up to 120 cfs at Thermalito diversion dam 0.4 mile above gage. Diverted flow returns to Feather River approximately 0.3 mile below gage. Daily figures given herein are combined figures of river flow and diversion to fish hatchery. See REMARKS for upstream stations and schematic diagrams showing diversions from Feather River at Lake Oroville and for South Fork Feather River basin elsewhere in this report. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

COOPERATION.--Records collected by California Department of Water Resources under general supervision of the Geological Survey in connection with a Federal Power Commission project.

REVISIONS (WATER YEARS).--WSP 843: 1907(M), 1909(M), 1914-15(M), 1919(M), 1927-28(M). WSP 881: 1913-28 (yearly summaries only). WSP 1515: 1906-8. WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,520	3,470	3,540	4,060	3,430	3,250	9,190	6,090	2,530	2,610	2,670	1,650
2	3,280	3,580	3,500	3,780	3,540	3,210	10,400	6,000	2,470	2,630	2,630	1,780
3	3,080	3,610	3,470	3,690	3,230	3,100	10,000	6,030	2,250	2,610	2,530	1,630
4	3,060	3,430	3,470	4,670	3,300	3,010	9,320	6,140	2,350	2,610	2,470	1,550
5	3,250	3,320	3,470	13,000	3,890	2,990	8,930	6,530	2,310	2,770	2,550	1,550
6	3,280	3,430	3,470	9,970	4,040	2,990	9,220	6,670	2,310	2,830	2,470	1,520
7	3,140	3,430	3,450	7,270	3,870	3,060	9,320	6,650	2,450	2,770	2,470	1,480
8	3,190	3,390	3,430	6,450	3,540	3,250	9,250	6,560	2,390	2,770	2,510	1,440
9	3,170	3,080	3,430	5,810	3,360	3,470	9,090	6,530	2,210	2,770	2,550	1,320
10	3,100	3,100	3,430	5,140	3,250	4,710	13,400	6,620	2,210	2,790	2,590	1,320
11	2,950	3,140	3,430	4,660	3,120	5,890	13,400	7,450	2,230	2,770	2,590	1,320
12	2,690	3,190	3,520	4,330	3,010	6,370	12,300	6,910	2,190	2,770	2,590	1,300
13	2,690	3,320	3,500	4,160	2,990	8,340	10,500	6,420	2,350	2,790	2,610	1,260
14	2,690	4,210	3,470	4,010	2,930	10,300	9,350	6,030	2,630	2,770	2,610	1,320
15	3,280	4,590	3,410	3,780	2,890	9,380	9,290	5,690	2,410	2,770	2,610	1,430
16	3,540	4,060	3,300	3,720	2,850	8,710	9,130	5,010	2,250	2,770	2,410	1,440
17	3,650	3,970	3,360	3,670	2,830	7,120	9,540	4,860	2,330	2,750	2,190	1,480
18	3,630	9,330	3,320	3,630	2,790	6,310	9,640	4,570	2,390	2,730	2,120	1,480
19	3,720	7,600	3,250	3,630	2,950	5,690	8,810	4,350	2,370	2,730	2,010	1,440
20	3,830	6,670	3,250	3,650	3,190	5,380	7,660	4,330	2,350	2,710	1,990	1,400
21	3,740	5,780	3,230	3,610	3,030	5,090	6,850	4,110	2,330	2,710	1,960	1,400
22	3,630	4,960	3,280	3,520	3,030	4,780	6,560	3,850	2,310	2,690	1,920	1,400
23	3,450	4,520	3,320	3,520	3,170	4,590	6,390	3,540	2,290	2,690	1,870	1,370
24	3,580	5,120	3,410	3,470	3,390	4,400	6,390	3,280	2,270	2,690	1,870	1,320
25	3,520	5,830	4,610	3,450	3,500	4,540	6,620	2,950	2,250	2,690	1,870	1,320
26	3,630	5,580	3,920	3,410	3,650	4,830	7,210	2,810	2,230	2,650	1,850	1,300
27	3,560	5,060	3,610	3,300	3,520	5,400	6,880	3,010	2,150	2,650	1,830	1,260
28	3,610	4,710	3,740	2,710	3,340	6,090	6,670	2,830	2,150	2,670	1,830	1,250
29	3,670	4,350	5,040	2,710	------	6,880	6,530	2,510	2,250	2,670	1,790	1,310
30	3,630	3,760	4,660	3,780	------	8,110	6,230	2,310	2,450	2,690	1,690	1,240
31	3,610	------	4,400	3,470	------	8,680	------	2,410	------	2,670	1,650	------
TOTAL	104,370	133,590	111,690	140,030	91,630	169,920	264,070	153,050	69,660	84,190	69,300	42,280
MEAN	3,367	4,453	3,603	4,517	3,273	5,481	8,802	4,937	2,322	2,716	2,235	1,409
MAX	3,830	9,330	5,040	13,000	4,040	10,300	13,400	7,450	2,630	2,830	2,670	1,780
MIN	2,690	3,080	3,230	2,710	2,790	2,990	6,230	2,310	2,150	2,610	1,650	1,240
AC-FT	207,000	265,000	221,500	277,700	181,700	337,000	523,800	303,600	138,200	167,000	137,500	83,860

CAL YR 1965 TOTAL 2,544,140 MEAN 6,970 MAX 61,000 MIN 2,550 AC-FT 5,046,000
WTR YR 1966 TOTAL 1,433,780 MEAN 3,928 MAX 13,400 MIN 1,240 AC-FT 2,844,000

11407000 FEATHER RIVER AT OROVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,260	1,020	9,020	4,880	31,700	6,450	10,700	7,990	14,200	7,210	3,970	3,170
2	1,250	1,260	14,300	4,640	20,200	6,390	9,860	8,080	12,900	7,060	3,740	3,210
3	1,290	1,310	17,800	4,570	15,500	6,420	9,350	8,170	11,900	6,790	3,830	3,190
4	1,280	1,230	11,800	4,640	12,800	6,000	9,000	8,490	12,200	6,230	3,580	2,950
5	1,030	1,330	22,700	4,470	11,400	5,950	9,410	8,840	12,700	6,110	3,410	2,950
6	1,040	1,230	16,800	4,400	10,400	5,810	14,200	8,810	13,000	5,970	3,060	2,950
7	1,140	1,760	11,400	4,640	9,350	5,830	12,100	10,500	12,900	5,720	3,120	3,120
8	1,180	1,360	9,410	4,540	9,220	6,000	10,400	13,600	12,600	4,350	3,410	2,910
9	1,210	1,390	8,170	4,420	8,870	5,950	9,860	17,200	12,600	4,160	3,250	2,810
10	1,250	1,410	7,960	4,300	8,170	6,230	9,730	18,500	12,600	4,540	3,210	2,930
11	1,180	1,420	7,510	4,210	8,420	8,290	9,930	16,200	12,400	5,220	3,190	2,850
12	1,040	1,720	6,820	4,060	8,020	7,870	8,810	14,600	12,300	5,170	3,080	2,610
13	1,060	1,630	6,530	4,300	8,390	7,030	8,840	13,700	12,600	5,090	2,970	2,650
14	1,100	1,560	5,920	4,470	8,970	6,230	9,030	13,400	12,100	4,990	3,030	2,650
15	1,140	2,820	6,000	4,280	8,330	6,140	8,710	14,700	11,800	4,250	3,100	2,730
16	1,150	8,880	4,930	4,350	7,900	21,600	8,110	17,200	11,700	3,800	3,280	2,930
17	1,120	2,990	4,880	4,110	7,570	38,000	8,740	19,600	11,900	4,180	3,390	3,190
18	1,080	1,880	4,160	3,920	7,390	31,300	9,640	21,000	12,000	4,860	3,300	3,210
19	986	2,910	4,230	3,580	7,030	28,300	9,450	21,500	12,400	4,520	3,430	2,970
20	930	14,600	4,730	4,940	7,000	20,900	9,570	22,700	12,200	4,830	3,500	2,850
21	930	8,900	5,610	29,800	6,850	17,500	9,450	24,300	11,400	4,570	3,390	3,140
22	944	5,910	5,480	42,800	6,730	16,400	8,810	25,300	10,900	3,670	3,230	3,170
23	958	4,110	5,320	15,900	6,620	18,700	8,870	25,500	9,990	3,360	3,280	2,910
24	958	3,720	5,270	13,700	6,530	17,900	9,450	26,500	9,220	3,760	3,030	2,790
25	847	2,490	4,730	10,900	6,760	15,300	9,060	25,200	9,220	4,610	2,650	2,970
26	704	1,960	4,370	8,450	6,620	13,400	8,710	22,100	9,090	4,470	2,870	2,950
27	1,060	1,940	4,300	8,930	6,450	11,800	9,130	19,800	8,520	4,160	2,930	2,990
28	1,040	2,540	4,730	15,000	6,310	11,100	8,870	18,500	7,870	4,230	3,190	3,140
29	986	15,500	4,880	43,100	------	10,900	8,550	16,800	7,600	3,610	3,410	2,250
30	1,000	7,840	4,730	48,300	------	10,300	8,610	15,700	7,210	3,280	3,210	1,340
31	1,020	------	4,520	46,800	------	11,600	------	14,600	------	3,500	3,170	------
TOTAL	33,163	108,620	239,010	371,400	269,500	391,590	284,950	519,080	340,020	148,270	101,210	86,480
MEAN	1,070	3,621	7,710	11,980	9,625	12,630	9,498	16,740	11,330	4,783	3,265	2,883
MAX	1,290	15,500	22,700	48,300	31,700	38,000	14,200	26,500	14,200	7,210	3,970	3,210
MIN	704	1,020	4,160	3,580	6,310	5,810	8,110	7,990	7,210	3,280	2,650	1,340
AC-FT	65,780	215,400	474,100	736,700	534,600	776,700	565,200	1,030M	674,400	294,100	200,800	171,500

CAL YR 1966 TOTAL 1,464,923 MEAN 4,013 MAX 22,700 MIN 704 AC-FT 2,906,000
WTR YR 1967 TOTAL 2,893,293 MEAN 7,927 MAX 48,300 MIN 704 AC-FT 5,739,000

† M EXPRESSED IN THOUSANDS.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,180	2,910	948	401	392	750	410	410	410	402	412	412
2	3,560	3,250	948	401	401	810	382	420	410	412	412	412
3	4,970	3,100	935	401	401	810	420	392	410	412	421	422
4	3,980	2,570	935	410	401	822	430	392	392	402	421	431
5	3,560	1,940	922	420	401	786	441	392	387	412	412	402
6	3,470	2,510	909	420	401	580	420	392	402	402	412	402
7	3,620	2,890	909	420	401	420	401	401	402	412	412	402
8	3,230	1,570	909	430	392	392	401	382	393	422	412	402
9	3,070	1,190	909	401	392	392	401	392	384	412	412	393
10	3,140	1,190	909	420	401	401	401	392	384	412	412	402
11	2,490	1,180	896	410	410	420	401	401	393	412	412	402
12	2,100	1,750	896	410	420	410	410	410	393	407	402	412
13	2,160	2,380	896	420	430	410	410	483	384	412	402	422
14	2,950	1,480	890	401	494	382	401	401	412	412	402	431
15	2,910	1,140	896	401	774	401	401	392	402	412	392	431
16	2,630	970	909	401	810	420	392	392	402	412	392	422
17	2,950	942	909	410	786	392	363	401	412	412	412	431
18	2,730	956	922	401	810	401	354	401	412	412	412	431
19	2,710	970	909	392	822	372	382	392	402	412	412	431
20	2,630	970	909	392	822	420	401	392	393	412	412	431
21	2,140	956	909	410	834	401	410	392	410	412	397	422
22	2,120	956	834	410	822	382	401	401	412	412	402	412
23	2,290	970	810	410	822	472	401	410	412	412	402	402
24	2,630	1,050	810	392	810	738	401	420	412	412	402	402
25	2,650	1,430	810	392	798	410	401	420	412	402	412	393
26	2,870	1,430	692	392	810	410	401	420	402	402	412	393
27	2,450	1,430	624	401	822	410	401	420	412	402	412	402
28	1,690	1,370	547	401	822	420	401	410	412	402	422	402
29	1,620	970	420	420	834	410	401	410	402	402	422	402
30	1,890	956	401	420	------	410	410	410	393	408	412	393
31	2,850	------	401	392	------	410	------	410	------	408	412	------
TOTAL	85,240	47,376	25,523	12,602	17,935	15,064	12,050	12,553	12,058	12,689	12,695	12,347
MEAN	2,750	1,579	823	407	618	486	402	405	402	409	410	412
MAX	4,970	3,250	948	430	834	822	441	483	412	422	422	431
MIN	1,180	942	401	392	392	372	354	382	384	402	392	393
AC-FT	169,100	93,970	50,620	25,000	35,570	29,880	23,900	24,900	23,920	25,170	25,180	24,490
MEAN†	2,887	2,664	3,049	4,263	12,204	7,593	6,353	5,165	2,993	2,496	2,592	2,272
AC-FT†	177,500	158,500	187,500	262,100	702,000	466,900	378,000	317,600	178,100	153,500	159,400	135,200

CAL YR 1967 TOTAL 2,670,639 MEAN 7,317 MAX 48,300 MIN 401 AC-FT 5,297,000 MEAN† 7,607 AC-FT† 5,507,300
WTR YR 1968 TOTAL 278,132 MEAN 760 MAX 4,970 MIN 354 AC-FT 551,700 MEAN† 4,513 AC-FT† 3,276,300

† ADJUSTED FOR DIVERSIONS IN AND OUT OF, CHANGE IN STORAGE OF, AND EVAPORATION FROM LAKE OROVILLE, THERMALITO DIVERSION POOL, THERMALITO FOREBAY, AND THERMALITO AFTERBAY.

11407000 FEATHER RIVER AT OROVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	402	393	402	411	2,030	2,920	430	440	400	420	400	392
2	402	412	402	411	411	2,880	440	420	410	420	400	392
3	393	412	402	420	392	2,920	430	440	400	431	410	392
4	402	422	402	411	402	1,750	2,490	364	391	431	410	382
5	412	402	412	411	402	1,020	2,390	373	391	431	391	392
6	402	402	402	402	411	997	2,390	402	400	431	382	392
7	402	412	384	402	402	616	2,300	411	400	431	410	392
8	393	422	402	392	402	382	2,390	420	400	420	410	392
9	393	422	402	392	411	402	2,340	411	400	431	400	392
10	393	422	402	392	1,820	411	2,300	373	410	431	400	392
11	402	412	393	402	5,650	420	2,340	373	431	431	410	392
12	412	402	399	430	8,570	411	2,390	382	431	431	410	392
13	412	402	411	472	6,270	392	2,430	392	410	431	400	392
14	412	412	411	402	534	382	2,340	402	391	442	400	382
15	412	412	392	392	805	392	2,430	382	391	442	400	402
16	412	412	411	392	1,840	411	2,390	382	391	410	400	411
17	412	422	402	382	2,480	430	2,410	373	410	382	400	411
18	412	422	392	402	9,680	430	1,490	373	410	391	410	411
19	412	422	382	420	8,920	392	1,510	373	400	400	410	402
20	402	422	402	411	6,140	382	1,430	364	410	400	400	392
21	393	412	402	13,000	3,310	402	1,150	364	420	400	400	402
22	384	412	411	37,400	808	440	420	364	410	400	400	411
23	374	402	420	24,800	844	430	430	369	410	400	400	411
24	374	412	420	18,200	2,510	420	420	391	410	400	400	411
25	384	412	420	5,020	4,100	382	420	382	420	410	395	420
26	393	422	411	17,200	4,430	392	420	382	420	400	382	411
27	393	412	411	22,400	5,830	392	402	362	420	400	382	402
28	393	422	420	24,800	4,620	402	420	353	420	410	382	402
29	393	422	411	24,400	------	420	420	391	410	400	382	402
30	393	402	411	24,000	------	411	430	400	420	410	382	402
31	393	------	411	16,200	------	420	------	400	------	410	392	------
TOTAL	12,361	12,391	12,555	235,569	84,424	22,851	43,992	12,008	12,237	12,877	12,350	11,971
MEAN	399	413	405	7,599	3,015	737	1,466	387	408	415	398	399
MAX	412	422	420	37,400	9,680	2,920	2,490	440	431	442	410	420
MIN	374	393	382	382	392	382	402	353	391	382	382	382
AC-FT	24,520	24,580	24,900	467,300	167,500	45,320	87,260	23,820	24,270	25,540	24,500	23,740
MEAN†	1,900	2,541	5,081	24,280	12,270	10,140	16,470	16,650	6,596	2,945	2,851	3,075
AC-FT†	116,800	151,200	312,400	1,493M	681,200	623,600	980,300	1,024M	392,500	181,100	175,300	183,000

CAL YR 1968 TOTAL 157,300 MEAN 430 MAX 834 MIN 354 AC-FT 312,000 MEAN† 4,600 AC-FT† 3,333,000
WTR YR 1969 TOTAL 485,586 MEAN 1,330 MAX 37,400 MIN 353 AC-FT 963,200 MEAN† 8,715 AC-FT† 6,314,000

† ADJUSTED FOR DIVERSIONS IN AND OUT OF, CHANGE IN STORAGE OF, AND EVAPORATION FROM LAKE OROVILLE, THERMALITO DIVERSION POOL, THERMALITO FOREBAY, AND THERMALITO AFTERBAY.
M EXPRESSED IN THOUSANDS.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	427	442	431	423	1,370	468	417	412	412	419	423	406
2	418	423	459	432	438	428	421	404	413	417	421	398
3	398	423	459	431	428	422	425	399	415	417	404	397
4	398	423	442	430	409	434	422	405	419	422	391	390
5	398	442	438	430	399	430	422	415	417	422	400	387
6	398	442	438	437	399	431	425	420	415	425	400	395
7	408	442	438	437	399	431	426	419	415	420	400	400
8	408	442	438	438	390	434	428	416	415	416	406	398
9	408	442	438	449	400	431	405	417	416	536	414	395
10	398	442	437	438	400	435	419	414	414	411	412	398
11	398	442	427	438	399	433	429	410	412	419	390	402
12	408	442	427	448	400	435	428	414	411	418	385	404
13	408	448	427	4,490	418	433	422	413	415	420	388	405
14	398	448	437	31,400	399	429	412	408	414	408	400	407
15	398	447	438	42,500	399	432	398	409	415	405	397	406
16	398	447	438	49,300	428	420	396	405	419	420	400	404
17	389	447	437	48,900	428	423	398	405	420	434	404	405
18	370	447	437	48,900	438	422	399	406	420	444	404	405
19	380	448	437	45,400	428	428	399	410	420	440	406	406
20	380	437	436	32,800	419	428	408	411	416	437	404	403
21	404	447	447	18,800	418	426	422	412	415	422	402	402
22	423	437	427	32,200	428	425	428	413	417	422	396	407
23	423	436	439	46,700	419	426	427	408	416	427	400	405
24	432	436	1,870	53,100	428	422	429	406	415	423	404	400
25	442	436	3,790	53,300	419	415	423	409	411	425	404	400
26	442	434	3,180	51,100	418	411	424	411	410	421	406	399
27	442	432	2,520	48,300	418	410	425	416	408	424	409	400
28	452	431	2,520	39,200	427	411	422	415	407	426	411	404
29	442	417	1,990	35,100	------	411	421	413	414	422	407	408
30	452	408	1,220	26,300	------	413	416	405	418	430	406	408
31	452	------	690	7,430	------	413	------	409	------	427	413	------
TOTAL	12,792	13,130	27,852	720,451	12,563	13,210	12,536	12,729	12,444	13,219	12,507	12,044
MEAN	413	438	898	23,240	449	426	418	411	415	426	403	401
MAX	452	448	3,790	53,300	1,370	468	429	420	420	536	423	408
MIN	370	408	427	423	390	410	396	399	407	405	385	387
AC-FT	25,370	26,040	55,240	1,429M	24,920	26,200	24,870	25,250	24,680	26,220	24,810	23,890
MEAN†	3,908	4,130	11,190	35,880	11,370	10,970	5,530	5,212	2,892	2,638	3,264	3,208
AC-FT†	240,300	245,700	688,000	2,206M	631,400	674,500	328,900	320,500	172,100	162,200	200,700	190,900

CAL YR 1969 TOTAL 502,053 MEAN 1,375 MAX 37,400 MIN 353 AC-FT 995,800 MEAN† 9,542 AC-FT† 6,908,000
WTR YR 1970 TOTAL 875,477 MEAN 2,399 MAX 53,300 MIN 370 AC-FT 1,737,000 MEAN† 8,372 AC-FT† 6,061,000

† ADJUSTED FOR DIVERSIONS IN AND OUT OF, CHANGE IN STORAGE OF, AND EVAPORATION FROM LAKE OROVILLE, THERMALITO DIVERSION POOL, THERMALITO FOREBAY, AND THERMALITO AFTERBAY.
M EXPRESSED IN THOUSANDS.

11407150 FEATHER RIVER NEAR GRIDLEY, CALIF.

LOCATION.--Lat 39°22'00", long 121°38'46", in SW¼ sec.33, T.18 N., R.3 E., Butte County, on right bank 300 ft upstream from highway bridge and 2.7 miles east of Gridley.

DRAINAGE AREA.--3,676 sq mi.

PERIOD OF RECORD.--October 1964 to September 1970. January 1944 to September 1964 are published in reports by California Department of Water Resources.

GAGE.--Water-stage recorder. Datum of gage in 47.09 ft (revised) above mean sea level. Prior to Mar. 13, 1966, on left bank at datum 2.91 ft below mean sea level.

AVERAGE DISCHARGE.--6 years, 5,501 cfs (3,985,000 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 5, 1966	14,000	31.60	June 27, 1966	117
1967	Jan. 30, 1967	45,600	38.70	Oct. 27, 1966	133
1968	Feb. 13, 1968	5,420	27.24	July 26, 1968	366
1969	Jan. 22, 1969	56,400	40.20	Jan. 8, 1969	836
1970	Jan. 27, 1970	72,900	42.81	May 30, 1970	1,510

Period of record: Maximum discharge, 151,000 cfs Dec. 23, 1964 (gage height, 50.43 ft); minimum daily, 117 cfs June 27, 1966.

Flood of Dec. 23, 1955, reached a stage of 52.25 ft (present datum), discharge unknown.

REMARKS.--Flow regulated by Lake Oroville since November 1967 (see station 11406800) and Thermalito afterbay release to Feather River since December 1968 (see station 11406920). See schematic diagram showing diversions and storage from Feather River at Lake Oroville elsewhere in this report. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

COOPERATION.--Records furnished by California Department of Water Resources and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2960	3240	3580	4030	3430	3410	8530	3440	270	463	771	425
2	2870	3200	3500	3740	3650	3360	9470	3340	290	496	779	413
3	2600	3340	3480	3580	3420	3300	9470	3310	193	491	653	647
4	2520	3310	3440	4100	3350	3200	8770	3430	164	527	605	468
5	2580	3100	3440	11600	3840	3170	8280	3800	165	614	612	452
6	2690	3020	3440	10200	4080	3180	8250	4060	162	711	604	582
7	2540	3010	3400	7400	3980	3240	8200	4150	172	659	572	511
8	2490	3040	3390	6510	3660	3380	8100	4100	237	640	597	589
9	2560	2810	3370	5900	3500	3590	7880	4070	176	643	654	526
10	2480	2760	3370	5300	3390	4500	10600	4090	145	645	693	550
11	2390	2830	3400	4830	3250	5780	11100	4760	135	668	702	550
12	2050	2910	3500	4450	3110	6320	10300	4500	131	686	713	549
13	2000	3140	3520	4290	3120	7810	8870	4180	122	670	727	511
14	2010	3830	3450	4120	3040	10700	7760	3740	376	679	727	569
15	2280	4620	3380	3870	3020	9300	7350	3460	239	666	770	719
16	2730	4140	3280	3780	2960	8720	7010	2840	150	683	703	766
17	2870	3950	3330	3800	2940	7260	7170	2610	136	690	473	821
18	2910	8760	3290	3760	2920	6310	7190	2400	142	690	329	817
19	2910	7910	3210	3760	3010	5750	6640	2020	146	690	295	836
20	3090	6820	3190	3780	3300	5410	5640	2090	145	690	261	851
21	3050	5990	3220	3710	3150	5150	4550	1840	160	680	236	857
22	2990	5140	3200	3620	3170	4810	4260	1640	159	678	238	891
23	2780	4680	3260	3600	3210	4540	3960	1310	150	645	206	927
24	2880	4960	3290	3540	3420	4260	3930	1080	128	636	218	909
25	2800	5900	4370	3500	3620	4280	4000	820	123	659	278	917
26	2900	5700	3940	3430	3710	4570	4360	499	118	658	278	896
27	2930	5210	3550	3350	3670	5110	4240	570	117	653	294	829
28	2900	4830	3530	2840	3500	5660	4070	656	158	657	323	820
29	2970	4490	4750	2790	---	6350	3850	374	191	680	379	756
30	2950	3930	4680	3640	---	7560	3650	263	268	689	381	821
31	3000	---	4370	3590	---	8130	---	232	---	718	528	---
TOTAL	83680	130570	110120	140410	94420	168110	207450	79674	5268	20054	15599	20775
MEAN	2699	4352	3552	4529	3372	5423	6915	2570	176	647	503	693
MAX	3090	8760	4750	11600	4080	10700	11100	4760	376	718	779	927
MIN	2000	2760	3190	2790	2920	3170	3650	232	117	463	206	413
AC-FT	166000	259000	218400	278500	187300	333400	411500	158000	10450	39780	30940	41210

CAL YR 1965 TOTAL 2214732 MEAN 6068 MAX 54100 MIN 965 AC-FT 4393000
WTR YR 1966 TOTAL 1076130 MEAN 2948 MAX 11600 MIN 117 AC-FT 2135000

11407150 FEATHER RIVER NEAR GRIDLEY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	742	454	7610	5170	37100	6670	10800	8010	12400	4800	1450	1320
2	756	547	11800	4910	24400	6560	9930	7880	11500	4620	1400	1410
3	756	741	19100	4620	18100	6610	9300	7740	10400	4380	1250	1420
4	761	679	12600	4780	14900	6360	8860	7920	10300	4020	1210	1170
5	673	732	20000	4670	12900	6090	8940	8140	10800	3640	1200	1270
6	488	910	20000	4600	11500	6000	12700	8110	11000	3560	773	1260
7	586	1200	13400	4680	10500	6050	12600	9000	11100	3350	790	1340
8	628	1090	10200	4630	9800	6080	10500	11000	10600	2130	959	1660
9	660	1140	8790	4580	9450	6080	9900	15000	10600	1720	1060	1280
10	683	1150	8380	4430	8690	6240	9770	17000	10600	1770	934	1570
11	709	1260	8060	4390	8840	8120	10000	16000	10400	2660	930	1550
12	549	1390	7340	4270	8370	7870	9240	14000	10200	2560	901	1460
13	470	1360	7100	4330	8670	7570	8800	12700	10400	2530	819	1460
14	526	1190	6190	4600	9060	6520	9010	11900	10100	2460	832	1540
15	557	1780	6350	4430	8730	6310	8840	12700	9670	2120	935	1690
16	575	7610	5610	4360	8250	13800	8390	14700	9590	1400	938	2000
17	601	4280	5160	4310	7910	34400	8340	16800	9710	1380	1130	2310
18	515	1890	4530	4070	7740	30700	9690	18100	9760	2290	1160	2470
19	497	1820	4400	3810	7440	29500	9340	18800	10100	2070	1230	2380
20	394	11900	4680	4080	7760	23100	9550	19500	10000	2120	1250	2140
21	265	10100	5720	18700	7110	18700	9440	20900	9370	2080	1390	2430
22	219	7080	5790	41400	6980	17000	8950	22100	8710	1600	1260	2550
23	210	4720	5580	20900	6910	17700	8790	22300	7870	990	1290	2400
24	202	4090	5520	14200	6760	18600	9370	23300	7170	978	1150	2170
25	202	3010	5190	12400	7040	16100	9070	22900	6970	1900	791	2310
26	147	2010	4580	9170	6830	14000	8840	20600	6790	1890	853	2380
27	133	1760	4460	9580	6610	12300	8970	18200	6300	1670	985	2410
28	311	1950	4820	13200	6480	11100	8930	16900	5580	1630	1080	2650
29	383	11600	5060	31500	---	11000	8700	15300	5230	1330	1330	2060
30	395	9780	5000	45000	---	10200	8550	14300	4800	838	1360	1140
31	430	---	4620	44400	---	11300	---	13000	---	823	1340	---
TOTAL	15023	99223	247640	350170	294330	388630	284110	464800	278020	71309	33980	55200
MEAN	485	3307	7988	11300	10510	12540	9470	14990	9267	2300	1096	1840
MAX	761	11900	20000	45000	37100	34400	12700	23300	12400	4800	1450	2650
MIN	133	454	4400	3810	6480	6000	8340	7740	4800	823	773	1140
AC-FT	29800	196800	491200	694600	583800	770800	563500	921900	551500	141400	67400	109500

CAL YR 1966 TOTAL 1113646 MEAN 3051 MAX 20000 MIN 117 AC-FT 2209000
WTR YR 1967 TOTAL 2582435 MEAN 7075 MAX 45000 MIN 133 AC-FT 5122000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	697	2690	964	892	1040	867	843	2050	2490	574	426	824
2	1910	3120	953	897	1090	857	828	2180	2360	509	410	819
3	3880	3000	953	893	1070	880	838	3260	2290	457	404	830
4	3290	2730	931	889	1050	863	850	3720	2140	428	408	831
5	2700	1980	920	911	1030	868	847	3750	1930	419	408	854
6	2690	1990	920	923	988	864	824	3490	1480	422	400	851
7	2780	2840	920	925	1010	877	807	2530	962	415	389	850
8	2470	2170	920	931	996	855	816	2320	942	420	389	844
9	2440	1210	920	937	966	822	824	1760	925	419	389	848
10	2200	1260	920	990	964	817	816	980	911	410	395	837
11	1980	1230	920	930	953	821	814	975	917	406	396	852
12	1600	1470	920	931	953	820	814	1000	908	403	390	862
13	1190	2190	920	931	3220	868	802	1380	865	407	388	866
14	2290	1930	920	955	1990	839	808	3060	870	404	393	860
15	2200	1190	920	998	1050	841	802	1050	1070	396	393	854
16	2170	1070	931	965	1020	888	622	2010	1280	396	394	1030
17	2240	994	931	942	1010	866	756	2590	1280	391	404	913
18	2090	975	942	906	966	846	768	2970	1290	381	404	880
19	2020	991	942	873	989	840	771	2910	1350	379	503	872
20	1950	985	942	779	1080	858	768	2500	1610	377	558	860
21	1850	959	903	875	1090	868	786	1280	1610	378	555	856
22	1380	964	905	899	1060	860	893	2650	1960	381	559	847
23	1670	964	868	930	1010	853	1210	2890	2020	381	584	859
24	1810	1160	860	972	974	823	1190	3140	1910	381	591	858
25	2140	1470	860	1070	943	884	1180	3210	1440	374	598	856
26	2110	1470	893	1020	929	797	1180	3240	1020	366	745	852
27	2300	1480	863	992	921	848	1210	3290	831	370	793	864
28	1880	1420	909	1010	909	843	1260	3300	814	379	788	868
29	1610	987	906	1080	909	835	1370	3060	762	374	784	875
30	1450	984	887	1110	---	845	1780	2820	795	373	795	881
31	2500	---	888	1050	---	847	---	2680	---	392	819	---
TOTAL	65487	47873	28351	29406	32180	26360	28077	78045	41032	12562	15852	25853
MEAN	2112	1596	915	949	1110	850	936	2518	1368	405	511	862
MAX	3880	3120	964	1110	3220	888	1780	3750	2490	574	819	1030
MIN	697	959	860	779	909	797	622	975	762	366	388	819
AC-FT	129900	94960	56230	58330	63830	52290	55690	154800	81390	24920	31440	51280

CAL YR 1967 TOTAL 2362260 MEAN 6472 MAX 45000 MIN 697 AC-FT 4686000
WTR YR 1968 TOTAL 431078 MEAN 1178 MAX 3880 MIN 366 AC-FT 855000

11407150 FEATHER RIVER NEAR GRIDLEY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	888	1100	894	877	17600	12400	5440	10400	6250	1130	4280	6700
2	884	1130	873	877	12000	12400	5790	10200	5480	1130	4260	6780
3	900	1160	889	877	10600	12300	10500	8390	4340	1110	4220	6830
4	910	1140	898	877	9950	12000	14700	8160	4330	1110	4640	6830
5	921	1140	898	864	9780	10900	15700	8200	3450	1200	5930	6810
6	914	1110	898	856	10400	10100	15800	8180	3360	1940	6200	6790
7	907	1080	907	856	10900	9800	16100	8190	2400	2050	6370	6750
8	902	1090	914	836	10300	8570	16100	8120	1430	2060	6960	6760
9	905	1100	948	845	11000	7690	16100	8090	1210	2270	6620	6760
10	921	1120	969	841	13300	7030	15900	8060	1210	2610	5780	6760
11	950	1110	934	893	17600	5490	15400	8160	1200	2590	6420	6750
12	979	1120	902	994	21800	4620	15500	8130	1180	2590	6950	6740
13	957	1080	914	4210	20500	4490	15400	8130	1170	2590	6950	6740
14	1010	1100	967	3190	14300	4110	15400	9710	1140	2620	6910	6710
15	1100	1100	924	1200	14100	4120	15500	10700	1130	2620	6900	6710
16	1150	946	844	1070	14900	4370	15600	10800	1130	2600	6840	6740
17	1160	920	863	989	15500	5180	15800	10700	1130	2550	6810	6750
18	1140	934	888	948	15400	5280	14900	10600	1140	2530	6890	6780
19	1130	913	867	1070	14200	6220	15200	10600	1140	2540	6890	6750
20	1120	899	856	1650	12300	7790	14600	10600	1310	2540	6880	6700
21	1120	895	857	13000	11700	9230	14600	10600	1560	2540	6840	6660
22	1130	892	866	50300	12000	10800	14000	10000	1550	2550	6840	6710
23	1120	887	875	39200	12400	10600	14300	8910	1550	3350	6810	6720
24	1100	895	920	37300	12300	8730	14100	8010	1530	4030	6760	6700
25	1090	886	927	21000	13500	5880	14200	8000	1530	4310	6820	6700
26	1100	886	899	29300	12100	5730	14100	7220	1160	4300	6850	6700
27	1100	896	905	35700	12100	5600	14100	6120	1130	4290	6820	6320
28	1100	900	912	38500	12000	5450	14100	6080	1130	4300	6830	5330
29	1140	911	909	38500	---	5440	12600	6100	1130	4320	6820	4340
30	1130	917	889	38000	---	5440	11900	6180	1120	4320	6790	3310
31	1100	---	883	34100	---	5440	---	6240	---	4300	6740	---
TOTAL	31978	30257	27889	399720	374530	233200	423430	267580	58520	84990	198620	194630
MEAN	1032	1009	900	12890	13380	7523	14110	8632	1951	2742	6407	6488
MAX	1160	1160	969	50300	21800	12400	16100	10800	6250	4320	6960	6830
MIN	884	886	844	836	9780	4110	5440	6080	1120	1110	4220	3310
AC-FT	63430	60010	55320	792800	742900	462600	839900	530700	116100	168600	394000	386000

CAL YR 1968 TOTAL 379491 MEAN 1037 MAX 3750 MIN 366 AC-FT 752700
WTR YR 1969 TOTAL 2325344 MEAN 6371 MAX 50300 MIN 836 AC-FT 4612000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3060	2980	3270	14800	20500	10600	2990	1860	1530	1730	2500	4330
2	3030	2920	3430	14000	16100	13500	2980	1870	1540	1690	2670	4290
3	3040	2990	3420	12800	12000	13500	2920	1870	1700	1670	2960	4330
4	3010	3050	3410	11600	9470	13600	2860	1870	1970	1660	3460	4340
5	3010	3090	3410	8580	9020	13600	2870	1890	2110	1660	3560	4340
6	3030	3070	3400	4230	8890	13600	2810	1920	1940	1640	3690	4330
7	3040	3030	3640	4190	8800	13600	2740	1850	1820	1630	3700	4330
8	3040	3000	3840	4160	8770	13700	2700	1620	1850	1620	3680	4300
9	3040	2960	3910	4170	8740	14000	2680	1650	1830	1610	3690	4310
10	3030	3010	4060	5900	8690	14400	2670	1630	1790	1640	3750	4310
11	2980	3010	4720	9950	8810	14400	2660	1630	1750	1640	3950	4330
12	3160	3000	5220	11500	9120	14400	2670	1700	1720	1620	3970	4340
13	3030	3000	5700	16500	9610	12800	2640	1670	1730	1620	3930	4360
14	2920	3000	5960	43600	11100	12100	2530	1630	1740	1650	4010	4340
15	3000	2990	6000	57900	12400	12300	2490	1660	1750	1620	4140	4320
16	2970	3350	6030	65600	12600	10200	2470	1640	1760	1650	4030	4340
17	2950	3430	6030	69500	13300	9080	2400	1590	1750	1650	4050	4410
18	2900	3470	6050	68300	13200	9220	2210	1680	1760	1670	4030	4530
19	2860	3460	6170	66300	13200	9300	2050	1680	1750	1620	4040	4520
20	2910	3450	6220	57400	13200	5670	2060	1620	1740	1650	4030	4520
21	2980	3460	6290	40000	13300	2970	2090	1600	1740	1650	4010	4520
22	2980	3460	6040	47100	13300	2650	2080	1620	1740	1660	3990	4520
23	3010	3450	5510	59900	13400	2420	2070	1570	1760	1630	4000	4560
24	3020	3470	11700	67900	13200	2160	1980	1580	1760	1660	4020	4480
25	2990	3400	22400	70600	12500	2010	1880	1630	1760	1630	4110	4480
26	2980	3240	22300	71800	9300	2020	1860	1640	1760	1620	4290	4560
27	3000	3230	22200	70800	9260	2230	1840	1580	1760	1700	4350	4410
28	3010	3250	22100	62900	9310	2410	1840	1550	1760	1890	4340	4080
29	3010	3220	22100	54600	---	2590	1840	1520	1760	2090	4390	3560
30	3020	3200	21400	47500	---	2770	1850	1510	1760	2200	4380	3110
31	2980	---	18300	29600	---	2980	---	1520	---	2290	4370	---
TOTAL	92990	95640	274230	1173680	321090	270780	71730	51850	53090	52960	120090	129500
MEAN	3000	3188	8846	37860	11470	8735	2391	1673	1770	1708	3874	4317
MAX	3160	3470	22400	71800	20500	14400	2990	1920	2110	2290	4390	4560
MIN	2860	2920	3270	4160	8690	2010	1840	1510	1530	1610	2500	3110
AC-FT	184400	189700	543900	2328000	636900	537100	142300	102800	105300	105000	238200	256900

CAL YR 1969 TOTAL 2698080 MEAN 7392 MAX 50300 MIN 836 AC-FT 5352000
WTR YR 1970 TOTAL 2707630 MEAN 7418 MAX 71800 MIN 1510 AC-FT 5371000

11407300 NORTH HONCUT CREEK NEAR BANGOR, CALIF.

LOCATION.--Lat 39°20'32", long 121°29'25", in SW¼ sec.11, T.17 N., R.4 E., Butte County, on left bank 0.2 mile upstream from unnamed tributary and 5.7 miles southwest of Bangor.

DRAINAGE AREA.--47.1 sq mi.

PERIOD OF RECORD.--October 1960 to September 1962, July 1963 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 125 ft (from topographic map). Prior to September 1962, at site 50 ft upstream at present datum.

AVERAGE DISHCARGE.--9 years, 50.1 cfs (36,300 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 4, 1966	1,820	7.48	Many days	0
1967	Jan. 21, 1967	9,060	11.11	July 17, 1967	.40
1968	Jan. 30, 1968	3,030	8.62	July 25, 26, 1968	0
1969	Jan. 13, 1969	6,930	10.73	Aug. 17-19, 1969	.30
1970	Jan. 14, 1970	6,930	11.16	July 29, 30, Aug. 9, 10, 1970	.40

Period of record: Maximum discharge, 10,700 cfs Dec. 26, 1964 (gage height, 11.57 ft), from rating curve extended above 4,600 cfs; no flow for many days in 1961-62, 1966, 1968.

REMARKS.--Small diversions above station for irrigation. No gage-height record Apr. 9 to May 20, May 27 to July 3, 1969. *Slight regulation occurs from Lake Wyandotte (capacity, 1,460 acre-ft).*

COOPERATION.--Records furnished by California Department of Water Resources and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	4.6	9.4	46	290	48	10	5.2	2.5	0	1.1	1.3
2	3.0	5.1	10	36	192	42	10	4.8	2.4	0	.90	1.2
3	2.9	7.1	9.8	31	84	37	8.9	4.6	2.1	.10	.60	1.1
4	2.6	5.5	7.7	443	98	33	8.2	4.6	2.0	.30	.30	.90
5	3.3	3.3	7.5	1080	106	31	7.5	4.9	2.1	.40	.10	.80
6	3.7	2.3	7.3	267	70	29	7.4	4.8	3.6	.20	0	1.1
7	3.8	2.0	7.1	154	54	32	7.1	4.6	5.9	.20	0	1.6
8	4.3	2.4	6.8	122	44	29	6.9	4.5	4.5	.50	0	1.4
9	4.4	2.3	6.6	101	38	28	7.7	4.5	3.8	.80	0	1.5
10	4.9	2.5	6.3	53	33	44	34	5.3	3.4	1.0	0	2.0
11	5.3	2.2	6.8	42	29	35	24	5.7	3.1	.90	0	2.0
12	5.6	2.4	14	36	27	31	28	5.0	2.5	.80	0	2.1
13	5.5	4.3	16	31	24	39	23	4.3	2.0	1.0	0	1.9
14	5.4	21	13	28	22	36	17	3.6	1.8	1.5	0	2.7
15	6.0	18	11	26	21	32	14	3.3	1.6	1.7	0	2.6
16	6.0	11	10	23	20	32	12	3.1	1.1	1.4	0	1.9
17	4.7	45	8.9	21	20	28	11	3.0	1.0	1.1	0	1.5
18	4.8	135	7.9	19	19	26	10	2.6	1.1	.90	0	1.5
19	4.7	39	8.1	18	34	32	9.8	2.4	1.1	.90	0	1.9
20	4.7	20	8.7	17	44	30	8.7	2.5	.90	.80	0	1.8
21	4.3	13	8.7	16	31	26	9.2	2.5	1.0	.60	0	1.4
22	3.8	10	8.4	15	28	23	8.7	2.6	1.2	.70	0	1.1
23	3.7	9.7	7.6	14	30	21	7.9	2.6	1.3	1.0	0	1.2
24	4.2	72	7.9	13	40	20	7.5	2.8	1.2	.60	.10	1.3
25	3.5	45	128	13	79	19	6.9	2.8	.80	.40	0	1.4
26	3.5	24	40	12	135	17	6.7	2.4	.60	.20	0	1.7
27	3.4	16	27	12	72	16	6.6	2.3	.30	0	.10	1.5
28	3.8	13	205	11	55	15	6.4	2.2	.20	0	.40	1.1
29	4.1	10	369	17	---	14	6.8	2.2	0	0	.40	.80
30	4.4	9.7	99	450	---	12	5.6	2.4	0	0	.50	.80
31	4.3	---	82	107	---	11	---	2.6	---	.30	.90	---
TOTAL	131.3	557.4	1165.5	3274	1739	868	337.5	110.7	55.10	18.30	5.40	45.10
MEAN	4.24	18.6	37.6	106	62.1	28.0	11.3	3.57	1.84	.59	.17	1.50
MAX	6.0	135	369	1080	290	48	34	5.7	5.9	1.7	1.1	2.7
MIN	2.6	2.0	6.3	11	19	11	5.6	2.2	0	0	0	.80
AC-FT	260	1110	2310	6490	3450	1720	669	220	109	36	11	89

CAL YR 1965 TOTAL 13660.10 MEAN 37.4 MAX 1990 MIN .30 AC-FT 27090
WTR YR 1966 TOTAL 8307.30 MEAN 22.8 MAX 1080 MIN 0 AC-FT 16480

11407300 NORTH HONCUT CREEK NEAR BANGOR, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	6.6	280	11	369	14	322	71	21	2.9	1.3	2.0
2	2.1	6.3	1070	11	216	13	170	55	25	2.7	1.2	1.9
3	2.9	3.9	566	11	94	13	123	47	20	2.5	1.0	2.1
4	3.1	2.9	355	11	75	13	96	38	18	2.0	1.3	1.5
5	2.7	2.4	1150	12	65	12	143	32	17	1.9	1.4	1.2
6	2.7	4.9	671	11	56	12	1140	28	15	1.9	1.4	1.3
7	3.0	19	166	11	51	12	360	25	12	2.3	1.8	1.9
8	3.1	8.8	85	10	44	13	178	22	9.7	2.5	1.9	2.1
9	2.9	5.8	52	10	39	12	126	19	8.8	2.5	2.1	2.1
10	2.7	4.5	50	9.4	36	13	137	23	8.2	2.6	2.5	2.1
11	2.6	4.2	43	8.7	32	100	366	20	7.8	2.1	2.5	2.0
12	3.1	5.0	35	8.6	30	182	177	21	15	1.6	2.6	2.0
13	2.6	6.8	30	8.2	27	184	119	18	41	1.3	2.9	1.8
14	2.5	5.6	33	7.6	25	283	97	15	19	1.0	2.0	1.6
15	2.7	9.2	27	7.6	23	121	97	14	15	.80	1.4	1.4
16	3.3	69	24	7.6	21	791	87	13	13	.50	1.4	1.5
17	5.4	27	22	7.2	21	289	173	12	12	.40	2.4	1.8
18	6.1	14	20	7.0	19	146	260	10	11	.50	2.2	3.0
19	6.6	50	19	6.6	18	106	249	9.3	11	.70	2.4	3.4
20	6.1	379	18	280	16	87	218	8.5	9.9	.90	1.8	2.4
21	5.5	127	19	3270	15	92	157	7.9	8.7	.90	1.6	1.8
22	6.0	101	17	1370	14	75	143	7.3	7.9	.90	1.7	2.2
23	6.3	37	16	268	14	177	131	6.6	6.7	1.1	1.4	3.3
24	6.6	23	14	354	14	114	346	7.6	5.9	1.7	1.2	4.0
25	6.6	16	13	174	22	83	186	7.7	5.1	2.1	1.2	4.0
26	6.5	10	13	205	21	69	123	7.8	4.6	1.9	1.5	3.8
27	6.6	6.7	12	351	16	59	139	8.2	3.9	1.7	1.2	3.3
28	7.4	20	12	1000	15	51	107	9.0	3.5	1.4	1.3	3.3
29	7.7	614	12	1330	---	68	85	9.2	3.3	1.3	1.4	3.7
30	7.3	84	11	934	---	132	88	9.2	3.5	1.2	1.7	4.1
31	6.9	---	11	965	---	851	---	9.6	---	1.3	1.9	---
TOTAL	140.9	1673.6	4866	10677.5	1408	4187	6143	590.9	362.5	49.10	53.6	72.6
MEAN	4.55	55.8	157	344	50.3	135	205	19.1	12.1	1.58	1.73	2.42
MAX	7.7	614	1150	3270	369	851	1140	71	41	2.9	2.9	4.1
MIN	1.3	2.4	11	6.6	14	12	85	6.6	3.3	.40	1.0	1.2
AC-FT	279	3320	9650	21180	2790	8300	12180	1170	719	97	106	144

CAL YR 1966 TOTAL 13133.60 MEAN 36.0 MAX 1150 MIN 0 AC-FT 26050
WTR YR 1967 TOTAL 30224.70 MEAN 82.8 MAX 3270 MIN .40 AC-FT 59950

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	3.3	13	2.9	173	32	18	6.7	2.9	.60	1.1	1.3
2	4.9	5.4	7.4	2.9	532	29	18	6.7	2.8	.40	1.4	1.6
3	8.1	4.0	8.7	3.0	186	25	14	5.9	2.6	.30	1.5	1.6
4	7.0	3.3	27	3.0	103	22	17	5.5	2.8	.40	1.5	1.6
5	7.1	3.2	35	3.2	77	19	15	5.3	3.0	.50	1.2	1.7
6	5.9	3.4	17	3.2	49	16	16	5.0	3.5	.60	1.2	1.9
7	5.4	3.5	33	2.9	38	15	16	4.9	5.3	.40	1.1	1.8
8	5.5	3.4	26	2.9	31	30	16	4.8	5.6	.40	1.1	2.1
9	5.5	3.1	13	3.3	26	25	16	4.7	4.1	.60	1.1	2.1
10	5.4	3.2	8.7	133	24	17	15	4.5	3.5	1.0	1.1	2.0
11	5.2	3.1	6.2	64	21	13	15	4.6	3.1	1.4	1.2	2.1
12	5.1	2.0	5.1	26	19	28	14	5.1	3.1	1.4	1.2	2.1
13	5.0	1.1	4.2	16	22	592	14	5.4	3.3	1.2	1.5	2.1
14	5.0	1.5	3.3	18	22	260	13	6.0	3.1	1.1	1.5	2.1
15	4.3	1.8	3.3	465	18	114	13	6.1	2.6	1.3	1.8	2.2
16	3.6	1.8	3.0	93	19	391	13	5.6	2.2	1.3	1.8	1.9
17	3.1	1.4	2.9	52	417	208	12	4.9	1.9	1.3	1.8	1.7
18	2.8	2.2	3.2	30	171	92	12	4.3	1.6	1.3	1.9	1.5
19	2.7	7.8	3.7	21	428	65	12	4.0	1.5	1.1	2.1	1.5
20	2.6	7.6	3.5	16	844	49	11	3.9	1.7	.90	3.2	1.7
21	2.3	3.8	3.3	13	630	41	11	4.0	1.6	.80	3.1	1.8
22	2.3	2.6	3.0	11	244	36	9.7	4.1	1.6	.50	2.8	1.7
23	2.7	1.8	3.1	9.4	175	30	9.4	4.1	1.5	.30	2.4	1.7
24	3.5	1.6	3.2	8.3	141	26	9.4	4.5	1.3	.10	2.0	1.6
25	3.9	1.7	3.0	7.7	114	25	8.8	4.9	1.1	0	1.7	1.9
26	4.1	1.7	3.1	7.1	60	22	7.4	4.6	.90	0	1.7	2.1
27	4.2	1.6	2.9	6.5	48	21	5.9	3.8	.90	.20	1.7	2.3
28	4.0	2.3	2.8	5.8	40	20	7.1	3.4	.90	.30	1.5	2.2
29	3.6	4.9	2.9	55	36	20	7.0	3.1	.90	.20	1.5	2.2
30	3.0	21	2.8	1470	---	18	7.1	3.1	.80	.20	1.2	2.2
31	2.9	---	2.8	346	---	16	---	3.0	---	.60	1.0	---
TOTAL	134.9	109.1	260.1	2901.1	4708	2317	372.8	146.5	71.70	20.70	50.9	56.3
MEAN	4.35	3.64	8.39	93.6	162	74.7	12.4	4.73	2.39	.67	1.64	1.88
MAX	8.1	21	35	1470	844	592	18	6.7	5.6	1.4	3.2	2.3
MIN	2.3	1.1	2.8	2.9	18	13	5.9	3.0	.80	0	1.0	1.3
AC-FT	268	216	516	5750	9340	4600	739	291	142	41	101	112

CAL YR 1967 TOTAL 24048.30 MEAN 65.9 MAX 3270 MIN .40 AC-FT 47700
WTR YR 1968 TOTAL 11149.10 MEAN 30.5 MAX 1470 MIN 0 AC-FT 22110

11407300 NORTH HONCUT CREEK NEAR BANGOR, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	3.0	22	49	82	648	13	14	3.8	2.9	.90	.90
2	2.9	3.4	17	41	86	227	13	14	4.0	2.8	.90	.90
3	2.9	37	12	35	68	189	18	13	4.0	2.6	1.0	.70
4	3.1	33	9.6	31	58	125	16	13	3.8	2.4	.90	.50
5	3.1	15	7.1	27	502	98	107	12	5.0	2.6	1.1	.40
6	3.1	8.7	7.0	25	366	84	161	11	6.0	2.4	1.1	.50
7	3.1	6.4	6.3	22	140	72	85	11	7.5	2.2	1.1	.50
8	3.1	4.9	6.0	20	99	63	58	10	8.0	2.1	1.0	.40
9	3.1	4.0	5.8	18	436	55	50	9.5	8.4	1.8	.90	.60
10	3.1	3.5	18	17	206	52	45	9.0	8.0	1.7	.70	.50
11	3.4	3.5	107	359	614	44	40	8.6	13	1.6	.70	.60
12	8.3	28	40	1310	863	40	37	8.2	14	1.4	.60	.80
13	13	21	26	3830	223	37	35	8.2	11	1.2	.60	1.0
14	14	12	506	631	321	34	33	7.8	9.0	1.2	.50	1.2
15	14	50	412	179	1230	31	30	7.6	7.6	1.2	.40	1.4
16	9.3	32	180	108	399	29	27	7.2	6.8	1.2	.40	1.3
17	4.9	17	77	78	177	32	26	6.8	6.2	1.2	.30	1.5
18	3.2	28	51	123	173	31	25	6.4	5.6	1.1	.30	1.6
19	2.5	44	40	1870	132	27	24	6.2	5.0	1.0	.30	1.8
20	2.2	23	32	1280	108	26	22	6.4	4.6	.90	.40	2.0
21	1.9	15	25	2670	98	55	21	7.1	5.6	.90	.40	2.4
22	1.7	12	21	688	81	41	20	6.7	6.4	.80	.40	2.3
23	1.5	9.3	24	174	217	31	40	6.4	8.0	.70	.40	2.2
24	1.3	8.6	449	137	269	27	45	6.4	6.0	.70	.40	2.1
25	1.9	10	524	593	262	24	30	6.0	5.0	.70	.40	2.0
26	2.2	7.4	189	1110	151	22	23	5.6	4.2	.90	.60	1.7
27	1.8	7.1	93	215	111	20	19	5.2	3.4	1.0	.60	1.8
28	1.2	6.1	138	130	566	18	17	5.0	3.2	1.0	.60	1.9
29	1.4	5.5	156	93	---	17	16	4.8	3.1	1.1	.80	2.0
30	4.4	13	86	105	---	15	15	4.6	3.0	1.1	.90	2.3
31	4.5	---	62	91	---	14	---	4.2	---	1.1	.80	---
TOTAL	128.6	471.4	3348.8	16059	8038	2228	1111	251.9	189.2	45.50	20.40	39.80
MEAN	4.15	15.7	108	518	287	71.9	37.0	8.13	6.31	1.47	.66	1.33
MAX	14	50	524	3830	1230	648	161	14	14	2.9	1.1	2.4
MIN	1.2	3.0	5.8	17	58	14	13	4.2	3.0	.70	.30	.40
AC-FT	255	935	6640	31850	15940	4420	2200	500	375	90	40	79

CAL YR 1968 TOTAL 14593.80 MEAN 39.9 MAX 1470 MIN 0 AC-FT 28950
WTR YR 1969 TOTAL 31931.60 MEAN 87.5 MAX 3830 MIN .30 AC-FT 63340

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	4.3	2.4	23	64	1430	14	9.0	3.8	3.4	1.3	1.9
2	2.4	4.8	2.4	20	54	282	13	7.6	3.2	3.1	.90	1.6
3	2.4	4.3	2.4	18	45	149	13	7.0	2.8	2.7	.70	1.3
4	2.4	4.8	2.4	16	40	242	16	7.0	2.2	2.4	.60	1.5
5	2.7	20	2.4	16	32	223	16	6.7	1.9	2.0	.70	2.2
6	2.4	23	2.4	15	24	137	16	7.4	1.8	1.9	.80	2.5
7	2.4	15	2.5	14	21	115	16	8.9	1.9	2.1	.80	2.4
8	2.6	12	3.1	15	18	555	15	9.2	2.2	1.8	.60	2.1
9	2.8	7.8	3.9	245	16	195	16	9.8	4.3	1.5	.40	2.0
10	3.1	5.4	5.4	382	14	307	16	9.6	5.9	1.3	.40	1.6
11	3.0	4.3	8.5	130	12	169	18	9.2	5.3	1.2	.50	1.3
12	3.1	3.9	13	309	18	131	17	8.8	4.5	1.2	.80	1.1
13	3.2	3.8	37	899	1270	108	20	8.9	4.2	1.3	1.0	.90
14	3.5	3.7	22	2650	790	91	24	8.2	5.2	1.0	1.3	1.0
15	6.4	3.9	12	380	190	74	21	7.3	5.7	1.3	1.3	1.2
16	22	3.5	8.2	1620	281	62	18	6.8	5.9	1.5	1.4	1.3
17	9.1	3.3	6.9	394	573	53	18	6.3	4.9	1.6	1.4	1.2
18	5.2	3.1	6.1	191	182	46	17	5.7	4.2	1.7	1.5	.90
19	4.5	3.0	250	486	131	40	17	5.8	3.6	1.4	1.6	.90
20	3.9	3.0	627	684	105	35	15	6.0	2.8	1.3	1.7	1.4
21	3.6	2.9	806	2820	89	32	14	6.7	2.2	1.2	1.9	1.9
22	4.0	2.8	177	724	75	29	13	5.8	2.1	1.3	2.2	1.7
23	4.1	2.7	829	446	65	27	13	5.5	2.0	1.2	2.5	1.8
24	4.1	2.7	2190	1090	58	25	13	4.7	2.3	.80	3.1	2.3
25	4.3	2.6	384	229	51	23	13	4.3	2.2	.80	3.4	2.2
26	4.6	2.6	139	149	44	21	13	4.5	2.3	.80	3.7	2.4
27	4.6	2.6	82	737	40	20	13	4.9	2.3	.60	3.8	2.9
28	4.6	2.6	53	194	52	18	12	4.9	2.7	.50	3.7	2.5
29	4.9	2.6	38	125	---	17	11	4.9	3.7	.40	2.5	2.4
30	4.1	2.6	31	97	---	16	9.8	4.9	3.9	.40	1.8	2.4
31	4.4	---	25	77	---	15	---	4.1	---	1.0	1.8	---
TOTAL	136.9	163.6	5774.0	15195	4354	4687	460.8	210.4	102.0	44.70	50.10	52.80
MEAN	4.42	5.45	186	490	156	151	15.4	6.79	3.40	1.44	1.62	1.76
MAX	22	23	2190	2820	1270	1430	24	9.8	5.9	3.4	3.8	2.9
MIN	2.4	2.6	2.4	14	12	15	9.8	4.1	1.8	.40	.40	.90
AC-FT	272	325	11450	30140	8640	9300	914	417	202	89	99	105

CAL YR 1969 TOTAL 34057.30 MEAN 93.3 MAX 3830 MIN .30 AC-FT 67550
WTR YR 1970 TOTAL 31231.30 MEAN 85.6 MAX 2820 MIN .40 AC-FT 61950

11407500 SOUTH HONCUT CREEK NEAR BANGOR, CALIF.

LOCATION.--Lat 39°22'04", long 121°22'16", in SE¼SE¼ sec.35, T.18 N., R.5 E., Butte County, on right bank 2.3 miles southeast of Bangor, 3.3 miles upstream from Tennessee Creek, and 16.3 miles southeast of Oroville.

DRAINAGE AREA.--30.6 sq mi.

PERIOD OF RECORD.--October 1950 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 620 ft (from topographic map).

AVERAGE DISCHARGE.--20 years, 36.5 cfs (26,440 acre-ft per year); median of yearly mean discharges, 31 cfs (22,500 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (1,400 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Jan. 4, 1966	2115	*1,280	6.98	Jan. 13, 1969	0345	3,160	8.78	Jan. 14, 1970	1015	*3,890	9.37
				Jan. 19, 1969	2015	2,270	8.01	Jan. 16, 1970	0615	3,440	9.02
Dec. 2, 1966	1930	2,420	8.15	Jan. 21, 1969	1130	*4,500	9.84	Jan. 19, 1970	2000	1,960	7.73
Jan. 21, 1967	2000	*6,040	10.95	Jan. 26, 1969	0345	3,040	8.68	Jan. 21, 1970	1830	3,240	8.85
Jan. 29, 1967	0430	2,300	8.04	Feb. 15, 1969	1515	1,900	7.67	Jan. 24, 1970	-	-	-
								Jan. 27, 1970	-	-	-
Jan. 30, 1968	0245	1,580	7.35	Dec. 21, 1969	1045	1,670	7.46	Feb. 13, 1970	-	2,300	8.03
Feb. 19, 1968	2230	*1,740	7.55	Dec. 23, 1969	2200	2,510	8.25	Mar. 1, 1970	1000	2,180	7.91

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Many days	0	1969	Sept. 10-12, 15, 28, 29, 1969	.05
1967	Oct. 3-6, 10, 11, 1966	0	1970	Many days	0
1968	July 27, 31, Aug. 1, 2, 1968	0			

Period of record: Maximum discharge, 17,600 cfs Dec. 26, 1964 (gage height, 19.25 ft), from rating curve extended above 2,200 cfs on basis of slope-area measurements at gage heights 11.15 and 19.25 ft; no flow at times in most years.

REMARKS.--Records good. Some small diversions upstream for irrigation.

REVISIONS.--WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.20	.40	3.6	41	110	30	8.2	3.2	1.8	.20		0
2	.20	.40	3.3	29	92	25	7.8	3.0	1.7	.20		0
3	.20	.50	3.1	24	55	22	9.3	3.0	1.5	.10		0
4	.20	.50	3.0	365	63	20	6.8	2.7	1.2	.10		0
5	.20	.50	2.9	575	66	18	6.2	2.7	1.1	.10		0
6	.20	.50	2.7	158	54	18	5.9	2.6	1.2	.10		0
7	.20	.60	2.7	76	40	21	5.9	2.6	1.3	.10		0
8	.20	.80	2.6	50	32	18	6.1	2.6	1.3	.10		0
9	.20	.80	2.6	37	26	20	13	2.7	1.1	.10		0
10	.30	.80	2.6	29	23	32	32	3.1	1.1	.20		0
11	.20	.80	3.2	24	20	23	15	3.0	1.0	.30		0
12	.20	1.3	9.6	20	18	20	33	2.6	.80	.20		0
13	.20	2.6	6.0	18	16	30	18	2.4	.70	.30		0
14	.30	13	4.3	16	16	23	12	2.3	.60	.30		0
15	.40	4.3	3.9	15	15	20	8.9	2.1	.40	.30		0
16	.30	2.7	3.6	13	14	22	7.8	2.6	.40	.30		0
17	.30	129	3.3	12	13	18	7.2	2.0	.40	.20		0
18	.30	104	3.1	11	13	18	6.8	1.8	.40	.10		0
19	.40	27	3.0	11	31	26	6.2	1.6	.30	.10		0
20	.40	8.8	2.9	9.9	25	20	5.6	1.4	.30	.10		0
21	.40	4.7	2.9	9.3	18	18	4.9	1.4	.30	0		0
22	.30	3.7	2.8	9.2	16	15	4.6	1.6	.30	0		.10
23	.30	4.8	2.6	9.4	18	15	4.3	2.5	.30	0		.10
24	.30	135	82	8.4	24	16	4.2	2.6	.30	0		.10
25	.30	32	143	7.9	31	16	4.2	2.4	.30	0		.10
26	.30	14	31	7.8	61	16	3.8	2.1	.20	0		.10
27	.30	9.2	19	7.4	43	15	3.6	2.1	.20	0		.10
28	.30	6.6	254	6.9	34	14	3.6	1.6	.20	0		0
29	.30	5.0	179	34	---	14	3.4	2.1	.10	0		0
30	.30	3.9	100	174	---	12	3.2	2.9	.10	0		0
31	.30	---	76	66	---	11	---	1.9	---	0		---
TOTAL	8.50	518.20	964.3	1874.2	987	606	261.5	73.2	20.90	3.50	0	.60
MEAN	.27	17.3	31.1	60.5	35.3	19.5	8.72	2.36	.70	.11	0	.020
MAX	.40	135	254	575	110	32	33	3.2	1.8	.30	0	.10
MIN	.20	.40	2.6	6.9	13	11	3.2	1.4	.10	0	0	0
AC-FT	17	1030	1910	3720	1960	1200	519	145	41	6.9	0	1.2

CAL YR 1965 TOTAL 10347.50 MEAN 28.3 MAX 1080 MIN .10 AC-FT 20520
WTR YR 1966 TOTAL 5317.90 MEAN 14.6 MAX 575 MIN 0 AC-FT 10550

11407500 SOUTH HONCUT CREEK NEAR BANGOR, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.60	121	5.1	247	13	169	57	28	7.5	.67	.26
2	.10	.60	504	4.9	142	13	117	52	17	2.7	1.0	.28
3	0	1.0	195	4.7	101	12	93	48	14	2.5	2.6	.24
4	0	.90	228	4.5	80	11	76	46	12	6.3	2.5	.18
5	0	.90	488	4.5	65	10	113	47	15	12	2.4	.15
6	0	6.5	325	4.4	54	10	579	35	15	4.4	2.2	.21
7	.10	8.1	114	4.0	47	9.9	232	32	12	8.9	2.6	.23
8	.10	4.0	64	4.1	40	9.7	145	30	11	5.1	2.5	.25
9	.10	3.4	42	4.1	35	9.9	107	30	9.5	3.4	1.8	.25
10	0	3.3	39	4.1	32	12	129	37	18	4.3	.37	.28
11	0	3.3	30	4.1	29	160	178	30	26	7.9	1.3	.25
12	.10	4.7	25	4.1	28	175	126	31	21	6.0	2.5	.25
13	.10	4.3	22	4.1	27	147	94	25	25	4.1	3.1	.21
14	.10	4.7	20	3.9	23	150	85	23	16	3.8	2.9	.23
15	.10	17	17	3.8	20	115	83	21	12	3.1	3.0	.23
16	.90	56	15	3.7	20	561	69	20	11	5.5	4.5	.25
17	.50	11	13	3.5	18	207	189	20	14	5.1	4.3	.31
18	.40	4.4	12	3.6	17	116	188	17	16	7.9	3.0	.46
19	.40	36	11	3.6	16	83	183	15	15	7.5	2.4	.49
20	.40	154	10	219	15	71	146	14	16	6.0	1.1	.55
21	.40	91	9.7	1630	14	67	120	13	12	4.5	.28	.55
22	.40	59	9.0	538	14	55	101	11	6.6	2.0	.21	.55
23	.40	16	8.6	145	14	115	121	11	4.8	.75	.19	.58
24	.40	8.8	8.3	240	15	68	194	10	7.9	1.7	.19	.58
25	.40	4.5	7.8	140	23	55	126	10	13	2.0	.19	.55
26	.40	3.6	7.4	161	17	49	100	9.5	14	1.6	.17	.49
27	.40	3.2	6.8	196	15	42	110	9.5	10	1.0	.17	.46
28	.50	16	6.2	560	14	44	83	9.3	13	1.1	.25	.46
29	.50	292	6.0	795	---	48	71	9.0	5.3	1.3	.25	.43
30	.50	43	5.7	507	---	79	70	8.8	6.3	2.3	.28	.43
31	.50	---	5.3	711	---	245	---	9.4	---	1.7	.26	---
TOTAL	8.30	861.80	2375.8	5920.8	1182	2762.5	4197	740.5	416.4	133.95	49.18	10.64
MEAN	.27	28.7	76.6	191	42.2	89.1	140	23.9	13.9	4.32	1.59	.35
MAX	.90	292	504	1630	247	561	579	57	28	12	4.5	.58
MIN	0	.60	5.3	3.5	14	9.7	69	8.8	4.8	.75	.17	.15
AC-FT	16	1710	4710	11740	2340	5480	8320	1470	826	266	98	21

CAL YR 1966 TOTAL 7072.80 MEAN 19.4 MAX 575 MIN 0 AC-FT 14030
WTR YR 1967 TOTAL 18658.87 MEAN 51.1 MAX 1630 MIN 0 AC-FT 37010

NOTE.--STAGE-DISCHARGE RELATION AFFECTED BY BACKWATER FROM SWIMMERS DAMS JULY TO SEPTEMBER.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.44	.76	15	4.6	74	23	17	4.4	1.4	.11	0	.80
2	1.3	.63	7.2	4.7	329	21	17	4.1	1.3	.10	0	.85
3	4.7	.60	42	4.4	141	18	14	3.8	1.3	.11	.01	1.0
4	1.9	.98	38	3.7	76	17	13	3.7	1.5	.36	.05	.91
5	1.5	1.5	69	3.5	49	16	13	3.7	1.8	.41	.06	.97
6	1.4	1.5	14	3.4	35	15	11	4.3	2.6	.25	.06	1.0
7	1.4	1.6	59	3.3	28	17	11	3.4	3.2	.21	.05	.70
8	1.3	1.4	20	3.3	23	26	10	3.2	2.5	.19	.04	.46
9	1.2	1.8	9.7	3.8	20	20	11	3.2	2.2	.16	.03	.40
10	1.2	1.8	6.7	141	19	16	10	3.1	1.9	.14	.02	.37
11	1.1	1.1	5.4	30	16	14	9.5	3.2	1.8	.11	.02	.34
12	1.1	2.1	4.8	17	13	58	9.5	3.4	1.7	.10	.02	.37
13	1.1	2.7	4.2	12	18	276	7.9	3.7	1.5	.10	.04	.43
14	1.1	3.8	3.6	52	15	159	8.2	4.8	1.4	.10	.05	.52
15	.96	3.6	3.4	307	13	86	8.3	4.5	1.3	.08	.07	.62
16	.94	2.8	3.6	56	17	219	8.7	4.0	1.1	.06	.06	.62
17	.90	2.1	3.7	30	256	127	8.7	3.8	1.2	.06	.08	.62
18	.94	2.3	4.8	21	97	82	8.0	4.7	.78	.06	.21	.52
19	.97	33	4.9	16	352	59	7.4	5.1	.77	.04	.81	.37
20	.88	7.4	4.5	13	432	46	7.1	3.3	.70	.03	1.3	.34
21	.89	4.4	4.8	11	415	38	6.9	3.1	.65	.02	1.6	.37
22	1.6	3.4	4.7	10	141	33	6.2	3.0	.58	.01	1.4	.31
23	2.0	3.1	5.0	9.0	98	29	6.3	2.9	.68	.01	1.1	.25
24	2.2	3.1	5.2	8.3	71	25	6.1	2.8	.80	.02	.84	.25
25	2.2	3.1	4.9	7.5	52	24	5.8	2.9	.37	.01	.89	.21
26	1.6	3.1	4.8	6.3	39	21	5.4	2.7	.34	.01	1.0	.15
27	1.2	3.3	4.8	5.6	34	20	4.8	2.3	.25	0	.95	.13
28	1.0	4.0	4.7	5.6	29	19	4.5	2.1	.23	.01	.90	.31
29	.84	23	4.9	45	26	19	4.7	2.1	.19	.01	.77	.11
30	.70	23	5.3	739	---	17	4.5	1.9	.14	.01	.65	.11
31	.83	---	5.1	145	---	16	---	1.5	---	0	.85	---
TOTAL	41.39	146.97	377.7	1722.0	2928	1576	265.5	104.7	36.18	2.89	13.93	14.41
MEAN	1.34	4.90	12.2	55.5	101	50.8	8.85	3.38	1.21	.093	.45	.48
MAX	4.7	33	69	739	432	276	17	5.1	3.2	.41	1.6	1.0
MIN	.44	.60	3.4	3.3	13	14	4.5	1.5	.14	0	0	.11
AC-FT	82	292	749	3420	5810	3130	527	208	72	5.7	28	29

CAL YR 1967 TOTAL 15979.03 MEAN 43.8 MAX 1630 MIN .15 AC-FT 31690
WTR YR 1968 TOTAL 7229.67 MEAN 19.8 MAX 739 MIN 0 AC-FT 14340

11407500 SOUTH HONCUT CREEK NEAR BANGOR, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.34	4.1	7.9	25	92	303	24	9.6	2.2	3.0	.16	.10
2	.55	11	6.4	20	82	174	22	9.3	2.3	2.9	.16	.09
3	.68	29	4.0	16	65	139	27	9.0	2.3	2.9	.13	.11
4	.69	13	3.5	14	56	109	22	8.6	2.2	2.9	.12	.13
5	.52	6.7	3.1	13	292	91	121	8.1	2.9	2.9	.13	.14
6	.32	5.2	2.9	11	268	81	114	7.3	3.4	2.9	.15	.13
7	.41	4.2	2.7	10	129	70	59	6.9	4.5	2.9	.21	.09
8	.68	4.1	2.6	9.2	99	62	41	6.6	4.8	2.9	.43	.07
9	.55	3.9	2.6	8.2	270	58	33	6.3	4.8	2.7	.47	.07
10	.40	3.5	44	7.5	153	54	29	6.1	4.7	2.7	.40	.05
11	.68	4.9	49	361	405	46	27	5.6	7.6	2.7	.35	.05
12	2.8	39	12	493	430	44	25	5.4	8.9	2.9	.36	.05
13	3.0	10	7.6	1910	177	41	23	5.4	6.9	3.0	.36	.07
14	2.0	4.4	192	415	258	37	23	5.2	6.0	2.6	.34	.06
15	1.6	21	212	143	895	35	21	5.1	5.7	2.5	.32	.05
16	1.3	9.0	61	90	342	34	18	4.8	5.3	2.0	.37	.06
17	1.2	4.2	24	65	182	41	17	4.5	4.6	1.1	.28	.07
18	1.2	11	16	97	161	37	17	4.1	4.5	.58	.22	.08
19	.86	10	13	1110	124	33	16	4.0	3.8	.43	.20	.12
20	.89	4.5	9.5	1350	114	35	15	4.1	3.6	.33	.18	.12
21	1.9	3.5	6.9	2020	104	58	14	4.4	4.5	.32	.16	.12
22	1.3	3.1	5.8	585	88	38	13	4.4	4.9	.29	.14	.11
23	.97	2.8	9.2	204	175	30	26	3.8	6.0	.30	.33	.11
24	.77	3.3	226	169	208	29	28	3.2	5.1	.30	.61	.08
25	.89	3.8	244	504	189	28	18	3.1	4.7	.28	.58	.08
26	.67	3.0	98	798	136	27	14	3.0	4.3	.29	.58	.08
27	.61	2.7	44	212	108	26	12	3.1	3.5	.26	.58	.06
28	.64	2.5	83	146	354	26	11	2.9	3.4	.22	.44	.05
29	.97	2.4	73	107	---	25	11	2.7	3.4	.19	.08	.05
30	1.3	8.6	37	102	---	25	10	2.7	3.3	.17	.08	.06
31	3.4	---	28	83	---	25	---	2.5	---	.16	.10	---
TOTAL	34.09	238.4	1530.7	11097.9	5956	1861	851	161.8	134.1	49.62	9.02	2.51
MEAN	1.10	7.95	49.4	358	213	60.0	28.4	5.22	4.47	1.60	.29	.084
MAX	3.4	39	244	2020	895	303	121	9.6	8.9	3.0	.61	.14
MIN	.32	2.4	2.6	7.5	56	25	10	2.5	2.2	.16	.08	.05
AC-FT	68	473	3040	22010	11810	3690	1690	321	266	98	18	5.0

CAL YR 1968 TOTAL 8466.80 MEAN 23.1 MAX 739 MIN 0 AC-FT 16790
WTR YR 1969 TOTAL 21926.14 MEAN 60.1 MAX 2020 MIN .05 AC-FT 43490

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.09	.50	.88	12	63	725	19	6.7	1.4	.88	.02	0
2	.15	.49	.88	10	53	183	19	6.2	1.3	.60	.01	0
3	.18	.52	.87	8.8	47	115	15	5.6	1.3	.58	.01	0
4	.24	.54	.87	8.2	43	159	14	5.3	1.2	.51	.01	0
5	.28	7.1	.87	7.2	39	127	12	5.1	1.1	.45	.01	0
6	.29	4.2	.87	7.2	36	95	12	5.2	1.1	.41	0	0
7	.20	2.6	.90	7.7	34	94	12	5.2	.79	.42	0	0
8	.34	2.3	1.4	8.0	32	360	12	5.2	.97	.36	0	0
9	1.2	1.5	1.9	196	30	145	12	5.5	1.9	.35	0	0
10	1.4	1.2	4.0	167	29	166	12	5.3	2.4	1.1	0	0
11	1.2	1.0	7.6	78	28	112	11	4.9	6.0	1.5	0	0
12	1.1	.94	6.7	149	70	94	11	5.0	2.7	.25	0	0
13	.93	.91	18	496	800	81	13	4.6	1.7	.24	0	0
14	1.3	.90	3.4	1260	450	69	19	4.2	2.4	.20	0	0
15	2.9	.91	2.3	227	120	61	16	3.7	1.9	.20	0	0
16	5.9	.99	1.8	1030	180	53	13	3.4	1.3	.21	0	.07
17	2.5	.96	1.6	256	350	47	12	3.2	1.1	.23	0	.10
18	1.7	.97	1.6	137	120	43	11	3.0	1.0	.19	0	.09
19	1.3	.88	124	430	80	40	11	2.9	.91	.15	0	.11
20	.96	.87	246	323	65	36	11	3.0	.74	.13	0	.13
21	.70	.85	449	1700	54	33	11	3.0	.66	.11	0	.11
22	.59	.83	63	420	47	30	11	2.8	.53	.11	0	.08
23	.55	.83	555	270	42	28	9.8	2.7	.46	.14	0	.06
24	.58	.83	1030	700	39	26	9.3	2.4	.40	.32	0	.05
25	.54	.85	182	150	37	24	8.8	2.1	.39	.30	0	.03
26	.53	.85	74	90	34	23	8.9	2.1	.46	.19	0	.03
27	.54	.86	41	450	33	22	9.4	2.1	.49	.04	0	.03
28	.56	.91	29	180	81	21	9.1	2.2	.80	.04	0	.04
29	.52	.92	22	113	---	21	8.2	4.2	1.3	.05	0	.04
30	.54	.92	17	93	---	20	7.6	4.9	1.0	.03	0	.03
31	.52	---	14	75	---	19	---	1.5	---	.02	0	---
TOTAL	30.33	38.93	2902.44	9059.1	3036	3072	360.1	123.2	39.70	10.31	.06	1.00
MEAN	.98	1.30	93.6	292	108	99.1	12.0	3.97	1.32	.33	.002	.033
MAX	5.9	7.1	1030	1700	800	725	19	6.7	6.0	1.5	.02	.13
MIN	.09	.49	.87	7.2	28	19	7.6	1.5	.39	.02	0	0
AC-FT	60	77	5760	17970	6020	6090	714	244	79	20	.1	2.0

CAL YR 1969 TOTAL 23094.65 MEAN 63.3 MAX 2020 MIN .05 AC-FT 45810
WTR YR 1970 TOTAL 18673.17 MEAN 51.2 MAX 1700 MIN 0 AC-FT 37040

NOTE.--NO GAGE-HEIGHT RECORD JAN. 21-29, FEB. 5-25.

11407700 FEATHER RIVER AT YUBA CITY, CALIF.

LOCATION.--Lat 39°08'20", long 121°36'17", in NE¼ sec.23, T.15 N., R.3 E., Yuba County, on left bank at 5th Street railroad bridge in Yuba City, 0.7 mile upstream from confluence with Yuba River and at mile 28.0.

DRAINGAGE AREA.--3,974 sq mi.

PERIOD OF RECORD.--October 1964 to September 1970. November 1943 to September 1963 (prior to July 1, 1944, stage only) published in reports of California Department of Water Resources.

GAGE.--Water-stage recorder. Datum of gage is 3.00 ft below mean sea level.

AVERAGE DISCHARGE.--6 years, 5,836 cfs (4,228,000 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 6, 1966	13,780	49.14	June 30, 1966	166
1967	Jan. 31, 1967	52,800	62.43	Oct. 27, 1966	354
1968	Feb. 21, 1968	a5,400	b50.13	July 29-31, Aug. 4, 7-18, 1968	410
1969	Jan. 23, 1969	a48,100	-	Oct. 7, 1968	1,020
1970	Jan. 17, 1970	a74,500	-	May 30, 1970	1,360

a Maximum daily.
b Backwater from Yuba River.

Period of record: Maximum discharge, 172,000 cfs (revised) Dec. 23, 1964 (gage height, 76.42 ft); minimum daily, 166 cfs June 30, 1966.

REMARKS.--Stage-discharge relation affected by backwater from Yuba River January to June 1968. Flow regulated by powerplants and reservoirs. Many diversions above station for irrigation. Discharge figures computed as differences between Feather River below Shanghai Bend and Yuba River near Marysville. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

COOPERATION.--Gage-height record and 52 discharge measurements furnished by California Department of Water Resources.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2710	2970	3270	4210	3660	3060	7490	3470	430	211	804	515
2	2700	2840	3180	3750	4530	2960	8110	3380	470	290	828	485
3	2470	3010	3150	3470	3780	2830	8440	3360	510	358	717	526
4	2430	3020	3120	3540	3240	2690	8020	3470	440	410	616	610
5	2370	2870	3090	9720	3640	2600	7380	3760	400	440	586	538
6	2560	2760	3090	12100	4490	2580	7340	4120	450	568	580	562
7	2510	2740	3060	8590	4530	2610	7320	4180	420	622	526	780
8	2480	2820	3040	6820	3870	2820	7280	4170	420	574	532	724
9	2550	2740	3040	6060	3420	3040	7110	4200	440	580	574	820
10	2480	2540	3040	5390	3130	3730	8900	4370	410	634	598	752
11	2480	2570	3050	4780	2920	5360	11200	4980	350	717	647	773
12	2220	2600	3190	4270	2740	5650	10400	4940	340	710	647	759
13	2070	2770	3260	3930	2620	6050	9180	4460	350	724	682	689
14	2070	3130	3180	3730	2560	8690	7690	4020	290	717	717	654
15	2130	4130	3090	3530	2460	8350	7000	3760	460	710	731	773
16	2570	3920	3010	3340	2420	7810	6660	3320	310	724	745	938
17	2780	3600	2970	3290	2370	6840	6690	2900	244	738	574	1010
18	2880	5240	2960	3210	2340	5920	6910	2740	234	759	460	1060
19	2810	7350	2910	3120	2400	5400	6420	2460	244	724	366	1060
20	2910	5980	2870	3070	2720	5060	5640	2270	262	717	334	1030
21	2910	5300	2860	3040	2760	4730	4560	2200	238	696	318	1050
22	2820	4650	2820	2980	2680	4370	4060	2010	241	689	306	1060
23	2700	4250	2860	2900	2680	4080	3730	1750	220	654	283	1140
24	2670	4200	2950	2870	2970	3870	3730	1460	184	610	262	1200
25	2690	4980	3660	2830	3410	3830	3890	1200	181	610	266	1160
26	2690	4940	3930	2780	3590	4040	4170	890	184	647	280	1160
27	2800	4600	3380	2740	3610	4410	4260	750	190	610	298	1060
28	2740	4250	3290	2480	3260	4970	4060	850	172	598	334	1000
29	2800	3970	5260	2230	---	5530	3750	770	169	640	370	954
30	2790	3640	5300	3800	---	6350	3620	560	166	654	375	970
31	2770	---	4830	4450	---	7050	---	460	---	752	435	---
TOTAL	80560	114380	102710	133020	88800	147280	195010	87230	9419	19087	15791	25812
MEAN	2599	3813	3313	4291	3171	4751	6500	2814	314	616	509	860
MAX	2910	7350	5300	12100	4530	8690	11200	4980	510	759	828	1200
MIN	2070	2540	2820	2230	2340	2580	3620	460	166	211	262	485
AC-FT	159800	226900	203700	263800	176100	292100	386800	173000	18680	37860	31320	51200

CAL YR 1965 TOTAL 2314540 MEAN 6341 MAX 60500 MIN 1070 AC-FT 4591000
WTR YR 1966 TOTAL 1019099 MEAN 2792 MAX 12100 MIN 166 AC-FT 2021000

11407700 FEATHER RIVER AT YUBA CITY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	796	668	9270	4900	42700	6660	13200	8840	14400	4590	1430	1700
2	796	689	13400	5000	30000	6710	11500	8660	13100	4510	1720	1690
3	836	850	22900	4720	21600	6630	10600	8460	11700	4250	1490	1860
4	844	954	17600	4780	16400	6580	10100	8680	11200	4140	1520	1750
5	836	922	19400	4830	13800	6320	9830	8980	10800	3730	1380	1720
6	668	1070	25700	4690	12400	6120	12900	9110	11500	3470	1190	1700
7	616	1690	20500	4690	11400	6080	17100	9370	11600	3290	956	1690
8	675	1800	13400	4660	10500	6150	13400	11400	11300	3130	968	1950
9	703	1560	10500	4720	10200	6140	11600	14000	11100	2140	1240	1770
10	731	1540	9400	4500	9630	6150	11000	16300	11200	1970	1110	1800
11	773	1560	9030	4430	9340	7420	11700	16200	11200	2690	997	1920
12	759	1570	8360	4300	9130	8390	11100	13800	13200	3030	978	1830
13	610	1740	7780	4190	9060	9260	10000	12300	11200	3040	1040	1760
14	598	1640	7130	4410	9320	8200	9930	11400	11100	2960	960	1800
15	634	1810	7060	4430	9290	7240	9930	11700	10600	2740	1030	1920
16	640	5260	6680	4300	8710	13600	9630	13500	10300	2040	1080	2110
17	682	6880	5920	4330	8330	32100	9190	16000	10300	1760	1260	2490
18	675	3290	5660	4160	8100	32600	11400	17600	10400	2230	1400	2680
19	654	2620	5100	3940	7900	28800	10900	18400	10500	2660	1430	2830
20	616	7720	5100	3800	7640	25300	11200	19000	10700	2420	1580	2590
21	520	11300	5680	14900	7530	20500	10600	20300	9910	2640	1660	2640
22	440	8940	6040	41700	7320	17800	10200	21700	8930	2330	1570	2900
23	405	6490	5900	33400	7180	17200	9730	22400	8380	1570	1480	2900
24	415	5300	5740	19100	7000	19300	10600	22800	7430	1350	1500	2660
25	400	4590	5620	15800	7110	17200	10800	23200	6870	1700	1220	2600
26	405	3400	5010	12100	7080	14900	10100	22400	6650	2300	914	2750
27	354	2860	4790	12300	6870	13200	9800	20900	6420	2220	1110	2930
28	405	2880	4830	14800	6680	12000	9970	19200	5700	1990	1200	3070
29	538	8000	5020	28700	---	11700	9530	17700	5160	1930	1490	2740
30	586	14400	5070	46400	---	11000	9190	16300	4740	1360	1760	1880
31	610	---	4880	50800	---	12200	---	15100	---	1170	1700	---
TOTAL	19220	113993	288470	379780	322220	403450	326730	475700	297590	81350	40363	66630
MEAN	620	3800	9305	12250	11510	13010	10890	15350	9920	2624	1302	2221
MAX	844	14400	25700	50800	42700	32600	17100	23200	14400	4590	1760	3070
MIN	354	668	4790	3800	6680	6080	9190	8460	4740	1170	914	1690
AC-FT	38120	226100	572200	753300	639100	800200	648100	943600	590300	161400	80060	132200

CAL YR 1966 TOTAL 1143132 MEAN 3132 MAX 25700 MIN 166 AC-FT 2267000
WTR YR 1967 TOTAL 2815496 MEAN 7714 MAX 50800 MIN 354 AC-FT 5585000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1550	2860	1340	1030	2960	1520	1050	2180	2920	961	412	945
2	2000	3200	1260	1030	1700	1480	1070	2410	2750	637	420	951
3	3900	3470	1270	1030	1500	1470	1150	3510	2700	585	415	952
4	4140	3270	1420	1020	1350	1460	1210	4470	2540	529	410	951
5	3650	2480	1540	1020	1250	1420	1190	4560	2260	563	412	966
6	3430	2090	1420	1070	1220	1360	1180	4550	1900	507	413	986
7	3240	2940	1400	1130	1210	1310	1170	3690	1310	471	410	1020
8	3180	2770	1390	1160	1200	1310	1160	3210	1090	477	410	1040
9	2990	1530	1270	1230	1180	1340	1150	3000	1070	448	410	1080
10	2550	1360	1220	1440	1170	1300	1150	2060	1060	440	410	1090
11	2600	1320	1190	1660	1170	1100	1130	1300	1050	452	410	1080
12	2030	1420	1140	1390	1200	1080	1110	1240	1040	456	410	1130
13	1610	1920	1130	1220	2780	1300	1090	1800	990	457	410	1170
14	2300	2310	1120	1240	4370	2300	1070	3430	995	484	410	1140
15	2610	1450	1120	1970	2430	2000	1030	2480	1250	545	410	1130
16	2590	1280	1150	2090	1680	1820	990	1750	1520	473	410	1110
17	2440	1140	1160	1740	1500	2500	1010	2470	1530	438	410	1260
18	2540	1080	1210	1580	1350	3050	1040	3370	1480	431	410	1100
19	2240	1150	1170	1390	2000	2500	1040	3390	1460	433	501	1060
20	2390	1200	1150	1290	4100	1900	1040	3240	1630	440	706	1080
21	2360	1150	1130	1210	5400	1600	1050	2000	1730	440	741	1100
22	1790	1140	1130	1180	5200	1500	1100	2300	1830	437	743	1100
23	1930	1130	1070	1150	4500	1390	1380	3220	2080	429	769	1090
24	2000	1120	1040	1110	3700	1300	1490	3520	2060	420	772	1070
25	2430	1400	1030	1090	3000	1250	1480	3650	1840	420	751	1070
26	2360	1460	1040	1080	2350	1190	1450	3720	1410	420	773	1090
27	2660	1480	1060	1100	1890	1140	1470	3800	1130	420	955	1090
28	2520	1510	1030	1130	1650	1100	1520	3750	1030	415	966	1100
29	1910	1510	1040	1380	1590	1080	1590	3650	982	410	958	1090
30	1730	1380	1040	2300	---	1070	1800	3240	1030	410	940	1100
31	2310	---	1020	4500	---	1050	---	3120	---	410	935	---
TOTAL	77980	53520	36700	43960	66600	47190	36360	94080	47667	14858	17912	32141
MEAN	2515	1784	1184	1418	2297	1522	1212	3035	1589	479	578	1071
MAX	4140	3470	1540	4500	5400	3050	1800	4560	2920	961	966	1260
MIN	1550	1080	1020	1020	1170	1050	990	1240	982	410	410	945
AC-FT	154700	106200	72790	87190	132100	93600	72120	186600	94550	29470	35530	63750

CAL YR 1967 TOTAL 2562013 MEAN 7019 MAX 50800 MIN 914 AC-FT 5082000
WTR YR 1968 TOTAL 568968 MEAN 1555 MAX 5400 MIN 410 AC-FT 1129000

11407700 FEATHER RIVER AT YUBA CITY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1090	1290	1190	1310	26700	14300	4740	10500	6190	1240	4030	6890
2	1050	1320	1180	1240	14500	15200	5080	10100	5980	1240	3990	6900
3	1050	1500	1170	1180	11000	14100	7520	8870	4400	1220	3990	7020
4	1060	1530	1150	1210	9900	13300	11600	8090	4240	1220	4010	6980
5	1070	1470	1150	1190	10800	12000	13400	8050	3960	1170	5280	7020
6	1050	1430	1150	1150	11900	10900	14400	8040	3430	1490	5910	7000
7	1020	1380	1140	1140	12900	10500	14900	8040	2830	1900	5910	7030
8	1030	1340	1140	1120	11700	9380	14300	7980	2020	1870	6460	7020
9	1030	1330	1150	1140	10700	8400	14500	7890	1560	1870	6470	7030
10	1030	1340	1230	1120	13400	8010	15100	7920	1480	2290	5740	7000
11	1060	1330	1460	1200	16500	6370	15300	8060	1490	2330	5900	6980
12	1140	1380	1390	2760	22200	5430	15200	8150	1490	2280	6490	6980
13	1200	1350	1320	8900	26200	5090	15200	8100	1470	2290	6520	6970
14	1200	1350	1690	16000	19800	4820	15200	9090	1460	2320	6520	6950
15	1200	1450	2130	5000	15300	4620	15500	10500	1440	2290	6500	6950
16	1390	1440	2380	3020	21100	4600	16000	11000	1390	2280	6470	6970
17	1410	1290	1760	2350	19600	5020	16100	10900	1400	2220	6500	6950
18	1390	1290	1640	2110	18000	5300	15900	10900	1380	2090	6540	7000
19	1370	1360	1860	3680	16800	5460	15700	10900	1370	2060	6570	6980
20	1360	1330	1640	5800	14300	6910	15800	10900	1370	2100	6620	6940
21	1350	1280	1430	9800	12300	7950	15000	10800	1520	2120	6600	6890
22	1340	1220	1440	41400	12300	10300	14700	10500	1620	2090	6600	6870
23	1340	1200	1460	48100	12000	10600	14600	9450	1700	2520	6680	6900
24	1340	1190	1720	41600	12500	10000	14800	8130	1650	3490	6660	6860
25	1320	1170	2480	31300	13800	6450	13900	7990	1600	4050	6650	6860
26	1290	1150	2490	21800	14200	5970	13800	7800	1500	4060	6790	6870
27	1300	1150	1920	40700	13400	5760	14000	6360	1400	4090	6760	6780
28	1290	1150	1580	41300	12500	5450	14300	6200	1250	4060	6820	5980
29	1340	1150	1700	40200	---	5240	13100	6150	1300	4050	6870	5040
30	1430	1190	1590	38800	---	5410	12200	6210	1250	4060	6870	4050
31	1340	---	1420	37500	---	5290	---	6240	---	4060	6890	---
TOTAL	37880	39350	48150	455120	426300	248130	411840	269810	65140	76420	190610	202660
MEAN	1222	1312	1553	14680	15230	8004	13730	8704	2171	2465	6149	6755
MAX	1430	1530	2490	48100	26700	15200	16100	11000	6190	4090	6890	7030
MIN	1020	1150	1140	1120	9900	4600	4740	6150	1250	1170	3990	4050
AC-FT	75130	78050	95510	902700	845600	492200	816900	535200	129200	151600	378100	402000

CAL YR 1968 TOTAL 526148 MEAN 1438 MAX 5400 MIN 410 AC-FT 1044000
WTR YR 1969 TOTAL 2471410 MEAN 6771 MAX 48100 MIN 1020 AC-FT 4902000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3370	3310	3550	16900	30000	8430	3680	1920	1980	1990	2720	4150
2	3260	3240	3700	15700	23000	18000	3380	2040	1940	1940	2850	4320
3	3250	3250	3690	13800	16900	16200	3310	1890	1560	1880	3100	4350
4	3260	3300	3730	13100	14200	14400	3210	1980	1850	1890	3400	4370
5	3200	3340	3830	10700	11300	15700	3120	2010	2210	1890	3700	4360
6	3160	3380	3850	5540	9940	15500	3090	2050	2140	1850	3870	4370
7	3180	3370	3860	4570	11200	14500	2960	2430	2010	1820	3940	4350
8	3170	3360	4130	4430	10400	14600	2920	2610	2010	1810	3940	4060
9	3170	3300	4240	4510	10000	16100	2870	2020	2160	1840	3940	4170
10	3160	3290	4320	5610	10000	15200	2900	1800	1760	1900	4010	4270
11	3130	3340	4650	9260	9590	16500	2900	1780	1990	1830	4100	4240
12	3130	3340	5230	11300	9510	15800	2840	1910	1970	1840	4280	4300
13	3280	3350	5750	12400	9580	15200	2840	1990	1880	1870	4320	4250
14	3020	3370	6270	17700	13800	13500	2750	1870	1870	1860	4320	4270
15	3020	3370	6360	52700	16400	13000	2660	1950	1880	1890	4470	4190
16	3200	3490	6340	63400	14400	12500	2590	1940	1810	1900	4490	4140
17	3180	3720	6240	74500	13800	9490	2580	1860	1770	1920	4490	4140
18	3190	3740	6160	72300	16000	9550	2470	2330	1780	1940	4480	4120
19	3140	3750	6240	66700	15300	8760	2270	1940	1820	1920	4480	4150
20	3200	3750	6650	62400	15000	6960	2200	2190	1800	1800	4510	4080
21	3240	3750	7430	35600	14300	4070	2200	2000	1790	1930	4240	4580
22	3260	3760	8480	35800	14500	3730	2190	2020	1810	2020	4410	4320
23	3280	3760	6630	60700	14400	3300	2200	2000	1790	2030	4390	4200
24	3280	3750	5100	53100	13800	3160	2220	1930	1770	2020	4330	4210
25	3260	3750	22300	69400	14700	2930	2120	1940	1780	2040	4240	4160
26	3260	3610	24700	68600	11000	3100	2050	1990	1920	2060	4420	4170
27	3260	3560	23500	64000	9450	3140	2090	2130	1940	2110	4470	4230
28	3290	3550	22400	65900	9320	2990	1410	1870	1890	2160	4540	4060
29	3300	3570	21900	51600	---	3070	1950	1890	1940	2360	4520	3760
30	3280	3550	21700	48000	---	3040	1860	1360	1950	2510	4510	2930
31	3310	---	21200	39400	---	3300	---	1610	---	2580	4890	---
TOTAL	99690	104970	284130	1129620	381790	305720	77830	61250	56770	61400	128370	125270
MEAN	3216	3499	9165	36440	13640	9862	2594	1976	1892	1981	4141	4176
MAX	3370	3760	24700	74500	30000	18000	3680	2610	2210	2580	4890	4580
MIN	3020	3240	3550	4430	9320	2930	1410	1360	1560	1800	2720	2930
AC-FT	197700	208200	563600	2241000	757300	606400	154400	121500	112600	121800	254600	248500

CAL YR 1969 TOTAL 2834820 MEAN 7767 MAX 48100 MIN 1120 AC-FT 5623000
WTR YR 1970 TOTAL 2816810 MEAN 7717 MAX 74500 MIN 1360 AC-FT 5587000

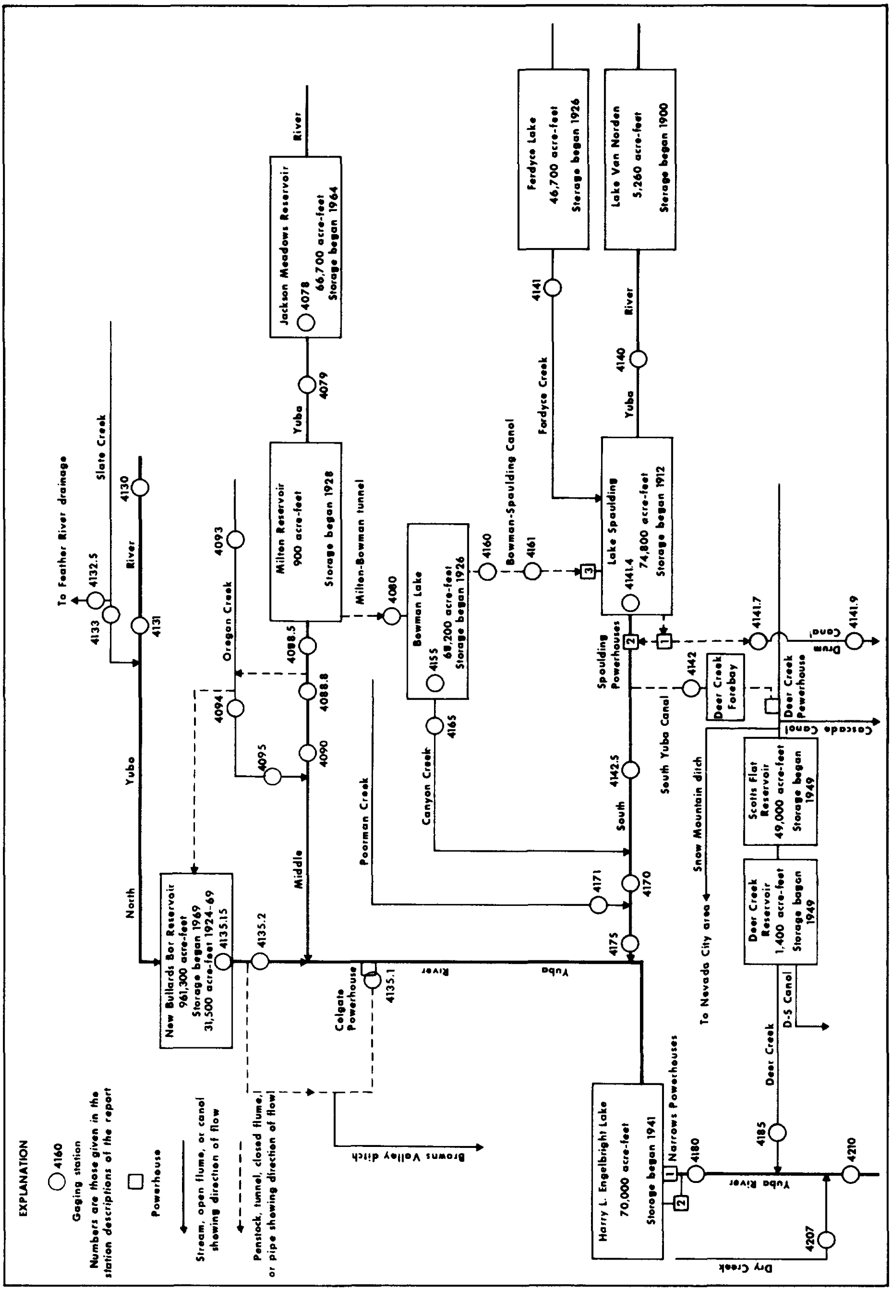

EXPLANATION
4160
Gaging station
Numbers are those given in the station descriptions of the report
Powerhouse
Stream, open flume, or canal showing direction of flow
Penstock, tunnel, closed flume, or pipe showing direction of flow
To Feather River drainage
4132.5
4133
Slate Creek
4130
River
4131
North
Yuba
New Bullards Bar Reservoir
961,300 acre-feet
Storage began 1969
31,500 acre-feet 1924-69
4135.15
4135.2
Oregon Creek
4093
4094
4095
Middle
4090
4088.8
4088.5
Milton Reservoir
900 acre-feet
Storage began 1928
Yuba
4079
Jackson Meadows Reservoir
4078
66,700 acre-feet
Storage began 1964
River
Milton-Bowman tunnel
4080
Bowman Lake
4155
68,200 acre-feet
Storage began 1926
4165
Canyon Creek
Poorman Creek
4160
Bowman-Spaulding Canal
4161
3
Fordyce Creek
4141
Fordyce Lake
46,700 acre-feet
Storage began 1926
Lake Van Norden
5,260 acre-feet
Storage began 1900
Yuba
4140
River
Lake Spaulding
4141.4
74,800 acre-feet
Storage began 1912
Spaulding Powerhouses
2
1
4141.7
Drum Canal
4141.9
4142
Deer Creek Forebay
Deer Creek Powerhouse
Cascade Canal
South Yuba Canal
4142.5
South
4171
4170
4175
Colgate Powerhouse
4135.1
River
Yuba
Browns Valley ditch
Snow Mountain ditch
To Nevada City area
Scotts Flat Reservoir
49,000 acre-feet
Storage began 1949
Deer Creek Reservoir
1,400 acre-feet
Storage began 1949
D-S Canal
Deer Creek
4185
Harry L. Englebright Lake
70,000 acre-feet
Storage began 1941
Narrows Powerhouses
1
2
4180
Yuba River
4210
4207
Dry Creek

FIGURE 6.--Schematic diagram showing diversions and storage in Yuba River basin.

11407800 JACKSON MEADOWS RESERVOIR NEAR SIERRA CITY, CALIF.

LOCATION.--Lat 39°30'40", long 120°33'15", in NW¼SE¼ sec.18, T.19 N., R.13 E., Sierra County, Tahoe National Forest, on right bank at Jackson Meadows Dam on Middle Yuba River, 0.7 mile downstream from Pass Creek and 5.7 miles southeast of Sierra City.

DRAINAGE AREA.--37.6 sq mi (revised).

PERIOD OF RECORD.--November 1964 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Nevada Irrigation District).

EXTREMES.--*Maximums and minimums (contents in acre-feet, elevation in feet) for the water years 1966-70 are contained in the following table:*

	Maximum			Minimum		
Wtr yr	Date	Contents	Elevation	Date	Contents	Elevation
1966	*June 13, 1966*	*69,800*	*6,036.6*	*Nov. 30, 1965*	*29,000*	*5,991.8*
1967	Oct. 1-5, 1966	67,300	6,034.2	Jan. 6, 1967	22,700	5,982.7
1968	June 11-18, 1968	69,900	6,036.7	Sept.30, 1968	31,000	5,994.6
1969	June 13-16, 1969	71,000	6,037.7	Oct. 21 to Nov. 1, 1968	20,300	5,978.7
1970	May 17, 18, 1970	71,000	6,037.7	Dec. 2-8, 1969	21,400	5,980.7

Period of record: Maximum contents, 71,000 acre-ft June 13-16, 1969, May 17, 18, 1970 (elevation, 6,037.7 ft); minimum since reservoir first filled, 20,300 acre-ft Oct. 21 to Nov. 1, 1968 (elevation, 5,978.7 ft).

REMARKS.--Reservoir is formed by an earthfill dam. Storage began Nov. 9, 1964. Usable capacity, 66,700 acre-ft between elevations 5,933.0 (bottom of intake tower) and 6,036.0 ft (top of spillway Tainter gates). Dead storage, 2,500 acre-ft. Records, including extremes, represent total contents. See schematic diagram of Yuba River basin elsewhere in this report.

Capacity table, water years 1966-70 *(elevation, in feet, and contents, in acre-feet)*

5,970	15,400	6,000	35,300	6,030	63,000
5,980	21,000	6,010	43,900	6,040	73,500
5,990	27,600	6,020	53,200		

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61600	45700	---	---	---	30900	33900	49600	69200	69300	68800	67900
2	61200	45300	---	---	---	31000	34400	50400	69400	69300	68800	67900
3	60900	44800	---	---	---	31000	34900	51200	69500	69300	68800	67900
4	60500	44000	---	---	---	31000	35300	52100	69600	69300	68800	67900
5	60200	43600	---	---	---	31000	35800	53200	69600	69300	68800	67900
6	59800	42900	---	---	---	31000	36400	54300	69700	69300	68800	67800
7	59400	42200	---	29800	---	31000	37000	55100	69600	69300	68700	67800
8	59300	41600	---	---	---	31000	37600	56000	69700	69300	68700	67800
9	59300	40900	---	---	30400	31200	38100	56200	69600	69200	68700	67700
10	59300	40200	---	---	30400	31300	38700	58600	69700	69200	68600	67700
11	58900	39500	---	---	30500	31300	39100	59500	69700	69200	68600	67700
12	58200	38900	---	---	30500	31500	39500	60300	69700	69200	68600	67600
13	57400	38300	---	---	30500	31600	39700	60900	69700	69200	68600	67600
14	56800	---	---	---	30500	31600	40200	61600	69700	69200	68500	67500
15	56200	---	---	---	30500	31700	40500	62200	69600	69100	68500	67600
16	55400	---	---	---	30500	31700	41100	62700	69600	69100	68500	67600
17	54800	---	---	---	30600	31800	41800	63300	69600	69100	68500	67500
18	54000	---	---	---	30600	31900	42400	63800	69600	69100	68400	67500
19	53300	---	---	---	30700	32000	42900	64400	69600	69100	68400	67500
20	52500	---	---	---	30700	32000	43300	65000	69500	69100	68400	67500
21	51800	---	---	---	30700	32000	43600	65600	69500	69100	68400	67500
22	51200	---	---	---	30700	32000	44000	66100	69400	69000	68300	67500
23	50500	---	---	---	30700	32100	44500	66500	69400	69000	68300	67500
24	49900	---	---	---	30700	32000	45000	66900	69400	69000	68300	67400
25	49300	---	---	---	30800	32300	45700	67300	69400	69000	68200	67400
26	49300	---	---	---	30800	32400	46500	67700	69400	68900	68200	67400
27	49000	---	---	---	30800	32500	47000	68000	69400	68900	68200	67300
28	48300	---	---	---	30900	32700	47700	68400	69400	68900	68000	67300
29	47700	---	---	---	---	32900	48300	68600	69400	68900	68000	67300
30	46900	29000	---	---	---	33200	49000	68900	69400	68800	67900	67300
31	46400	---	29500	30200	---	33500	---	69000	---	68900	67900	---
MAX	61600					33500	49000	69000	69700	69300	68800	67900
MIN	46400					30900	33900	49600	69200	68800	67900	67300
(†)	6012.6	5991.8			5994.4	5997.7	6015.5	6035.8	6036.2	6035.7	6034.8	6034.2
(‡)	-15500	-17400	+500	+700	+700	+2600	+15500	+20000	+400	-500	-1000	-600

CAL YR 1965 MAX MIN ‡ -6100
WTR YR 1966 MAX 69000 MIN 29500 ‡ +5500

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.
NOTE.--NO ELEVATION RECORD DEC. 1 TO JAN. 6, JAN. 8 TO FEB. 8.

11407800 JACKSON MEADOWS RESERVOIR NEAR SIERRA CITY, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67300	59100	40900	---	25900	---	39800	43100	57200	57800	65600	51100
2	67300	58200	40600	---	26000	29100	40000	43100	56800	57600	65100	50500
3	67300	57400	40100	---	26200	29200	40200	43200	56700	57900	64700	50100
4	67300	56600	39600	23500	26300	29300	40300	43300	56800	58800	64300	49500
5	67300	55900	39400	22800	---	29500	40500	43900	57100	59600	64000	49000
6	67200	55200	39000	22700	---	29500	40700	44000	57300	60300	63700	48500
7	67200	54600	38600	22800	---	29700	40900	44300	57500	60900	63300	47900
8	67200	53800	38100	22900	26800	29800	41100	44800	57600	61400	63000	47500
9	67200	53100	37500	22900	26900	30000	41300	45300	57700	61900	62700	46800
10	67200	52300	37000	22900	27000	30100	41400	45700	57700	62300	62300	46400
11	67200	51700	36400	23000	27100	30400	41700	46000	57700	62700	61900	45800
12	67100	50900	---	23000	27300	30600	41700	46300	58000	63400	61500	45300
13	67000	50300	---	23000	---	30800	41700	46600	58000	63700	61100	44800
14	67000	49600	---	23100	---	31000	41900	46900	58000	64000	60700	44300
15	67000	49000	---	23200	---	31300	42000	47600	58000	64300	60200	43900
16	67000	48700	---	23200	---	32700	42100	48400	58300	64500	59700	43300
17	67000	48000	---	23200	---	34200	42200	49600	58600	64700	59200	42900
18	66800	47300	---	23300	---	35100	42300	50800	58800	64900	58600	42300
19	66700	46800	---	23300	---	35800	42300	52100	58900	65000	58100	41700
20	66600	46600	---	23300	---	36300	42400	53500	58900	65100	57500	41300
21	66400	46000	---	23600	---	36800	42500	55500	58800	65200	57000	40700
22	66100	45400	---	23800	---	37100	42600	57000	58600	65400	56400	40200
23	65800	44800	---	23800	---	37400	42600	57900	58400	65400	56000	39600
24	65400	43900	---	24000	---	37700	42700	58300	58300	65500	55400	39100
25	64700	43300	---	24300	---	38100	42700	58400	58400	65500	55000	38600
26	63900	42700	---	24300	---	38300	42800	58400	58300	65600	54500	38100
27	63100	42000	---	24500	---	38500	42900	58400	58100	65700	54000	37600
28	62400	41800	---	24700	28900	38800	43000	58300	58000	65600	53500	37100
29	61600	41700	---	25000	---	39000	43100	58100	58000	65700	52600	36500
30	60800	41300	---	25200	---	39300	43100	57900	57900	65800	52100	36000
31	59900	---	25500	25600	---	39500	---	57600	---	65800	51600	---
MAX	67300	59100					43100	58400	59800	65800	65600	51100
MIN	59900	41300					39800	43100	56700	57600	51600	36000
(†)	6026.9	6007.0		5987.1		6004.9	6009.1	6024.6	6024.9	6032.7	6018.3	6000.8
(‡)	-7400	-18600	-15800	+100	+3300	+10600	+3600	+14500	+300	+7900	-14200	-15600

CAL YR 1966 MAX 69700 MIN 25500 ‡ -4000
WTR YR 1967 MAX 67300 MIN 22700 ‡ -31300

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35300	31700	---	---	34400	42300	48400	60000	68500	69500	64100	47300
2	35000	31700	---	---	34500	42500	48700	60700	68400	69500	63600	46700
3	34500	31700	---	---	34600	42800	48900	61500	68600	69500	63100	46100
4	34000	31600	---	32600	34700	43100	49100	62300	68800	69500	62500	45600
5	33500	31600	---	32600	34700	43400	49300	63000	69000	69500	61900	45000
6	33000	31600	---	32600	34800	43600	49600	63600	69300	69500	61400	44500
7	32500	31600	---	32600	34900	43900	49800	64300	69500	69500	60800	43900
8	32000	31600	---	32700	34900	44100	50100	64800	69700	69400	60200	43300
9	31700	31600	---	32700	34900	44300	50100	65500	69800	69400	59700	42700
10	31700	31600	---	32800	35000	44500	50900	66000	69800	69400	59100	42200
11	31700	31600	---	32900	35000	44700	51400	66500	69900	69400	58500	41600
12	31700	31600	---	32900	35000	44800	51800	67000	69900	69400	57800	41100
13	31700	31600	---	32900	35100	45000	52200	67100	69900	69300	57300	40500
14	31700	31700	---	33000	35100	45200	52700	67300	69900	69300	56700	40000
15	31700	31700	---	33300	35200	45300	53200	67500	69900	69300	56200	39400
16	31700	31700	---	33400	35200	45600	53600	67700	69900	69300	55600	38900
17	31700	---	---	33400	35300	45700	53800	67900	69900	69300	55200	38300
18	31700	---	---	33400	35600	45800	54200	68300	69900	69300	54700	37700
19	31700	---	---	33400	36000	45900	54500	68600	69800	69300	54400	37100
20	31700	---	---	33400	36800	46000	54800	69000	69800	69300	53900	36600
21	31700	---	---	33500	37700	46100	55100	69200	69800	69300	53400	36000
22	31700	---	---	33500	38400	46200	55400	69000	69800	69200	52900	35400
23	31700	---	---	33600	39500	46300	55700	68800	69800	68900	52300	34900
24	31700	---	---	33600	40200	46500	56100	68600	69700	68500	51800	34300
25	31700	---	---	33600	40600	46700	56400	68600	69700	68000	51200	33800
26	31700	---	---	33700	41000	46700	56800	68500	69700	67500	50600	33200
27	31700	---	---	33900	41400	46900	57300	68400	69700	67000	50100	32700
28	31700	---	---	34000	41600	47100	57900	68400	69500	66400	49500	32100
29	31700	---	---	34100	42000	47300	58600	68500	69500	65800	49000	31600
30	31700	32000	---	34300	---	47700	59300	68600	69500	65000	48400	31000
31	31700	---	32500	34400	---	48000	---	68600	---	64600	47900	---
MAX	35300				42000	48000	59300	69200	69900	69500	64100	47300
MIN	37100				34400	42300	48400	60000	68400	64600	47900	31000
(†)	5995.4			5998.8	6007.8	6014.5	6026.3	6035.4	6036.3	6031.6	6014.4	5994.6
(‡)	-4300	+300	+500	+1900	+7600	+6000	+11300	+9300	+900	-4900	-16700	-16900

CAL YR 1967 MAX 65800 MIN 22700 ‡ +7000
WTR YR 1968 MAX 69900 MIN 31000 ‡ +5000

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.
NOTE.--NO ELEVATION RECORD NOV. 17 TO JAN.3.

11407800 JACKSON MEADOWS RESERVOIR NEAR SIERRA CITY, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30500	20300	22400	24000	35000	39000	42600	55400	60600	70000	69400	57900
2	30000	20400	22400	24000	35300	39200	43000	55400	62300	70000	69400	57400
3	29500	20500	22400	24000	35500	39300	43300	55300	64100	70000	69400	56900
4	28900	20700	22400	24000	35700	39400	43600	55200	65900	70000	69400	56400
5	28300	20700	22400	24000	35900	39500	44000	55400	67500	70000	69400	56000
6	27800	20700	22400	24100	36100	39500	44200	55700	69000	70000	69400	55600
7	27200	20800	22500	24200	36200	39600	44500	55900	70200	70000	69400	55000
8	26600	20800	22500	24200	36300	39600	44800	56100	70700	70000	69400	54500
9	26100	20800	22600	24200	36400	39700	44900	56300	70800	70000	69400	54000
10	25500	20800	22700	24200	36600	39800	45200	56400	70800	70000	69300	53500
11	25000	21000	22800	24400	36800	39900	45500	56500	70800	69900	69300	53000
12	24500	21200	22800	24400	36800	39900	45800	56500	70900	69900	68900	52400
13	24100	21300	22900	24700	37000	40000	46300	56400	71000	69900	68000	51800
14	23600	21300	22900	24800	37200	40100	46700	56300	71000	69800	67500	51400
15	23100	21400	23100	24900	37400	40200	47000	56100	71000	69800	66100	50800
16	22500	21400	23100	25000	37500	40200	47400	56200	71000	69700	65600	50300
17	22000	21400	23100	25000	37600	40200	47800	56400	70900	69700	65000	49800
18	21500	21600	23200	25100	37700	40300	48300	56400	70900	69600	64600	49200
19	21000	21800	23200	25900	37800	40400	48900	56300	70900	69600	64100	48700
20	20500	21800	23300	28000	37900	40500	49500	56200	70800	69600	63700	48200
21	20300	21800	23300	29800	38000	40600	50300	56200	70700	69600	63200	47700
22	20300	21900	23300	30400	38100	40700	51300	56400	70600	69600	62700	47100
23	20300	22000	23400	30900	38300	40700	52400	56500	70500	69500	62300	46700
24	20300	22100	23600	31300	38400	40800	53100	56400	70500	69500	61700	46100
25	20300	22100	23700	32000	38700	40900	53700	56400	70400	69500	61200	45600
26	20300	22100	23700	33100	38800	40900	54000	56400	70300	69500	60800	45000
27	20300	22200	23800	33600	38900	41100	54500	56400	70200	69500	60300	44500
28	20300	22100	23800	34000	39000	41300	54900	56300	70200	69500	59800	43900
29	20300	22200	23800	34400	---	41500	55100	56300	70000	69400	59300	43400
30	20300	22300	23900	34600	---	41800	55300	57000	70000	69400	58800	42900
31	20300	---	23900	34900	---	42200	---	58900	---	69400	58300	---
MAX	30500	22300	23900	34900	39000	42200	55300	58900	71000	70000	69400	57900
MIN	20300	20300	22400	24000	35000	39000	42600	55200	60600	69400	58300	42900
(†)	5978.7	5982.1	5984.6	5999.4	6004.3	6008.0	6022.2	6025.9	6036.8	6036.2	6025.3	6008.8
(‡)	-10700	+2000	+1600	+11000	+4100	+3200	+13100	+3600	+11100	-600	-11100	-15400

CAL YR 1968 MAX 69900 MIN 20300 ‡ -8600
WTR YR 1969 MAX 71000 MIN 20300 ‡ +11900

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42300	32500	21700	30100	54900	54600	57500	65200	70600	69600	69200	63300
2	41700	32500	21400	30200	54900	54500	57800	65600	70600	69600	69100	62700
3	41200	32500	21400	30400	54800	54500	58000	66100	70600	69600	69100	62100
4	40500	32500	21400	30400	54700	54500	58300	66600	70600	69600	69100	61500
5	40200	32600	21400	30500	54700	54500	58500	67200	70500	69600	69100	61000
6	39600	32700	21400	30500	54700	54500	58800	67800	70500	69500	69000	60500
7	39000	32700	21400	30700	54700	54500	59100	68500	70400	69500	69000	60000
8	38400	32700	21400	30700	54700	54500	59400	69000	70400	69500	69000	59500
9	37900	32700	21500	31200	54600	54500	59800	69500	70300	69500	69000	59000
10	37300	32400	21500	31500	54600	54500	60200	70000	70300	69500	69000	58500
11	36800	32000	21600	31700	54600	54500	60600	70200	70300	69500	68900	57900
12	36300	31500	21600	32000	54700	54500	61000	70200	70200	69500	68900	57500
13	35800	31000	21600	32300	54700	54500	61300	70300	70200	69500	68900	56900
14	35300	30400	21600	32900	54700	54600	61500	70400	70000	69500	68900	56400
15	34900	30000	21600	33200	54600	54600	61800	70600	70000	69500	68900	55700
16	34700	29500	21700	36300	54700	54600	62000	70900	70000	69400	68800	55300
17	34300	29000	21700	37800	54600	54600	62200	71000	70000	69400	68800	54900
18	33700	28500	21700	38500	54600	54600	62600	71000	69900	69400	68800	54600
19	33200	28100	22100	39500	54600	54700	62800	70900	69900	69400	68700	54400
20	32800	27500	23400	40700	54500	54800	63000	70800	69900	69400	68700	54300
21	32500	26900	25400	46100	54500	55100	63200	70800	69900	69400	68700	54200
22	32500	26400	25800	50500	54500	55300	63400	70800	69900	69300	68700	54200
23	32500	25900	26700	52900	54500	55500	63500	70800	69800	69300	68600	53900
24	32500	25400	27900	54700	54500	55800	63700	70800	69800	69300	68300	53400
25	32500	24800	28700	55200	54500	56100	63900	70900	69700	69300	67400	52900
26	32500	24300	29100	55300	54500	56300	64200	70900	69700	69300	66700	52400
27	32500	23800	29400	55400	54500	56400	64400	70800	69600	69300	66100	51800
28	32500	23300	29500	55300	54500	56700	64600	70700	69600	69200	65600	51400
29	32500	22800	29800	55100	---	56900	64800	70600	69600	69200	64900	50300
30	32500	22200	29900	55000	---	57100	65000	70600	69600	69200	64500	50300
31	32500	---	30100	55000	---	57300	---	70600	---	69200	63900	---
MIN	42300	32700	30100	55400	54900	57300	65000	71000	70600	69600	69200	63300
MIN	32500	22200	21400	30100	54500	54500	57500	65200	69600	69200	63900	50300
(†)	5996.5	5981.9	5993.3	6021.9	6121.4	6024.3	6032.0	6037.3	6036.4	6036.0	6030.9	6016.9
(‡)	-10400	-1300	+7900	+24900	-500	+2800	+7700	+5600	-1000	-400	-5300	-13600

CAL YR 1969 MAX 71000 MIN 21400 ‡ +6200
WTR YR 1970 MAX 71000 MIN 21400 ‡ +7400

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11407900 MIDDLE YUBA RIVER BELOW JACKSON MEADOWS DAM, NEAR SIERRA CITY, CALIF.

LOCATION.--Lat 39°30'58", long 120°33'40", in SE¼NW¼ sec.18, T.19 N., R.13 E., Sierra County, Tahoe National Forest, on right bank 0.6 mile downstream from Jackson Meadows Dam and 5.2 miles southeast of Sierra City.

DRAINAGE AREA.--38.3 sq mi (revised).

PERIOD OF RECORD.--October 1964 to September 1970. If record for Milton-Bowman tunnel near Graniteville is added to record published as Middle Yuba River at Milton, a record equivalent to this site can be obtained for the period 1928-64.

GAGE.--Water-stage recorder. Datum of gage is 5,717.20 ft above mean sea level (levels by Nevada Irrigation District).

AVERAGE DISCHARGE.--6 years, 125 cfs (90,560 acre-ft per year), adjusted for storage in Jackson Meadows Reservoir.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Oct. 11, 1965	1,460	5.75	Oct. 26, 1965	.70
1967	June 19, 1967	1,040	5.21	July 26-31, 1967	5.1
1968	May 13, 1968	508	4.32	Nov. 3-13, 1967	3.8
1969	May 24, 1969	1,040	5.21	Many days	4.2
1970	May 18, 19, 1970	596	4.51	do.	3.8

Period of record: Maximum discharge, 2,300 cfs Sept. 1, 1965 (gage height, 6.60 ft), from rating curve extended above 1,100 cfs on basis of computation of flow over dam at gage height 10.57 ft; minimum daily, 0.10 cfs Oct. 1, 2, 1964.

Maximum stage since at least 1925, 10.57 ft Jan. 31, 1963, from floodmarks (discharge, 10,000 cfs, by computation of flow over dam, adjusted for diversion and inflow).

REMARKS.--Records good. Since November 1964, flow regulated by Jackson Meadows Reservoir (see station 11407800). See schematic diagram of Yuba River basin elsewhere in this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	OEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	246	134	4.4	4.8	4.8	16	10	7.3	13	5.8	5.5
2	170	212	5.1	4.2	5.1	5.1	16	11	7.3	8.8	5.8	5.5
3	167	216	5.1	4.2	5.1	5.1	15	11	9.8	7.3	5.8	5.5
4	165	316	5.1	4.2	5.1	5.1	14	11	25	6.8	5.8	5.5
5	165	316	5.1	4.4	5.1	5.1	15	12	38	6.8	5.8	5.5
6	167	316	5.1	5.1	5.1	5.1	15	11	51	7.6	5.8	5.5
7	176	312	4.8	5.3	5.1	5.1	15	13	66	7.9	5.8	5.5
8	79	309	4.8	5.3	5.1	5.3	15	33	64	8.5	5.8	5.5
9	6.5	306	4.8	5.3	5.1	6.0	14	43	67	9.4	5.5	5.5
10	7.3	306	4.8	5.3	5.1	7.6	17	52	72	6.8	5.5	5.5
11	202	306	4.8	5.3	5.1	7.3	14	52	67	6.0	5.5	5.5
12	340	306	4.8	5.3	5.1	7.6	12	52	66	5.8	5.5	5.3
13	340	302	4.8	5.3	5.1	10	12	52	58	5.8	5.5	5.1
14	320	302	4.8	5.3	5.1	10	12	29	52	5.8	5.5	5.1
15	326	302	4.8	5.3	5.1	9.4	13	9.4	50	5.8	5.5	5.1
16	326	302	4.6	5.3	5.1	8.8	14	8.8	47	5.8	5.3	5.1
17	323	302	4.6	5.1	5.1	7.9	16	8.8	43	5.8	5.3	5.1
18	330	302	4.6	4.8	5.1	7.9	14	9.1	40	5.8	5.3	5.1
19	379	302	4.6	4.8	5.1	7.6	12	8.5	37	5.8	5.3	5.1
20	351	302	4.6	4.8	5.1	7.6	11	8.2	34	5.8	5.3	5.3
21	323	298	4.6	4.8	4.8	7.3	11	8.2	30	5.5	5.3	5.5
22	309	298	4.6	4.8	4.8	7.3	11	7.9	26	5.5	5.3	5.5
23	309	298	4.6	4.8	4.8	7.6	12	7.6	24	5.5	5.3	5.5
24	306	298	4.6	4.8	4.8	8.2	12	7.6	20	5.5	5.5	5.5
25	180	295	4.6	4.8	4.8	9.4	14	7.6	18	5.5	5.5	5.5
26	.70	295	4.6	4.8	4.8	10	13	7.6	16	5.5	5.5	5.5
27	145	288	4.4	4.8	4.8	12	12	7.6	16	5.5	5.5	5.5
28	320	288	4.4	4.8	4.8	13	12	7.6	17	5.5	5.5	5.5
29	323	292	4.6	4.8	---	14	11	7.6	17	5.5	5.5	5.5
30	323	292	4.6	4.8	---	14	11	7.6	12	5.5	5.5	5.5
31	323	---	4.4	4.8	---	14	---	7.6	---	5.5	5.5	---
TOTAL	7277.50	8825	275.7	151.8	140.1	255.2	401	529.3	1097.4	201.6	171.3	161.8
MEAN	235	294	8.89	4.90	5.00	8.23	13.4	17.1	36.6	6.50	5.53	5.39
MAX	379	316	134	5.3	5.1	14	17	52	72	13	5.8	5.5
MIN	.70	212	4.4	4.2	4.8	4.8	11	7.6	7.3	5.5	5.3	5.1
AC-FT	14430	17500	547	301	278	506	795	1050	2180	400	340	321

CAL YR 1965 TOTAL 45761.80 MEAN 125 MAX 585 MIN .30 AC-FT 90770 MEAN† 117 AC-FT† 84570
WTR YR 1966 TOTAL 19487.70 MEAN 53.4 MAX 379 MIN .70 AC-FT 38650 MEAN† 60.9 AC-FT† 44060

† ADJUSTED FOR CHANGE IN CONTENTS IN JACKSON MEADOWS RESERVOIR.

11407900 MIDDLE YUBA RIVER BELOW JACKSON MEADOWS DAM, NEAR SIERRA CITY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	625	344	320	11	7.9	9.8	7.9	580	695	128	248
2	5.5	590	344	320	10	7.6	9.8	8.5	464	665	227	248
3	5.5	548	344	320	10	7.3	9.8	8.5	440	36	236	248
4	5.5	512	344	316	10	7.0	9.4	8.5	386	7.3	181	248
5	5.5	472	344	312	10	6.8	9.4	8.5	448	7.0	160	248
6	5.5	440	344	264	10	6.8	8.8	9.8	500	7.0	172	248
7	5.5	408	344	78	10	7.0	8.5	13	556	6.8	202	251
8	5.5	382	344	38	10	7.3	8.5	18	585	6.8	199	251
9	5.5	358	344	28	9.8	7.9	8.5	21	645	6.5	197	251
10	5.5	351	344	24	9.8	7.9	8.5	18	655	6.5	195	251
11	5.5	351	340	22	9.4	7.3	8.2	14	655	6.0	197	251
12	5.5	351	340	20	9.4	7.0	8.5	13	710	6.0	197	251
13	5.5	351	340	18	9.4	7.0	8.5	13	770	6.0	197	251
14	5.5	351	340	17	9.4	6.8	8.5	16	728	5.8	204	251
15	5.5	351	340	15	9.4	7.0	8.5	21	716	5.5	225	254
16	5.5	348	340	14	9.1	39	8.5	25	764	5.5	254	254
17	5.5	348	340	14	9.1	33	8.2	28	932	5.5	254	254
18	37	348	340	12	8.8	22	8.2	28	939	5.5	248	254
19	96	348	337	12	8.5	17	8.2	29	988	5.5	251	254
20	102	348	337	11	8.5	14	8.2	31	1020	5.5	248	254
21	150	348	337	10	8.5	14	8.2	50	1000	5.5	248	254
22	225	348	337	10	8.2	14	7.9	258	932	5.3	278	254
23	278	348	337	10	7.9	14	7.9	496	878	5.3	251	254
24	323	348	334	10	7.9	13	8.2	645	812	5.3	254	251
25	390	348	334	9.4	7.9	13	8.5	740	800	5.3	254	251
26	476	348	326	9.1	7.9	12	8.5	794	806	5.1	254	251
27	556	344	326	9.1	7.9	12	8.5	836	782	5.1	254	248
28	590	344	323	8.8	7.9	12	8.5	830	740	5.1	254	248
29	595	344	323	8.8	---	11	8.2	782	728	5.1	251	248
30	610	344	323	10	---	10	7.6	728	705	5.1	248	248
31	625	---	320	11	---	10	---	690	---	5.1	248	---
TOTAL	5146.5	11645	10454	2281.2	255.7	368.6	256.5	7188.7	21664	1558.0	6966	7527
MEAN	166	388	337	73.6	9.13	11.9	8.55	232	722	50.3	225	251
MAX	625	625	344	320	11	39	9.8	836	1020	695	278	254
MIN	5.5	344	320	8.8	7.9	6.8	7.6	7.9	386	5.1	128	248
AC-FT	10210	23100	20740	4520	507	731	509	14260	42970	3090	13820	14930

CAL YR 1966 TOTAL 30355.0 MEAN 83.2 MAX 625 MIN 4.2 AC-FT 60210 MEAN† 77.7 AC-FT† 56230
WTR YR 1967 TOTAL 75311.2 MEAN 206 MAX 1020 MIN 5.1 AC-FT 149400 MEAN† 163 AC-FT† 119100

† ADJUSTED FOR CHANGE IN CONTENTS IN JACKSON MEADOWS RESERVOIR.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	248	4.0	4.6	5.5	4.6	8.8	9.4	10	230	18	202	260
2	248	4.0	4.4	5.5	5.3	8.8	8.8	10	209	17	245	260
3	248	3.8	4.4	5.3	5.5	8.8	8.5	10	93	17	254	260
4	248	3.8	4.6	5.1	4.8	8.8	8.8	10	6.0	16	248	260
5	248	3.8	5.3	5.1	4.8	8.8	8.8	10	5.8	15	254	260
6	248	3.8	4.8	5.1	4.4	8.8	8.8	10	6.0	14	257	260
7	248	3.8	4.8	4.8	4.4	8.5	9.1	9.4	15	13	267	260
8	245	3.8	4.6	4.8	4.4	8.5	9.1	9.4	38	12	257	260
9	121	3.8	4.6	4.8	4.4	7.9	9.4	9.4	60	11	260	260
10	4.0	3.8	4.6	8.5	4.4	7.6	9.8	9.4	68	9.8	260	257
11	4.0	3.8	4.6	6.0	4.6	7.6	10	9.4	76	8.8	264	257
12	4.0	3.8	4.6	4.8	4.6	7.3	10	9.1	75	7.6	260	257
13	4.0	3.8	4.6	4.6	4.6	7.3	9.8	150	75	6.0	248	257
14	4.0	4.2	5.3	5.5	4.6	7.3	9.8	101	70	5.8	251	254
15	4.0	4.0	5.1	11	4.8	7.0	9.4	95	70	5.8	278	254
16	4.0	4.2	4.8	7.3	4.6	7.0	9.4	107	70	5.8	254	254
17	4.0	4.4	4.8	5.8	7.0	6.8	8.8	86	68	5.5	225	254
18	4.0	4.6	7.0	5.5	7.0	6.8	8.5	72	63	5.4	209	254
19	4.0	4.8	6.2	5.5	12	6.5	8.5	102	62	5.3	225	254
20	4.0	4.6	5.1	5.5	20	6.5	8.8	90	56	5.3	254	257
21	4.0	4.6	4.8	5.5	19	6.5	8.8	199	48	5.1	254	260
22	4.0	4.4	4.8	5.3	13	6.8	8.5	295	47	57	257	264
23	4.0	4.4	4.8	5.3	18	6.8	8.5	281	44	146	257	264
24	4.0	4.4	4.8	5.3	13	7.0	8.5	270	39	170	260	264
25	4.0	4.4	5.1	5.3	11	7.3	9.1	260	35	212	264	264
26	4.0	4.4	5.1	5.3	9.8	7.3	9.1	245	32	254	260	260
27	4.0	4.6	5.3	5.3	9.8	7.6	9.4	245	30	264	260	264
28	4.0	4.6	5.3	4.6	9.8	8.2	9.8	207	26	257	260	264
29	4.0	4.6	5.5	5.1	9.4	9.1	10	158	22	309	260	264
30	4.0	4.6	5.5	8.8	---	9.4	10	126	20	323	260	264
31	4.0	---	5.5	6.0	---	9.8	---	187	---	204	260	---
TOTAL	2190.0	125.6	155.3	177.8	233.6	241.2	275.2	3392.1	1758.8	2405.2	7824	7781
MEAN	70.6	4.19	5.01	5.74	8.06	7.78	9.17	109	58.6	77.6	252	259
MAX	248	4.8	7.0	11	20	9.8	10	295	230	323	278	264
MIN	4.0	3.8	4.4	4.6	4.4	6.5	8.5	9.1	5.8	5.1	202	254
AC-FT	4340	249	308	353	463	478	546	6730	3490	4770	15520	15430

CAL YR 1967 TOTAL 50536.6 MEAN 138 MAX 1020 MIN 3.8 AC-FT 100200 MEAN† 148 AC-FT† 107200
WTR YR 1968 TOTAL 26559.8 MEAN 72.6 MAX 323 MIN 3.8 AC-FT 52680 MEAN† 65 AC-FT† 47680

† ADJUSTED FOR CHANGE IN CONTENTS IN JACKSON MEADOWS RESERVOIR.

11407900 MIDDLE YUBA RIVER BELOW JACKSON MEADOWS DAM, NEAR SIERRA CITY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	264	4.2	4.6	4.8	10	6.0	16	365	12	146	13	257
2	264	5.3	4.6	4.8	9.4	6.0	14	379	12	140	12	254
3	260	7.6	4.6	4.8	9.1	6.0	12	368	11	124	11	233
4	260	6.0	4.6	4.8	8.8	6.0	12	334	11	116	9.8	245
5	257	5.1	4.6	4.8	8.8	6.0	12	323	11	114	8.8	264
6	260	4.8	4.4	4.8	8.5	6.0	11	436	10	114	8.8	242
7	260	4.8	4.2	4.8	7.6	6.0	10	552	50	109	8.8	270
8	260	4.8	4.4	4.8	7.6	6.0	9.8	620	288	109	8.8	270
9	257	4.8	4.4	4.8	7.6	5.8	9.8	705	448	116	8.8	270
10	257	4.8	6.2	4.8	7.6	5.8	10	812	472	116	8.8	270
11	257	5.5	6.2	5.1	7.6	5.8	12	860	448	104	8.8	278
12	254	7.5	5.3	5.3	7.6	5.8	14	925	460	100	278	281
13	254	5.3	5.1	9.5	7.3	6.0	15	946	488	94	386	281
14	254	5.1	5.1	10	7.3	6.0	14	890	524	88	264	281
15	251	5.1	5.3	7.9	7.3	6.0	12	788	536	90	267	281
16	251	5.1	5.1	7.3	7.3	6.2	13	740	532	86	302	278
17	251	5.1	4.8	6.8	7.3	6.5	14	800	496	73	326	278
18	251	6.9	4.8	7.5	7.3	6.5	18	918	492	61	295	274
19	245	6.2	4.8	36	7.3	6.5	18	925	496	56	284	274
20	242	5.5	4.8	64	7.3	6.5	18	848	436	49	270	274
21	123	5.3	4.6	46	7.0	6.5	20	818	372	45	264	270
22	4.8	5.1	4.8	23	6.8	6.8	21	866	320	41	274	270
23	4.6	4.8	4.8	17	7.0	7.0	20	960	292	39	288	267
24	4.4	4.8	5.3	14	6.8	7.0	17	974	267	34	278	270
25	4.4	4.8	5.3	21	6.8	7.3	14	904	233	30	267	278
26	4.2	4.6	5.1	34	6.5	8.2	13	884	209	26	278	278
27	4.2	4.4	5.1	18	6.2	9.4	25	860	188	22	267	278
28	4.2	4.4	5.1	16	6.0	11	95	836	170	22	270	270
29	4.4	4.4	5.1	13	---	12	201	800	160	21	281	267
30	4.2	4.6	4.8	12	---	14	316	520	152	17	264	267
31	4.2	---	4.8	11	---	16	---	12	---	14	251	---
TOTAL	5275.6	156.7	152.7	432.4	211.7	226.6	1006.6	21968	8596	2316	5761.4	8070
MEAN	170	5.22	4.93	13.9	7.56	7.31	33.6	709	287	74.7	186	269
MAX	264	7.6	6.2	64	10	16	316	974	536	146	386	281
MIN	4.2	4.2	4.2	4.8	6.0	5.8	9.8	12	10	14	8.8	233
AC-FT	10460	311	303	858	420	449	2000	43570	17050	4590	11430	16010

CAL YR 1968 TOTAL 29673.9 MEAN 81.1 MAX 323 MIN 4.2 AC-FT 58860 MEAN† 69.2 AC-FT† 50260
WTR YR 1969 TOTAL 54173.7 MEAN 148 MAX 974 MIN 4.2 AC-FT 107500 MEAN† 165 AC-FT† 119400

† ADJUSTED FOR CHANGE IN CONTENTS IN JACKSON MEADOWS RESERVOIR.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	270	3.8	284	6.2	174	98	8.5	9.6	286	31	6.3	286
2	274	3.8	131	5.1	156	95	8.5	9.6	282	28	5.8	300
3	274	3.8	3.8	4.6	142	89	8.5	11	277	27	5.8	259
4	274	3.8	3.8	4.6	136	86	8.5	11	272	24	5.3	222
5	274	3.8	3.8	4.6	133	85	8.5	11	259	22	5.3	226
6	274	3.8	3.8	4.6	123	81	8.5	9.6	242	21	5.8	226
7	274	3.8	3.8	4.2	121	81	8.5	9.6	218	18	5.3	222
8	274	3.8	3.8	5.1	119	90	8.5	9.6	206	17	5.3	222
9	274	3.8	3.8	7.9	114	90	8.5	19	206	16	5.3	222
10	274	107	3.8	7.3	112	85	8.5	73	206	16	5.3	222
11	274	288	3.8	6.2	111	81	7.6	158	186	14	5.3	222
12	274	292	4.0	6.8	116	79	6.8	193	161	14	5.3	192
13	270	292	3.8	8.5	124	81	6.8	196	154	11	5.3	221
14	270	292	3.8	18	121	100	6.8	224	150	11	4.8	246
15	270	292	3.8	10	114	112	6.8	268	137	11	4.8	206
16	270	292	3.8	60	111	116	6.8	375	125	11	4.8	175
17	267	288	3.8	27	118	116	6.8	505	116	9.9	4.8	147
18	267	292	3.8	16	109	109	7.6	584	98	9.9	4.4	105
19	267	292	7.0	14	100	55	7.6	566	88	8.6	4.4	61
20	267	288	19	19	96	8.5	6.8	495	83	8.6	4.4	39
21	125	288	33	82	94	8.5	6.8	440	79	8.6	4.4	25
22	4.4	288	10	51	92	9.4	7.6	425	75	8.0	4.4	17
23	4.2	288	12	32	88	9.4	7.6	440	67	8.0	4.4	108
24	4.0	284	48	48	86	10	7.6	440	63	7.4	177	250
25	3.8	288	29	225	84	10	7.6	445	56	7.4	360	246
26	3.8	288	13	337	84	10	7.6	465	52	7.4	259	246
27	3.8	284	10	444	82	10	7.6	460	47	6.8	259	246
28	3.8	281	7.6	354	85	10	7.6	410	41	6.8	246	250
29	3.8	281	7.6	274	---	10	8.5	360	37	6.8	238	264
30	3.8	284	7.3	230	---	9.4	9.4	320	33	6.3	234	272
31	3.8	---	7.3	197	---	8.5	---	300	---	6.3	234	---
TOTAL	5596.2	5903.2	686.8	2513.7	3145	1842.7	233.3	8242.0	4302	408.8	2124.0	5945
MEAN	181	197	22.2	81.1	112	59.4	7.78	266	143	13.2	68.5	198
MAX	274	292	284	444	174	116	9.4	584	286	31	360	300
MIN	3.8	3.8	3.8	4.2	82	8.5	6.8	9.6	33	6.3	4.4	17
AC-FT	11100	11710	1360	4990	6240	3650	463	16350	8530	811	4210	11790

CAL YR 1969 TOTAL 60774.9 MEAN 167 MAX 974 MIN 3.8 AC-FT 120500 MEAN† 175 AC-FT† 126700
WTR YR 1970 TOTAL 40942.7 MEAN 112 MAX 584 MIN 3.8 AC-FT 81210 MEAN† 122 AC-FT† 88610

† ADJUSTED FOR CHANGE IN CONTENTS IN JACKSON MEADOWS RESERVOIR.

11408000 MILTON-BOWMAN TUNNEL OUTLET NEAR GRANITEVILLE, CALIF.

LOCATION.--Lat 39°27'36", long 120°36'40", in NW¼NE¼ sec.3, T.18 N., R.12 E., Nevada County, on right bank 100 ft downstream from tunnel outlet near upper end of Bowman Lake and 6.9 miles east of Graniteville.

PERIOD OF RECORD.--May 1928 to September 1930, February 1931 to September 1970. Some monthly and yearly discharges for 1931, published in WSP 1315-A. Prior to Oct. 1, 1960, published as Milton-Bowman tunnel at outlet.

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is 5,600 ft (from topographic map). Prior to Sept. 22, 1964, at present site at datum 0.56 ft higher.

AVERAGE DISCHARGE.--42 years, 71.1 cfs (51,510 acre-ft per year).

EXTREMES.--Period of record: Maximum daily discharge, 492 cfs Feb. 11, 1941; minimum daily, 0.4 cfs Oct. 7, 1944.

REMARKS.--Records good. Tunnel diverts from Middle Yuba River at Milton, in sec.12, T.19 N., R.12 E., and discharges into Bowman Lake. Practically the entire flow of Middle Yuba River is diverted during low and medium flows. Middle Yuba River flow is regulated by Jackson Meadows Reservoir (see station 11407800) since November 1964. See schematic diagram of Yuba River basin elsewhere in this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	284	190	6.8	7.0	7.0	35	32	13	12	2.5	2.1
2	165	208	14	6.6	6.6	7.0	37	34	13	11	2.5	2.1
3	160	201	10	6.6	6.6	6.6	37	35	13	8.6	2.5	2.1
4	170	279	9.3	6.8	6.6	6.4	36	38	21	8.1	2.5	2.1
5	170	283	8.8	7.8	6.8	6.6	38	40	33	7.6	2.5	2.1
6	167	288	8.6	8.8	7.6	6.8	40	36	45	7.8	2.5	2.1
7	168	289	8.3	8.3	6.8	7.6	40	35	63	7.8	2.5	2.1
8	127	287	8.3	8.3	6.6	7.8	40	50	62	7.6	2.5	2.1
9	12	290	8.0	8.0	6.6	8.6	38	66	66	8.9	2.5	1.9
10	8.6	291	8.0	7.8	6.6	12	48	89	68	7.6	2.5	1.9
11	114	292	8.0	7.8	6.6	12	38	77	66	6.8	2.5	1.9
12	324	293	8.3	7.6	6.6	12	33	72	64	6.5	2.3	1.9
13	338	293	8.0	7.6	6.6	16	31	69	56	6.3	2.3	2.1
14	334	288	7.6	7.3	6.6	17	30	60	50	5.8	2.1	2.5
15	332	292	7.0	7.3	6.6	16	33	28	48	5.8	2.1	2.5
16	330	296	7.0	7.0	6.6	15	37	25	44	5.5	2.1	2.5
17	329	292	6.8	6.8	6.6	13	44	24	40	5.5	2.1	2.5
18	333	285	6.8	7.0	6.6	13	41	23	38	5.3	2.1	2.5
19	381	297	6.8	7.0	6.8	13	34	23	35	5.5	2.1	2.5
20	399	300	6.8	6.8	6.8	12	30	22	32	5.3	2.1	2.5
21	328	302	6.8	6.8	6.6	12	29	22	29	5.3	2.1	2.5
22	322	304	6.6	6.8	6.6	12	29	21	26	5.0	2.1	2.5
23	321	303	6.6	6.8	6.8	13	30	20	23	4.8	2.3	2.5
24	320	301	7.0	6.8	7.0	14	33	19	20	4.6	2.3	2.5
25	244	307	8.3	6.8	6.8	17	36	18	18	4.6	2.3	2.5
26	10	307	7.0	6.8	6.8	18	38	18	16	4.3	2.3	2.3
27	90	306	6.8	6.8	6.8	19	34	16	16	2.5	2.3	2.3
28	316	304	7.0	6.8	6.8	22	32	16	16	2.5	2.3	2.3
29	332	302	8.0	7.0	---	25	32	15	16	2.5	2.3	2.3
30	333	302	7.6	7.6	---	27	32	14	13	2.5	2.1	2.3
31	331	---	7.6	7.0	---	30	---	14	---	2.5	2.1	---
TOTAL	7339.6	8666	425.7	224.0	188.4	424.4	1065	1071	1063	186.4	71.3	68.0
MEAN	237	289	13.7	7.23	6.73	13.7	35.5	34.5	35.4	6.01	2.30	2.27
MAX	399	307	190	8.8	7.6	30	48	89	68	12	2.5	2.5
MIN	8.6	201	6.6	6.6	6.6	6.4	29	14	13	2.5	2.1	1.9
AC-FT	14560	17190	844	444	374	842	2110	2120	2110	370	141	135

CAL YR 1965 TOTAL 37756.7 MEAN 103 MAX 399 MIN 2.5 AC-FT 74890
WTR YR 1966 TOTAL 20792.8 MEAN 57.0 MAX 399 MIN 1.9 AC-FT 41240

11408000 MILTON-BOWMAN TUNNEL OUTLET NEAR GRANITEVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	386	350	290	30	13	19	10	43	44	91	253
2	2.3	387	355	288	25	13	18	10	42	43	197	252
3	2.3	374	353	288	22	13	17	11	41	41	216	252
4	2.3	397	343	285	20	13	17	12	42	38	187	252
5	2.3	352	361	284	19	13	17	12	45	36	160	253
6	2.3	364	356	177	18	12	16	13	44	55	166	254
7	2.5	294	346	14	18	12	16	18	44	28	207	254
8	2.5	368	339	9.8	17	13	15	26	45	20	202	253
9	2.5	352	334	8.9	17	13	15	33	45	18	199	253
10	2.5	349	334	8.4	16	14	15	31	45	16	201	252
11	2.5	348	332	8.1	16	15	15	25	45	15	204	249
12	2.5	347	329	8.1	16	14	14	22	49	15	199	253
13	2.5	346	329	7.8	18	15	15	22	49	14	199	255
14	2.5	347	327	7.8	18	12	15	26	46	13	210	255
15	2.5	351	324	7.8	17	12	15	36	46	13	226	254
16	2.5	361	322	7.6	16	66	14	50	48	12	254	254
17	2.5	347	320	7.6	15	84	14	45	49	12	258	254
18	2.5	342	319	7.6	15	60	14	37	50	11	251	255
19	2.5	344	317	7.6	15	42	13	40	50	10	252	254
20	2.5	369	316	8.9	14	35	13	43	50	10	250	254
21	126	352	313	16	14	33	12	45	50	9.8	246	254
22	143	343	309	14	14	32	12	46	48	9.5	268	254
23	134	339	308	12	14	32	12	47	46	8.9	260	253
24	184	338	307	12	14	28	12	46	46	8.1	259	252
25	271	336	305	11	14	26	11	46	47	7.6	262	251
26	327	334	302	12	13	24	11	48	46	7.3	258	250
27	391	333	298	14	13	23	12	50	46	7.3	257	249
28	380	344	297	17	13	23	11	49	46	7.1	256	250
29	364	362	295	51	---	22	10	48	45	7.1	255	250
30	371	346	289	46	---	21	11	47	45	6.8	254	250
31	396	---	292	40	---	20	---	46	---	6.8	254	---
TOTAL	3135.8	10552	10021	1977.0	471	768	421	1040	1383	550.3	6958	7578
MEAN	101	352	323	63.8	16.8	24.8	14.0	33.5	46.1	17.8	224	253
MAX	396	397	361	290	30	84	19	50	50	55	268	255
MIN	2.3	294	289	7.6	13	12	10	10	41	6.8	91	249
AC-FT	6220	20930	19880	3920	934	1520	835	2060	2740	1090	13800	15030

CAL YR 1966 TOTAL 28070.3 MEAN 76.9 MAX 397 MIN 1.9 AC-FT 55680
WTR YR 1967 TOTAL 44855.1 MEAN 123 MAX 397 MIN 2.3 AC-FT 88970

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	249	1.6	5.3	5.3	7.3	26	23	32	237	17	200	262
2	255	1.7	4.8	5.0	9.2	24	20	32	226	16	247	262
3	253	1.7	5.0	4.8	12	23	20	34	148	15	254	261
4	250	1.7	6.0	4.8	9.8	22	20	34	18	14	252	260
5	250	1.7	7.3	4.8	9.2	22	20	32	14	13	254	261
6	248	1.7	5.8	4.8	8.9	21	19	28	15	13	254	262
7	247	1.7	6.5	4.8	8.6	20	19	26	18	12	263	262
8	247	1.7	5.5	4.8	8.6	19	19	26	37	11	256	261
9	163	1.7	5.0	4.8	8.9	18	21	26	65	9.8	256	261
10	11	1.7	5.0	6.0	8.9	16	23	26	74	8.9	263	261
11	7.1	1.7	5.0	5.3	8.9	16	27	25	82	8.1	257	259
12	5.5	1.7	5.0	5.0	8.6	16	26	24	80	7.6	260	258
13	5.3	1.7	4.8	5.0	9.2	16	25	128	78	6.5	250	257
14	5.0	2.3	4.6	6.0	8.9	15	25	148	76	5.8	246	256
15	4.8	1.9	4.6	23	8.6	14	26	103	74	5.3	272	258
16	4.3	1.7	4.6	16	8.6	14	24	138	72	5.0	257	259
17	2.5	3.6	4.6	11	16	13	22	110	70	4.8	232	258
18	1.9	6.5	5.5	10	19	12	20	98	66	4.8	215	258
19	1.9	8.9	5.3	9.2	29	12	20	117	62	4.6	229	256
20	1.9	7.6	5.0	8.6	79	12	20	127	57	4.3	256	256
21	1.9	6.3	4.8	8.1	77	12	20	176	52	4.1	253	257
22	1.9	5.5	4.8	7.8	57	12	19	292	47	28	256	261
23	1.9	5.3	4.8	7.8	83	12	19	284	43	130	260	262
24	1.9	5.3	4.8	7.8	58	12	20	279	39	165	263	261
25	1.9	5.0	4.8	7.8	41	14	21	270	35	190	267	261
26	1.9	5.0	4.8	8.1	35	14	22	252	31	246	266	259
27	1.9	5.0	5.3	8.1	32	14	24	250	29	255	265	258
28	1.9	5.5	5.5	8.1	30	15	25	230	26	249	264	257
29	1.9	5.5	5.5	8.1	28	18	28	182	22	271	263	258
30	1.7	6.0	5.3	8.1	---	20	30	150	19	334	263	262
31	1.6	---	5.3	7.8	---	22	---	180	---	230	262	---
TOTAL	2233.6	108.9	160.9	236.6	728.2	516	667	3859	1912	2288.6	7855	7784
MEAN	72.1	3.63	5.19	7.63	25.1	16.6	22.2	124	63.7	73.8	253	259
MAX	255	8.9	7.3	23	83	26	30	292	237	334	272	262
MIN	1.6	1.6	4.6	4.8	7.3	12	19	24	14	4.1	200	256
AC-FT	4430	216	319	469	1440	1020	1320	7650	3790	4540	15580	15440

CAL YR 1967 TOTAL 23649.7 MEAN 64.8 MAX 290 MIN 1.6 AC-FT 46910
WTR YR 1968 TOTAL 28349.8 MEAN 77.5 MAX 334 MIN 1.6 AC-FT 56230

11408000 MILTON-BOWMAN TUNNEL OUTLET NEAR GRANITEVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	261	3.6	5.8	5.8	24	11	34	387	58	152	14	230
2	261	6.0	5.5	5.8	22	10	33	416	54	143	13	223
3	260	13	5.5	5.8	20	10	28	412	54	123	11	203
4	258	9.2	5.5	5.3	18	10	26	375	52	111	9.8	198
5	257	6.3	5.3	5.3	17	9.8	30	352	47	110	8.9	236
6	258	5.5	5.3	5.3	16	9.8	26	414	43	107	7.3	204
7	262	5.0	5.0	5.8	16	9.8	23	427	55	104	6.5	238
8	261	4.6	5.0	6.0	16	9.8	23	431	216	104	6.3	238
9	260	4.6	5.0	6.0	16	9.8	22	432	253	113	6.0	237
10	259	4.1	8.2	6.0	16	9.8	22	431	252	110	5.8	236
11	258	4.3	11	7.3	16	9.5	26	429	251	103	5.8	241
12	269	13	7.6	7.6	16	9.5	31	428	251	95	90	249
13	261	7.8	7.1	15	15	9.5	34	366	253	87	265	249
14	257	6.3	7.3	20	14	9.5	33	292	254	82	239	249
15	254	6.3	7.8	16	15	9.5	29	288	254	85	239	248
16	251	5.8	7.3	13	14	9.5	29	287	253	81	254	247
17	250	5.5	6.5	12	13	9.8	32	290	252	70	299	247
18	248	8.4	6.3	13	13	10	42	293	251	60	275	246
19	246	9.2	6.5	86	13	10	43	292	251	53	262	245
20	245	7.6	6.0	208	12	10	46	289	249	45	244	244
21	163	6.8	5.8	170	12	10	54	289	246	40	229	244
22	9.2	6.5	5.8	76	12	10	61	291	244	36	239	244
23	5.8	6.5	6.5	49	12	11	62	294	244	34	257	243
24	4.8	6.8	7.6	40	12	11	48	294	277	32	250	245
25	4.3	6.5	7.8	64	12	12	39	293	289	28	242	250
26	3.8	6.0	6.8	110	11	13	35	292	246	25	242	249
27	3.8	5.8	6.0	59	11	15	40	292	212	23	241	249
28	3.6	5.8	6.0	43	11	18	115	291	186	21	238	248
29	3.6	5.5	5.8	36	---	21	225	290	169	21	255	247
30	4.8	5.8	5.8	31	---	25	332	281	159	18	239	247
31	3.8	---	5.8	27	---	33	---	87	---	16	224	---
TOTAL	5346.5	198.1	199.2	1160.0	415	375.6	1623	10325	5875	2232	4917.4	7174
MEAN	172	6.60	6.43	37.4	14.8	12.1	54.1	333	196	72.0	159	239
MAX	269	13	11	208	24	33	332	432	289	152	299	250
MIN	3.6	3.6	5.0	5.3	11	9.5	22	87	43	16	5.8	198
AC-FT	10600	393	395	2300	823	745	3220	20480	11650	4430	9750	14230

CAL YR 1968 TOTAL 31590.2 MEAN 86.3 MAX 334 MIN 3.6 AC-FT 62660
WTR YR 1969 TOTAL 39840.8 MEAN 109 MAX 432 MIN 3.6 AC-FT 79020

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	249	5.0	246	17	212	107	18	19	120	40	4.6	291
2	254	5.3	164	16	198	108	18	21	120	36	4.6	325
3	252	5.5	11	15	175	97	18	23	120	33	4.3	295
4	253	5.5	7.1	14	158	90	18	22	119	30	4.1	259
5	252	6.8	6.5	13	147	89	19	28	118	28	4.1	259
6	251	7.8	6.5	13	137	82	20	28	117	24	4.1	247
7	252	7.1	6.3	12	130	80	20	27	195	22	4.1	254
8	257	6.5	6.3	13	126	89	20	26	191	20	4.1	253
9	254	6.3	6.5	28	122	86	22	29	150	18	3.8	256
10	254	38	6.5	36	119	83	22	72	137	16	3.8	279
11	252	238	6.8	22	117	78	23	140	136	15	3.8	261
12	252	245	7.1	24	126	74	22	186	135	14	4.1	233
13	251	250	8.9	35	141	76	21	196	156	13	4.1	238
14	251	250	7.3	89	140	90	20	204	177	12	3.8	288
15	256	250	6.8	48	127	107	19	216	132	9.8	3.8	247
16	261	249	6.5	222	120	110	19	220	121	8.4	3.8	219
17	254	247	6.3	127	136	111	18	223	126	7.3	3.4	186
18	248	250	6.3	74	120	106	18	287	127	6.5	1.9	142
19	246	250	15	63	107	77	19	349	115	6.0	1.9	83
20	245	249	57	81	98	21	18	281	109	5.5	1.9	52
21	163	248	125	276	95	19	17	284	105	5.5	1.9	34
22	13	247	47	228	90	18	17	293	101	5.5	1.9	24
23	8.4	246	36	106	86	19	16	295	90	5.0	1.9	81
24	7.3	244	153	136	84	20	16	295	82	5.0	108	246
25	6.8	245	112	240	82	20	16	295	74	4.8	330	246
26	6.3	246	56	338	82	20	18	296	68	4.8	361	246
27	6.3	245	35	336	82	19	18	192	65	4.6	308	246
28	6.5	244	27	226	86	20	16	91	58	4.6	296	245
29	6.0	244	23	223	---	20	16	90	52	4.6	271	251
30	5.5	244	21	221	---	19	18	89	44	4.6	265	256
31	5.5	---	19	219	---	18	---	100	---	4.6	261	---
TOTAL	5278.6	5024.8	1248.7	3511	3443	1973	560	4917	3460	418.1	2279.8	6542
MEAN	170	167	40.3	113	123	63.6	18.7	159	115	13.5	73.5	218
MAX	261	250	246	338	212	111	23	349	195	40	361	325
MIN	5.5	5.0	6.3	12	82	18	16	19	44	4.6	1.9	24
AC-FT	10470	9970	2480	6960	6830	3910	1110	9750	6860	829	4520	12980

CAL YR 1969 TOTAL 45649.1 MEAN 125 MAX 432 MIN 5.0 AC-FT 90540
WTR YR 1970 TOTAL 38656.0 MEAN 106 MAX 361 MIN 1.9 AC-FT 76670

11408700 MIDDLE YUBA RIVER NEAR ALLEGHANY, CALIF.

LOCATION.--Lat 39°26'19", long 120°48'40", in NW¼SW¼ sec.12, T.18 N., R.10 E., Nevada County, Tahoe National Forest, on left bank 0.5 mile downstream from Wolf Creek and 2.8 miles southeast of Alleghany.

DRAINAGE AREA.--96.6 sq mi.

PERIOD OF RECORD.--October 1957 to September 1966 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 2,960 ft (from topographic map).

AVERAGE DISCHARGE.--9 years, 187 cfs (135,400 acre-ft per year).

EXTREMES.--Maximum discharge during water year 1966, 642 cfs May 10 (gage height, 5.36 ft); minimum daily, 23 cfs Aug. 20-22.

Period of record: Maximum discharge, 23,700 cfs Jan. 31, 1963 (gage height, 18.95 ft), from rating curve extended above 2,100 cfs on basis of slope-area measurements at gage heights 10.58 and 18.95 ft; minimum, 12 cfs July 6, 1959.

REMARKS.--Records excellent except those for period of no gage-height record July 16 to Sept. 30, 1966, which are fair. Milton-Bowman tunnel (see station 11408000) diverts above station to Bowman Lake (see station 11415500). Since November 1964, flow regulated by Jackson Meadows Reservoir (see station 11407800).

REVISIONS:--WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	28	70	56	75	99	455	316	120	40	37	27
2	31	28	70	58	71	91	462	322	110	40	36	27
3	31	28	71	52	70	86	466	344	107	40	35	27
4	31	28	74	68	77	81	427	364	99	40	34	27
5	31	27	74	154	134	81	427	376	94	39	34	26
6	31	27	72	181	142	86	430	361	92	38	33	25
7	31	27	71	179	114	122	430	344	94	37	32	24
8	30	43	70	152	101	130	420	355	91	37	31	24
9	30	37	68	138	91	152	410	361	84	37	31	24
10	29	32	65	124	86	280	530	506	83	36	30	24
11	29	30	67	112	81	253	462	398	78	36	29	25
12	28	31	70	103	78	230	420	344	75	36	29	25
13	30	39	64	101	75	352	379	316	71	36	29	25
14	33	115	58	103	72	333	361	302	70	38	28	25
15	45	80	54	112	72	308	367	280	67	36	28	26
16	35	54	52	112	71	269	394	264	64	35	27	26
17	32	97	51	103	72	227	441	251	62	35	27	26
18	31	345	50	98	75	208	424	243	59	34	27	26
19	30	161	50	91	89	205	361	243	57	34	25	26
20	29	108	50	86	86	188	322	240	56	33	23	26
21	29	89	49	83	88	181	305	232	54	33	23	26
22	29	77	49	81	91	176	296	217	52	33	23	26
23	29	92	48	78	120	184	299	200	52	32	24	26
24	29	174	53	75	124	208	322	186	51	32	24	26
25	29	114	52	74	110	230	347	176	49	32	25	26
26	29	88	53	71	103	261	364	172	46	32	27	26
27	29	80	51	70	98	299	344	163	45	33	27	26
28	28	77	63	70	96	333	324	152	44	34	27	25
29	28	77	68	72	---	370	316	144	43	35	27	24
30	28	74	67	83	---	391	313	136	42	35	27	24
31	28	---	57	75	---	417	---	126	---	35	27	---
TOTAL	943	2307	1881	3015	2562	6831	11618	8434	2111	1103	886	766
MEAN	30.4	76.9	60.7	97.3	91.5	220	387	272	70.4	35.6	28.6	25.5
MAX	45	345	74	181	142	417	530	506	120	40	37	27
MIN	28	27	48	52	70	81	296	126	42	32	23	24
AC-FT	1870	4580	3730	5980	5080	13550	23040	16730	4190	2190	1760	1520

CAL YR 1965 TOTAL 79247 MEAN 217 MAX 932 MIN 27 AC-FT 157200
WTR YR 1966 TOTAL 42457 MEAN 116 MAX 530 MIN 23 AC-FT 84210

11408850 MIDDLE YUBA RIVER NEAR CAMPTONVILLE, CALIF.

LOCATION.--Lat 39°25'01", long 120°57'06", in SW¼SE¼ sec.15, T.18 N., R.9 E., Sierra County, Tahoe National Forest, on right bank 0.6 mile downstream from Kanaka Creek and 5.8 miles southeast of Camptonville.

DRAINAGE AREA.--136 sq mi.

PERIOD OF RECORD.--August 1967 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 2,170 ft (from topographic map).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for August 1967 to September 1970 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1967	Sept.18, 1967	58	5.19	Sept.27-30, 1967	40
1968	Feb. 20, 1968	3,530	10.33	Sept.29, 30, 1968	24
1969	Jan. 20, 1969	10,800	14.22	Oct. 1-5, 9, 10, 1968	25
1970	Jan. 21, 1970	12,300	14.80	Sept.23-25, 1970	26

Period of record: Maximum discharge, 12,300 cfs Jan. 21, 1970 (gage height, 14.80 ft); minimum daily, 24 cfs Sept. 29, 30, 1968.

REMARKS.--Records good. Natural flow of stream affected by Jackson Meadows Reservoir since November 1964 (see station 11407800), Milton-Bowman tunnel (see station 11408000) which diverts above station to Bowman Lake (see station 11415500), and by other small diversions above station. See schematic diagram of Yuba River basin elsewhere in this report.

DISCHARGE, IN CUBIC FEET PER SECOND, AUGUST TO SEPTEMBER 1967

DAY	AUG	SEP	DAY	AUG	SEP	DAY	AUG	SEP	DAY	AUG	SEP	DAY	AUG	SEP	DAY	AUG	SEP
1		47	6		49	11		46	16		43	21	52	44	26	53	42
2		47	7		47	12		45	17		44	22	52	43	27	52	40
3		47	8		47	13		44	18	53	55	23	52	44	28	50	40
4		48	9		46	14		44	19	53	51	24	52	44	29	49	40
5		50	10		47	15		44	20	53	45	25	51	43	30	49	40
															31	48	

TOTAL.. 1356
MEAN.. 45.2
MAX.. 55
MIN.. 40
AC-FT.. 2690

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	39	55	78	119	589	548	339	149	49	33	30
2	68	38	50	74	224	527	483	336	141	49	33	30
3	127	38	70	68	463	483	431	356	141	49	30	30
4	58	36	135	64	342	447	398	370	131	48	30	29
5	52	37	354	62	330	419	390	352	131	47	29	29
6	51	37	102	60	348	401	359	309	127	45	28	29
7	48	37	153	62	362	398	339	276	151	46	27	28
8	47	36	104	57	345	423	330	270	122	44	28	27
9	45	36	77	63	423	362	336	261	112	43	28	27
10	44	36	71	186	495	309	362	230	106	43	28	27
11	44	36	69	120	373	297	404	250	100	42	30	27
12	44	36	66	94	336	294	415	235	92	41	30	26
13	44	36	37	86	408	342	380	245	92	40	30	26
14	42	57	28	109	345	370	366	220	88	40	30	26
15	41	50	44	1240	297	356	370	203	85	40	30	26
16	40	43	57	729	305	495	356	193	81	40	30	26
17	40	40	54	348	991	519	315	189	78	38	40	26
18	50	44	61	238	1000	431	285	191	77	38	34	26
19	63	85	61	187	1150	370	270	205	72	38	77	26
20	56	58	55	161	2560	342	261	232	70	38	94	26
21	44	45	51	155	2760	333	250	232	67	38	45	26
22	44	40	50	155	1990	333	238	212	64	36	39	26
23	44	38	60	157	2400	336	225	197	63	35	36	26
24	44	38	85	153	1740	345	225	181	59	34	34	26
25	43	38	108	145	1230	408	228	181	57	34	34	26
26	44	37	143	137	992	439	240	177	55	33	33	26
27	42	40	193	135	835	404	264	175	54	33	32	26
28	42	45	157	124	725	415	270	175	52	32	32	25
29	42	55	118	120	650	479	297	173	52	30	33	24
30	41	64	96	108	---	527	327	167	51	30	32	24
31	40	---	86	133	---	540	---	157	---	31	31	---
TOTAL	1514	1295	2850	5608	24538	12733	9962	7289	2720	1224	1100	802
MEAN	48.8	43.2	91.9	181	846	411	332	235	90.7	39.5	35.5	26.7
MAX	127	85	354	1240	2760	589	548	370	151	49	94	30
MIN	40	36	28	57	119	294	225	157	51	30	27	24
AC-FT	3000	2570	5650	11120	48670	25260	19760	14460	5400	2430	2180	1590

WTR YR 1968 TOTAL 71635 MEAN 196 MAX 2760 MIN 24 AC-FT 142100

11408850 MIDDLE YUBA RIVER NEAR CAMPTONVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	36	101	145	725	437	1240	948	780	144	57	38
2	25	83	94	140	630	401	1130	910	727	138	56	38
3	25	336	84	147	582	371	952	859	737	134	55	37
4	25	181	81	198	558	347	838	762	715	128	54	37
5	25	97	79	226	562	341	1140	806	644	123	53	36
6	26	71	78	234	538	341	998	1020	597	118	52	36
7	26	60	76	233	489	323	853	1350	539	107	52	36
8	26	54	76	219	450	310	777	1620	494	108	51	38
9	25	51	77	192	542	300	736	2020	634	100	50	37
10	25	49	162	170	582	290	709	2210	653	96	50	36
11	28	53	325	272	755	282	802	2270	614	92	50	35
12	116	303	176	492	918	278	934	2400	604	88	48	35
13	119	145	146	1690	690	268	976	2280	613	85	109	35
14	88	103	227	1610	650	268	918	2110	683	82	92	35
15	65	114	479	803	912	280	803	1800	691	79	47	34
16	50	105	357	536	834	312	745	1680	670	76	45	35
17	44	95	215	401	715	380	783	1800	625	73	44	35
18	41	129	170	380	622	437	1040	2020	600	70	44	35
19	39	185	154	3130	570	431	999	1960	615	68	43	36
20	37	134	130	8470	522	437	1020	1670	535	66	42	36
21	37	108	113	8400	486	489	1140	1570	443	64	42	35
22	36	95	110	3780	440	486	1310	1680	368	63	41	35
23	35	90	135	2070	431	526	1390	1870	326	62	41	35
24	34	108	417	1480	447	530	1120	1960	288	61	41	34
25	33	113	633	3380	428	542	904	1820	215	59	40	34
26	32	98	350	5500	386	598	807	1730	192	61	40	34
27	32	87	235	2520	359	680	758	1660	180	63	40	33
28	31	81	214	1700	454	828	790	1560	171	62	39	33
29	37	77	200	1210	---	942	907	1430	160	61	39	33
30	54	90	174	963	---	1080	954	1430	152	60	39	32
31	41	---	155	786	---	1250	---	816	---	58	39	---
TOTAL	1282	3331	6023	51477	16277	14785	28473	50021	15265	2649	1535	1058
MEAN	41.4	111	194	1661	581	477	949	1614	509	85.5	49.5	35.3
MAX	119	336	633	8470	918	1250	1390	2400	780	144	109	38
MIN	25	36	76	140	359	268	709	762	152	58	39	32
AC-FT	2540	6610	11950	102100	32290	29330	56480	99220	30280	5250	3040	2100

CAL YR 1968 TOTAL 76612 MEAN 209 MAX 2760 MIN 24 AC-FT 152000
WTR YR 1969 TOTAL 192176 MEAN 527 MAX 8470 MIN 25 AC-FT 381200

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	39	38	266	760	680	250	215	389	65	37	34
2	32	39	38	235	660	554	248	225	380	61	36	34
3	32	39	37	208	590	468	241	235	371	58	36	33
4	33	39	37	197	546	437	233	252	356	56	36	33
5	33	97	36	178	503	416	231	272	338	52	35	34
6	33	137	36	168	464	398	233	298	310	51	35	33
7	33	106	36	164	434	389	235	280	278	49	35	32
8	41	94	45	176	410	522	231	272	161	48	35	30
9	45	74	45	520	389	472	231	290	163	47	35	30
10	38	65	57	1050	371	461	235	300	233	47	34	29
11	36	59	123	653	362	431	262	275	209	47	34	28
12	35	57	105	695	434	410	248	258	167	46	33	27
13	35	56	178	1580	503	413	243	245	146	45	34	27
14	39	55	105	3340	482	472	250	250	139	44	33	28
15	90	53	78	2160	444	489	233	272	125	43	33	28
16	190	61	67	5880	484	450	235	383	118	42	33	27
17	129	60	60	3970	715	437	221	550	113	43	33	27
18	85	55	58	2530	550	401	213	640	106	43	34	27
19	57	51	266	2000	486	377	243	482	101	43	42	27
20	50	50	1180	2310	440	353	227	510	98	42	41	27
21	47	48	2530	7040	410	338	213	437	95	42	35	27
22	45	47	1080	6710	389	323	205	389	91	42	33	27
23	44	46	1130	3400	368	320	199	386	82	41	33	26
24	43	45	2060	4290	350	320	191	392	77	41	33	26
25	42	43	2460	2450	335	320	187	386	76	41	33	26
26	42	43	1310	1710	323	315	207	398	77	42	33	28
27	41	42	780	2950	318	302	207	413	78	39	34	29
28	41	42	610	1840	503	290	197	566	74	39	35	28
29	40	41	477	1370	---	288	193	506	73	38	35	28
30	40	40	369	1050	---	278	199	461	69	38	35	28
31	39	---	309	855	---	265	---	431	---	38	35	---
TOTAL	1563	1723	15740	61945	13023	12389	6741	11269	5093	1413	1078	868
MEAN	50.4	57.4	508	1998	465	400	225	364	170	45.6	34.8	28.9
MAX	190	137	2530	7040	760	680	262	640	389	65	42	34
MIN	32	39	36	164	318	265	187	215	69	38	33	26
AC-FT	3100	3420	31220	122900	25830	24570	13370	22350	10100	2800	2140	1720

CAL YR 1969 TOTAL 200566 MEAN 549 MAX 8470 MIN 32 AC-FT 397800
WTR YR 1970 TOTAL 132845 MEAN 364 MAX 7040 MIN 26 AC-FT 263500

11408880 MIDDLE YUBA RIVER BELOW OUR HOUSE DAM, CALIF.

LOCATION.--Lat 39°24'42", long 120°59'49", in SW¼NW¼ sec.20, T.18 N., R.9 E., Sierra County, Tahoe National Forest, on right bank 400 ft downstream from Our House Dam and 4.0 miles southeast of Camptonville.

DRAINAGE AREA.--145 sq mi.

PERIOD OF RECORD.--October 1968 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 1,957.51 ft above mean sea level.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height feet) for the water years 1969-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1969	Jan. 20, 1969	10,900	10.20	Oct. 23, 1968	26
1970	Jan. 21, 1970	12,500	10.70	Oct. 3, 1969, Sept. 13, 30, 1970	29

Period of record: Maximum discharge, 12,500 cfs Jan. 21, 1970 (gage height, 10.70 ft); minimum daily, 26 cfs Oct. 23, 1968.

REMARKS.--Records good. Natural flow of stream affected by Jackson Meadows Reservoir since November 1964 (see station 11407800), Milton-Bowman tunnel (see station 11408000) which diverts above station to Bowman Lake (see station 11415500), and by Lohman Ridge tunnel since October 1968 which diverts 400 ft upstream to Oregon Creek and thence to Bullards Bar Reservoir via Camptonville tunnel. Other small diversions above station. See schematic diagram of Yuba River basin elsewhere in this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	45	58	173	752	514	1360	950	84	68	31	31
2	28	47	59	169	677	470	1250	904	81	67	31	31
3	28	62	59	175	620	430	1040	864	82	67	31	31
4	28	59	58	226	582	403	896	791	81	66	31	31
5	28	56	58	258	605	397	1250	812	79	66	31	31
6	27	55	58	265	605	400	1120	1010	78	66	31	31
7	27	53	57	263	543	385	920	1340	78	66	31	31
8	27	52	57	249	490	368	840	1520	76	66	31	31
9	27	52	57	220	596	356	812	1840	80	66	31	31
10	27	52	58	194	677	345	791	1970	81	65	31	31
11	29	51	65	282	860	335	848	2010	79	65	31	31
12	108	60	63	546	1280	330	970	2150	79	65	31	31
13	114	57	60	1610	812	322	1010	2070	79	65	32	30
14	90	56	60	1620	688	320	950	1900	81	65	33	30
15	71	56	74	850	1010	330	848	1620	81	43	31	30
16	54	56	66	571	888	368	805	1510	81	30	31	30
17	45	56	93	452	752	440	833	1620	80	30	31	30
18	42	56	178	431	666	514	1070	1780	78	30	31	30
19	40	59	164	3340	600	502	1030	1720	78	30	31	30
20	38	59	138	8550	564	506	1060	1530	76	30	31	30
21	37	58	122	8650	518	574	1180	1460	74	30	31	30
22	27	58	116	4210	474	569	1330	1530	72	30	31	30
23	26	57	145	1850	474	620	1370	1670	72	30	31	30
24	30	57	440	1390	494	635	1110	1740	71	30	31	30
25	32	58	674	2880	478	650	904	1630	70	30	31	30
26	33	58	415	6090	437	699	819	1570	69	30	31	30
27	33	58	279	2770	413	798	784	1510	68	30	31	30
28	33	58	253	1730	522	912	805	1450	68	30	31	30
29	33	57	241	1280	---	1040	912	940	68	31	31	30
30	46	57	211	1010	---	1190	950	574	68	31	31	30
31	49	---	187	833	---	1380	---	95	---	31	31	---
TOTAL	1284	1675	4623	53137	18077	17102	29867	44080	2292	1449	964	912
MEAN	41.4	55.8	149	1714	646	552	996	1422	76.4	46.7	31.1	30.4
MAX	114	62	674	8650	1280	1380	1370	2150	84	68	33	31
MIN	26	45	57	169	413	320	784	95	68	30	31	30
AC-FT	2550	3320	9170	105400	35860	33920	59240	87430	4550	2870	1910	1810
(+)	180	3770	3650	4200	0	0	1360	19070	27940	2760	1350	440

WTR YR 1969 TOTAL 175462 MEAN 481 MAX 8650 MIN 26 AC-FT 348000

† DIVERSION, IN ACRE-FEET, TO LOHMAN RIDGE TUNNEL.

11408880 MIDDLE YUBA RIVER BELOW OUR HOUSE DAM, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	31	31	39	615	42	34	31	32	36	30	30
2	30	31	31	38	518	36	35	32	32	36	30	30
3	29	31	31	38	433	35	34	31	32	36	30	31
4	30	31	31	37	241	35	34	32	32	36	30	31
5	30	32	31	37	35	35	34	32	32	36	30	31
6	30	32	31	36	35	35	34	32	32	32	30	31
7	30	32	31	36	35	35	34	32	32	31	30	31
8	30	32	31	36	34	36	34	31	32	31	30	30
9	30	31	32	171	34	36	34	32	32	31	30	30
10	30	31	32	700	34	36	34	32	32	31	30	30
11	30	31	33	383	34	35	34	32	32	31	30	30
12	30	31	33	409	35	35	35	31	31	31	30	30
13	30	31	33	1150	35	35	34	32	31	31	30	29
14	30	31	33	3330	35	35	34	32	31	31	30	30
15	31	31	32	2070	35	36	34	32	31	31	30	30
16	34	31	32	5270	36	36	34	32	31	31	30	30
17	34	31	32	4160	56	36	34	33	31	31	30	30
18	33	31	32	2440	35	35	34	34	31	31	30	30
19	32	31	33	1920	35	35	34	33	31	31	31	30
20	32	31	416	2200	35	35	34	33	31	31	31	30
21	32	31	2160	6580	35	35	34	33	31	31	31	30
22	32	31	552	6850	35	35	34	40	31	31	30	30
23	32	31	539	3560	35	35	34	32	39	31	30	30
24	32	31	3720	4350	35	35	34	32	37	31	30	30
25	32	31	2130	2490	35	35	34	32	37	31	30	30
26	32	31	950	1640	35	35	34	32	37	31	30	30
27	32	31	564	2700	35	35	34	32	37	31	30	30
28	32	31	372	1770	35	35	34	33	37	31	30	30
29	31	31	261	1320	---	35	33	33	37	31	30	30
30	31	31	178	952	---	35	31	33	37	30	30	29
31	31	---	87	751	---	35	---	33	---	30	30	---
TOTAL	964	934	12534	57463	2665	1099	1018	1006	991	985	933	903
MEAN	31.1	31.1	404	1854	95.2	35.5	33.9	32.5	33.0	31.8	30.1	30.1
MAX	34	32	3720	6850	615	42	35	40	39	36	31	31
MIN	29	31	31	36	34	35	31	31	31	30	30	29
AC-FT	1910	1850	24860	114000	5290	2180	2020	2000	1970	1950	1850	1790
(+)	1420	1820	8640	17900	22430	24180	12330	21980	8870	1050	450	60

CAL YR 1969 TOTAL 182312 MEAN 499 MAX 8650 MIN 29 AC-FT 361600
WTR YR 1970 TOTAL 81495 MEAN 223 MAX 6850 MIN 29 AC-FT 161600

+ DIVERSION, IN ACRE-FEET, TO LOHMAN RIDGE TUNNEL.

11409000 MIDDLE YUBA RIVER ABOVE OREGON CREEK, NEAR NORTH SAN JUAN, CALIF.

LOCATION.--Lat 39°23'36", long 121°04'50", in SE¼ sec.28, T.18 N., R.8 E., Nevada County, Tahoe National Forest, on left bank 1,000 ft upstream from Oregon Creek and 2 miles northeast of North San Juan.

DRAINAGE AREA.--162 sq mi.

PERIOD OF RECORD.--October 1940 to September 1969 (discontinued). Monthly and yearly discharges for the water year 1941, published in WSP 1315-A. Prior to October 1949, published as Middle Fork Yuba River above Oregon Creek. October 1949 to September 1960 published as Middle Yuba River above Oregon Creek. If record for Oregon Creek near North San Juan is subtracted from record published as Middle Fork Yuba River near North San Juan, a record equivalent to that at this site can be obtained for the period 1910-41.

GAGE.--Water-stage recorder. Altitude of gage is 1,440 ft (from topographic map).

AVERAGE DISCHARGE.--29 years, 359 cfs (260,100 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (2,400 cfs), water years 1966-69

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Apr. 11, 1966	0100	*990	5.15	Jan. 29, 1967	0930	4,820	8.68	Feb. 20, 1968	0330	*3,950	8.08
				Mar. 16, 1967	2100	*5,680	9.23				
Dec. 2, 1966	2400	2,860	7.28	May 24, 1967	2300	2,540	7.02	Jan. 20, 1969	1830	*11,300	12.09
Jan. 21, 1967	2200	4,200	8.26	June 12, 1967	2300	2,990	7.38				

Annual minimum daily discharge, water years 1966-69

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Aug. 21, 22, 1966	32	1968	Aug. 8, 1968	29
1967	Oct. 1-3, 1966	34	1969	Oct. 23, 1968	30

Period of record: Maximum discharge, 31,600 cfs Jan. 31, 1963 (gage height, 18.55 ft), from rating curve extended above 15,000 cfs on basis of slope-area measurement at gage height 15.25 ft; minimum, 10 cfs Jan. 3, 1950.

REMARKS.--Records good except those for period of no gage-height record Aug. 30 to Sept. 30, 1966, and February and March 1969, which are poor. Natural flow of stream is affected by Jackson Meadows Reservoir since November 1964 (see station 11407800), Milton-Bowman tunnel (see station 11408000) which diverts above station to Bowman Lake (see station 11415500), Lohman Ridge tunnel since October 1968, and by other small diversions above station. Water-quality records for the water years 1966-69 are published in the reports of the Geological Survey.

REVISIONS.--WSP 1395: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	39	93	130	161	192	775	380	130	56	46	36
2	41	40	89	109	151	181	801	380	123	56	44	36
3	40	42	89	98	139	163	750	408	117	56	43	36
4	40	41	91	182	149	155	705	437	111	56	42	36
5	42	42	91	799	252	153	670	461	108	55	42	36
6	42	41	89	675	453	157	670	437	103	54	41	35
7	42	42	88	461	320	214	655	404	106	52	39	33
8	41	56	85	358	246	249	631	411	105	51	38	33
9	40	63	83	311	204	282	622	422	99	52	39	33
10	40	51	81	260	183	670	900	663	95	51	37	33
11	40	47	81	219	163	595	894	536	91	51	37	34
12	40	50	98	192	149	485	878	437	88	50	38	35
13	40	58	88	178	139	759	695	394	85	49	38	35
14	46	144	81	183	134	715	604	369	82	48	38	36
15	65	103	78	183	130	660	582	336	80	47	38	36
16	53	83	74	195	127	600	595	308	78	46	38	36
17	46	138	71	178	127	481	650	293	74	46	38	36
18	44	677	70	165	130	414	655	275	72	46	36	36
19	43	283	69	151	151	422	541	269	70	46	34	36
20	43	139	68	141	159	380	465	272	69	46	33	36
21	40	106	67	132	153	345	422	260	69	46	32	36
22	40	91	66	130	161	333	400	249	68	46	32	36
23	40	115	64	123	209	326	386	227	66	44	33	36
24	39	422	83	119	260	349	404	214	65	42	33	36
25	37	241	135	115	232	386	429	195	63	40	33	36
26	37	153	89	112	209	433	469	185	62	39	36	36
27	36	120	83	111	192	493	441	176	61	39	36	36
28	36	111	143	108	183	568	408	165	58	41	36	35
29	37	105	252	115	---	631	394	153	57	44	36	34
30	38	98	209	174	---	675	376	147	56	44	36	34
31	39	---	187	157	---	715	---	138	---	46	36	---
TOTAL	1289	3741	3035	6564	5266	13181	17867	10001	2511	1485	1158	1058
MEAN	41.6	125	97.9	212	188	425	596	323	83.7	47.9	37.4	35.3
MAX	65	677	252	799	453	759	900	663	130	56	46	36
MIN	36	39	64	98	127	153	376	138	56	39	32	33
AC-FT	2560	7420	6020	13020	10450	26140	35440	19840	4980	2950	2300	2100

CAL YR 1965 TOTAL 139600 MEAN 382 MAX 4410 MIN 36 AC-FT 276900
WTR YR 1966 TOTAL 67156 MEAN 184 MAX 900 MIN 32 AC-FT 133200

11409000 MIDDLE YUBA RIVER ABOVE OREGON CREEK, NEAR NORTH SAN JUAN, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	37	521	135	1640	248	550	447	1480	1240	91	59
2	34	38	1340	132	1140	248	526	461	1220	1140	90	58
3	34	39	1480	128	855	250	506	496	1060	1040	85	57
4	35	39	650	125	720	242	510	566	1130	394	84	58
5	36	39	1300	132	642	232	526	670	1440	327	82	61
6	37	60	1560	121	582	225	600	650	1440	300	79	59
7	36	75	1030	120	550	222	742	780	1490	272	78	57
8	35	52	658	115	510	220	680	830	1530	252	78	57
9	35	47	489	115	475	225	598	920	1530	235	76	57
10	35	44	468	112	464	240	602	1010	1540	220	75	57
11	35	43	436	110	444	342	582	900	1540	209	73	57
12	36	44	372	109	444	351	530	800	1770	201	72	56
13	37	44	351	107	464	336	526	755	2120	193	71	55
14	38	45	351	106	461	312	554	775	1750	187	71	54
15	39	124	305	107	408	327	546	942	1680	177	68	53
16	39	328	290	109	378	3350	510	1200	1720	165	67	53
17	39	141	275	107	321	3380	534	1360	1830	159	67	53
18	37	108	260	106	339	1980	574	1390	1970	149	66	53
19	36	94	248	103	327	1440	570	1370	2040	141	65	54
20	36	809	238	198	302	1160	522	1530	2020	130	66	54
21	39	568	228	2380	290	1060	510	1680	1940	126	65	53
22	38	404	213	1680	280	1020	500	1900	1820	121	64	54
23	38	187	203	735	275	1160	542	2160	1640	116	64	55
24	38	139	193	602	270	1140	598	2380	1540	114	63	55
25	37	119	185	510	278	888	554	2340	1500	110	63	54
26	36	106	177	530	260	790	526	2250	1530	106	64	53
27	36	101	165	725	252	705	534	2170	1450	103	65	52
28	37	212	155	1240	245	646	503	2070	1380	102	63	52
29	37	1220	151	3440	---	590	468	1890	1340	100	62	52
30	37	516	147	2470	---	582	461	1740	1290	97	61	53
31	37	---	135	2590	---	586	---	1690	---	94	62	---
TOTAL	1133	5822	14574	19299	13616	24497	16484	40122	47730	8320	2200	1655
MEAN	36.5	194	470	623	486	790	549	1294	1591	268	71.0	55.2
MAX	39	1220	1560	3440	1640	3380	742	2380	2120	1240	91	61
MIN	34	37	135	103	245	220	461	447	1060	94	61	52
AC-FT	2250	11550	28910	38280	27010	48590	32700	79580	94670	16500	4360	3280

CAL YR 1966 TOTAL 80620 MEAN 221 MAX 1560 MIN 32 AC-FT 159900
WTR YR 1967 TOTAL 195452 MEAN 535 MAX 3440 MIN 34 AC-FT 387700

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	43	71	83	157	562	518	333	161	59	34	43
2	74	43	61	76	265	510	472	333	159	59	36	39
3	143	42	76	72	534	472	430	345	153	58	33	36
4	68	41	131	68	396	450	399	366	143	57	31	36
5	59	42	386	68	375	440	393	351	145	56	31	36
6	56	43	62	70	390	405	363	318	147	55	30	36
7	53	43	164	73	399	393	345	295	163	55	30	36
8	51	41	123	64	381	419	333	278	137	54	29	35
9	50	42	88	66	436	387	336	272	126	50	30	35
10	50	41	75	213	510	339	357	270	116	51	30	36
11	49	41	73	143	396	315	387	268	108	50	31	35
12	48	41	70	102	345	310	402	255	102	50	32	34
13	48	42	50	91	433	387	378	268	100	50	32	34
14	47	60	37	110	378	422	360	242	97	50	34	34
15	45	57	50	1210	324	408	366	222	96	49	36	34
16	45	49	65	740	324	548	354	205	90	46	34	32
17	46	45	58	378	999	590	327	203	88	45	45	31
18	50	48	63	270	996	500	300	203	83	44	43	31
19	64	97	62	211	1090	433	290	218	80	44	60	31
20	64	73	58	179	2850	384	282	248	76	43	114	31
21	51	55	55	165	2920	372	272	248	75	41	62	32
22	50	49	55	165	2060	363	260	230	73	39	50	32
23	50	47	61	167	2410	360	250	209	71	39	46	32
24	49	46	84	161	1790	366	248	195	68	37	43	31
25	49	45	109	155	1200	405	250	195	65	37	42	31
26	49	44	139	153	936	454	260	191	65	36	40	31
27	46	47	187	153	790	416	278	189	64	36	39	31
28	46	57	159	143	680	416	282	187	64	35	40	31
29	45	61	123	149	614	454	300	185	61	33	39	30
30	44	88	103	153	---	492	321	183	60	32	39	31
31	44	---	90	165	---	510	---	173	---	32	39	---
TOTAL	1686	1513	2988	6016	25378	13282	10113	7678	3036	1422	1254	1007
MEAN	54.4	50.4	96.4	194	875	428	337	248	101	45.9	40.5	33.6
MAX	143	97	386	1210	2920	590	518	366	163	59	114	43
MIN	44	41	37	64	157	310	248	173	60	32	29	30
AC-FT	3340	3000	5930	11930	50340	26340	20060	15230	6020	2820	2490	2000

CAL YR 1967 TOTAL 180110 MEAN 493 MAX 3440 MIN 37 AC-FT 357200
WTR YR 1968 TOTAL 75373 MEAN 206 MAX 2920 MIN 29 AC-FT 149500

11409000 MIDDLE YUBA RIVER ABOVE OREGON CREEK, NEAR NORTH SAN JUAN, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMRER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	49	77	177	835	532	1280	942	96	73	33	34
2	32	64	71	168	715	488	1190	906	93	73	34	33
3	33	100	67	168	645	456	1010	855	92	72	34	33
4	33	72	66	217	692	430	865	765	92	72	33	33
5	33	63	64	253	665	422	1180	775	89	72	34	35
6	34	61	64	259	690	419	1110	972	87	72	34	34
7	34	59	63	259	610	394	918	1300	86	71	34	34
8	34	58	63	245	576	380	830	1510	86	71	34	33
9	32	58	62	217	680	370	785	1850	89	70	34	33
10	31	57	84	190	745	345	745	2010	90	70	34	33
11	35	62	93	310	835	340	815	2050	92	69	34	34
12	110	86	75	645	1180	330	936	2160	90	67	35	34
13	115	70	72	1960	865	320	984	2060	90	70	32	34
14	90	66	92	1960	780	320	918	1930	90	67	35	34
15	73	73	127	981	1190	335	805	1660	91	56	33	34
16	56	67	104	646	1070	355	750	1580	90	36	34	34
17	50	64	92	481	860	390	775	1660	89	36	33	34
18	45	71	200	447	750	465	1000	1840	87	36	34	35
19	43	70	179	3450	675	500	990	1800	87	36	33	35
20	41	67	150	9300	605	520	996	1590	86	36	33	35
21	40	66	130	9640	568	540	1100	1500	84	35	34	36
22	33	64	123	4730	508	575	1260	1570	83	36	34	36
23	30	63	150	2300	508	600	1350	1730	82	35	34	35
24	34	67	446	1730	524	630	1130	1820	80	35	34	34
25	37	67	855	3180	516	650	918	1710	79	35	34	34
26	36	66	476	6170	464	675	815	1640	77	35	34	34
27	36	64	296	2840	419	770	760	1580	76	35	35	34
28	36	63	270	1930	540	880	785	1500	76	34	34	34
29	39	62	259	1460	---	990	895	1100	75	34	33	34
30	49	70	222	1140	---	1100	948	600	75	34	34	34
31	53	---	192	912	---	1270	---	120	---	33	34	---
TOTAL	1408	1989	5284	58365	19710	16791	28843	45085	2579	1606	1048	1023
MEAN	45.4	66.3	170	1883	704	542	961	1454	86.0	51.8	33.8	34.1
MAX	115	100	855	9640	1190	1270	1350	2160	96	73	35	36
MIN	30	49	62	168	419	320	745	120	75	33	32	33
AC-FT	2790	3950	10480	115800	39090	33300	57210	89430	5120	3190	2080	2030

CAL YR 1968 TOTAL 77867 MEAN 213 MAX 2920 MIN 29 AC-FT 154400
WTR YR 1969 TOTAL 183731 MEAN 503 MAX 9640 MIN 30 AC-FT 364400

11409300 OREGON CREEK AT CAMPTONVILLE, CALIF.

LOCATION.--Lat 39°26'46", long 121°02'43", in SE¼NE¼ sec.11, T.18 N., R.8 E., Yuba County, Tahoe National Forest, on right bank 25 ft downstream from County bridge, 0.5 mile southeast of Camptonville, and 5.5 miles upstream from mouth.

DRAINAGE AREA.--23.0 sq mi.

PERIOD OF RECORD.--August 1967 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 2,230 ft (from topographic map).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (500 cfs), August 1967 to September 1970

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
1967	-	-	-	Jan. 21, 1969	0515	*2,510	9.30	Jan. 14, 1970	1200	1,980	8.59
				Jan. 26, 1969	0445	2,080	8.73	Jan. 16, 1970	0745	2,840	9.71
Feb. 19, 1968	2300	*1,160	6.98					Jan. 21, 1970	2030	*3,130	10.07
				Dec. 21, 1969	1330	1,180	7.20	Jan. 24, 1970	0115	1,420	7.69
Jan. 13, 1969	1830	1,110	7.08	Dec. 24, 1969	0445	1,690	8.13	Jan. 27, 1970	0445	975	6.81

Annual minimum daily discharge, August 1967 to September 1970

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1967	-	-	1969	Sept.15, 16, 1969	2.2
1968	Sept.29, 30, 1968	2.3	1970	Sept.14, 17-19, 1970	1.7

Period of record: Maximum discharge, 3,130 cfs Jan. 21, 1970 (gage height, 10.07 ft); minimum daily, 1.7 cfs Sept. 14, 17-19, 1970.

REMARKS.--Records good. No regulation or diversion above station. See schematic diagram of Yuba River basin elsewhere in this report.

DISCHARGE, IN CUBIC FEET PER SECOND, AUGUST TO SEPTEMBER 1967

DAY	AUG	SEP	DAY	AUG	SEP	DAY	AUG	SEP	DAY	AUG	SEP	DAY	AUG	SEP	DAY	AUG	SEP
1		4.4	6		4.5	11		4.4	16		3.8	21		3.4	26		3.5
2		4.4	7		4.4	12		4.4	17		3.8	22		3.4	27		3.4
3		4.4	8		4.4	13		4.4	18		4.5	23		3.6	28		3.4
4		4.4	9		4.4	14		4.0	19		4.0	24		3.8	29		3.4
5		4.7	10		4.4	15		4.0	20		3.6	25		3.8	30	4.5	3.4
															31	4.4	

TOTAL.. 120.4
MEAN.. 401
AC-FT.. 239

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	4.4	10	22	38	157	127	32	13	5.3	3.6	2.7
2	27	4.4	8.7	21	84	139	115	30	12	5.3	3.3	2.8
3	22	4.4	14	19	154	124	102	29	12	5.3	3.1	2.8
4	7.4	4.4	47	18	113	113	94	28	12	5.1	2.8	2.8
5	7.1	4.4	112	17	108	108	87	27	12	4.9	2.8	2.7
6	6.9	4.5	29	16	112	100	80	26	14	4.7	2.7	2.7
7	5.8	4.5	52	15	118	97	75	25	14	4.5	2.7	2.7
8	5.5	4.5	30	16	123	110	72	24	12	4.5	2.7	2.7
9	4.9	4.5	21	17	138	99	69	23	11	4.4	2.7	2.7
10	4.7	4.5	18	49	184	87	67	22	11	4.4	2.7	2.6
11	4.7	4.5	17	34	145	79	68	22	10	4.2	2.7	2.6
12	4.7	4.5	16	26	137	79	67	22	9.8	4.0	2.7	2.6
13	4.5	4.5	10	25	172	91	63	24	9.6	4.0	2.7	2.6
14	4.4	10	8.5	50	140	101	59	24	9.4	4.2	2.8	2.7
15	4.0	7.6	10	430	121	107	58	22	9.3	4.2	3.1	2.8
16	4.2	5.8	10	210	150	166	55	20	8.7	4.2	3.1	2.7
17	4.2	5.5	9.5	125	500	165	51	19	7.9	3.8	5.1	2.4
18	4.2	6.2	10	90	380	136	48	18	7.9	3.8	4.4	2.4
19	4.2	20	10	71	460	123	45	18	7.6	3.6	12	2.4
20	4.2	11	11	59	730	115	43	18	7.4	3.4	11	2.6
21	4.2	8.2	10	58	870	113	42	18	7.6	3.4	5.8	2.7
22	4.4	6.7	10	56	574	112	40	19	7.1	3.3	5.3	2.8
23	4.4	6.2	12	57	562	112	38	18	6.7	3.3	4.2	2.7
24	4.5	6.0	15	53	444	111	36	17	6.4	3.1	3.8	2.6
25	4.5	5.8	21	50	320	128	35	18	6.0	3.1	3.6	2.4
26	4.4	5.8	28	48	255	131	34	16	6.0	3.1	3.4	2.4
27	4.4	6.0	40	46	220	123	34	15	5.8	3.1	3.3	2.4
28	4.4	8.7	35	42	192	119	33	14	5.5	3.0	3.3	2.4
29	4.4	9.3	31	42	173	122	32	14	5.3	3.0	3.1	2.3
30	4.4	12	27	43	---	123	32	14	5.3	3.0	3.0	2.3
31	4.4	---	24	54	---	122	---	13	---	3.3	2.8	---
TOTAL	186.6	198.8	706.7	1879	7717	3612	1801	649	272.3	122.5	120.3	78.0
MEAN	6.02	6.63	22.8	60.6	266	117	60.0	20.9	9.08	3.95	3.88	2.60
MAX	27	20	112	430	870	166	127	32	14	5.3	12	2.8
MIN	3.6	4.4	8.5	15	38	79	32	13	5.3	3.0	2.7	2.3
AC-FT	370	394	1400	3730	15310	7160	3570	1290	540	243	239	155

WTR YR 1968 TOTAL 17343.2 MEAN 47.4 MAX 870 MIN 2.3 AC-FT 34400

NOTE.--NO GAGE-HEIGHT RECORD FEB. 4-21.

11409300 OREGON CREEK AT CAMPTONVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	4.8	24	56	195	106	346	163	35	10	3.9	2.6
2	2.4	23	21	53	167	97	321	154	32	9.8	3.8	2.5
3	2.5	90	19	52	151	89	283	146	30	9.4	3.8	2.4
4	2.5	36	18	64	139	85	251	132	28	9.0	3.6	2.4
5	2.6	20	17	74	140	85	328	125	27	8.8	3.5	2.4
6	2.7	15	17	79	130	86	298	138	25	8.6	3.5	2.4
7	2.7	12	17	82	113	81	257	152	24	8.3	3.4	2.4
8	2.7	9.9	18	80	104	79	232	160	23	8.2	3.4	2.6
9	2.6	8.9	19	73	160	76	215	164	23	8.0	3.4	2.6
10	2.7	8.1	79	65	183	72	206	163	23	7.7	3.3	2.5
11	3.6	9.4	119	86	229	70	215	157	24	7.4	3.5	2.4
12	27	70	60	150	314	68	231	151	22	7.1	3.3	2.4
13	15	28	47	642	228	67	235	137	21	6.8	3.3	2.3
14	10	21	78	601	200	69	221	125	20	6.6	3.2	2.6
15	8.0	24	182	324	267	76	197	111	19	6.4	3.1	2.2
16	5.5	24	136	230	239	86	180	102	17	6.2	3.0	2.2
17	4.6	23	83	181	204	120	178	98	17	6.0	3.0	2.3
18	4.2	30	63	178	187	149	207	96	17	5.7	3.0	2.4
19	3.9	31	55	1070	170	150	203	90	16	5.6	3.0	2.6
20	3.8	25	46	2000	156	151	199	81	15	5.3	2.9	2.6
21	3.6	21	40	2190	138	173	206	74	15	5.1	2.9	2.7
22	3.6	19	36	1340	123	178	219	70	14	5.1	2.8	2.7
23	3.6	17	41	642	120	192	237	67	14	5.1	2.7	2.6
24	3.4	23	163	459	115	199	209	63	13	5.1	2.7	2.4
25	3.4	24	259	980	109	206	180	58	13	4.9	2.8	2.4
26	3.3	21	143	1390	99	217	160	55	12	4.8	2.8	2.4
27	3.3	19	96	689	91	239	147	51	13	4.7	2.7	2.4
28	3.4	17	87	455	111	266	143	47	13	4.5	2.7	2.4
29	6.0	15	80	325	---	295	153	43	11	4.4	2.8	2.4
30	12	23	69	260	---	328	164	40	11	3.9	2.8	2.3
31	5.9	---	61	217	---	358	---	37	---	3.9	2.6	---
TOTAL	163.0	712.1	2193	15087	4582	4513	6621	3250	587	202.4	97.2	73.5
MEAN	5.26	23.7	70.7	487	164	146	221	105	19.6	6.53	3.14	2.45
MAX	27	90	259	2190	314	358	346	164	35	10	3.9	2.7
MIN	2.4	4.8	17	52	91	67	143	37	11	3.9	2.6	2.2
AC-FT	323	1410	4350	29930	9090	8950	13130	6450	1160	401	193	146

CAL YR 1968 TOTAL 19319.2 MEAN 52.8 MAX 870 MIN 2.3 AC-FT 38320
WTR YR 1969 TOTAL 38081.2 MEAN 104 MAX 2190 MIN 2.2 AC-FT 75530

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	4.2	5.1	76	185	252	40	25	10	6.8	2.7	2.0
2	2.4	4.3	5.1	65	156	198	38	24	10	6.2	2.7	1.9
3	2.5	4.4	5.1	58	135	156	37	23	10	5.8	2.7	1.9
4	2.5	4.4	5.0	53	120	136	35	23	10	5.5	2.6	2.0
5	2.6	22	4.9	47	106	121	33	23	9.8	5.1	2.6	2.2
6	2.7	30	5.0	44	97	108	32	22	9.8	4.9	2.4	2.4
7	2.7	19	4.9	41	89	104	31	22	9.6	4.5	2.4	2.3
8	3.9	17	7.0	44	82	195	30	22	9.6	4.5	2.4	2.1
9	5.1	12	7.2	93	75	158	29	22	9.4	4.5	2.4	2.1
10	3.3	9.9	11	216	70	151	28	24	9.2	4.4	2.3	2.1
11	2.9	8.5	31	175	67	137	29	23	9.0	4.4	2.1	2.1
12	2.8	7.7	38	202	76	124	27	23	8.8	4.4	2.1	2.2
13	2.9	7.2	56	574	97	116	28	22	8.8	4.2	2.0	2.1
14	3.7	6.8	25	1290	103	113	31	21	8.6	4.0	2.0	1.7
15	14	6.7	19	785	94	108	28	20	8.4	3.8	2.0	1.8
16	27	7.5	15	1640	131	103	30	20	8.4	3.6	2.0	1.8
17	15	6.7	13	1040	239	98	29	19	8.2	3.6	2.0	1.7
18	10	6.5	13	668	163	90	27	18	8.0	3.6	2.0	1.7
19	7.3	6.3	83	587	137	84	33	18	8.0	3.4	2.0	1.7
20	5.9	6.2	290	623	119	78	29	17	7.8	3.4	2.0	1.8
21	5.1	6.1	632	1860	106	72	27	17	7.6	3.3	2.0	1.9
22	4.7	6.0	286	1690	96	67	26	16	7.6	3.3	2.0	1.9
23	4.5	5.8	414	930	89	63	26	15	7.4	3.1	2.0	1.8
24	4.5	5.7	1280	1060	83	60	25	14	7.4	3.1	2.0	1.9
25	4.4	5.5	679	642	78	58	24	14	7.2	3.1	2.0	1.8
26	4.4	5.5	376	448	73	56	26	13	7.2	3.0	2.0	1.8
27	4.4	5.3	244	716	70	53	27	13	7.0	3.0	2.1	2.0
28	4.4	5.3	176	460	79	50	26	13	7.0	2.8	2.1	2.1
29	4.4	5.1	135	346	---	47	25	12	7.0	2.8	2.1	2.0
30	4.3	5.1	106	272	---	45	25	12	6.8	2.7	2.0	2.0
31	4.2	---	89	224	---	43	---	11	---	2.7	2.0	---
TOTAL	170.9	252.7	5060.3	16969	3015	3244	881	581	253.6	123.5	67.7	58.8
MEAN	5.51	8.42	163	547	108	105	29.4	18.7	8.45	3.98	2.18	1.96
MAX	27	30	1280	1860	239	252	40	25	10	6.8	2.7	2.4
MIN	2.4	4.2	4.9	41	67	43	24	11	6.8	2.7	2.0	1.7
AC-FT	339	501	10040	33660	5980	6430	1750	1150	503	245	134	117

CAL YR 1969 TOTAL 40497.0 MEAN 111 MAX 2190 MIN 2.2 AC-FT 80330
WTR YR 1970 TOTAL 30677.5 MEAN 84.0 MAX 1860 MIN 1.7 AC-FT 60850

NOTE.--NO GAGE-HEIGHT RECORD JUNE 1 TO JULY 1.

11409400 OREGON CREEK BELOW LOG CABIN DAM, NEAR CAMPTONVILLE, CALIF.

LOCATION.--Lat 39°26'18", long 121°03'28", in SW¼SW¼ sec.11, T.18 N., R.8 E., Yuba County, Tahoe National Forest, on right bank 200 ft upstream from High Point Ravine and 1.2 miles southwest of Camptonville.

DRAINAGE AREA.--29.1 sq mi.

PERIOD OF RECORD.--August 1968 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 1,911.56 ft above mean sea level (levels by Yuba County Water Agency).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for August 1968 to September 1970 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1968	-	-	-	-	-
1969	Jan. 20, 1969	3,290	7.23	Oct. 1, 1968	4.4
1970	Jan. 21, 1970	4,180	a7.02	Sept.23, 1970	1.5

a Maximum gage height for year, 7.51 ft Jan. 16, 1970.

Period of record: Maximum discharge, 4,180 cfs Jan. 21, 1970 (gage height, 7.02 ft); maximum gage height, 7.51 ft Jan. 16, 1970; minimum daily discharge, 1.5 cfs Sept. 23, 1970.

REMARKS.--Records good. Camptonville tunnel (maximum capacity, about 831 cfs), 1,100 ft upstream, diverts to New Bullards Bar Reservoir (see station 11413515); diversion began October 1968. See schematic diagram of Yuba River basin elsewhere in this report.

DISCHARGE, IN CUBIC FEET PER SECOND, AUGUST TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												4.7
2												4.7
3												4.7
4												4.6
5												4.6
6												4.6
7												4.6
8												4.4
9												4.4
10												4.6
11												4.6
12												4.6
13												4.6
14												4.7
15												4.9
16												4.7
17												4.4
18												4.2
19												4.2
20												4.4
21												4.6
22											7.0	4.7
23											6.7	4.6
24											6.3	4.4
25											5.9	4.2
26											5.6	4.4
27											5.4	4.4
28											5.4	4.2
29											5.2	4.4
30											4.9	4.2
31											4.8	---
TOTAL												135.3
MEAN												4.51
MAX												4.9
MIN												4.2
AC-FT												268

11409400 OREGON CREEK BELOW LOG CABIN DAM, NEAR CAMPTONVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	7.9	15	17	230	171	441	181	22	20	7.8	6.3
2	4.6	36	15	21	191	144	405	171	22	20	7.8	6.3
3	4.5	251	15	46	173	131	351	162	22	19	7.8	6.3
4	4.6	95	15	66	161	122	299	143	22	18	7.5	6.3
5	4.6	16	15	75	167	120	440	135	22	18	7.5	6.5
6	4.8	15	15	79	160	122	395	147	22	18	7.5	6.4
7	4.8	15	15	82	139	112	329	160	22	18	7.5	6.4
8	4.7	15	15	80	127	107	287	169	22	18	7.5	6.6
9	4.7	14	15	72	203	103	261	173	22	18	7.5	6.6
10	4.7	13	16	64	229	96	245	172	23	18	7.5	6.6
11	6.0	12	19	101	292	93	259	162	23	18	7.5	6.5
12	32	17	17	199	412	90	280	156	22	17	7.5	6.5
13	16	15	17	1090	275	87	285	140	22	17	7.4	6.5
14	13	15	17	833	247	89	263	126	22	16	7.9	6.6
15	11	15	25	399	406	95	230	118	22	12	6.8	6.4
16	8.5	15	23	259	399	108	205	117	23	8.2	6.6	6.5
17	7.5	15	33	197	316	154	200	111	23	8.6	6.6	6.6
18	7.0	15	71	198	284	187	245	106	22	8.6	6.6	6.6
19	6.8	16	61	1500	254	187	239	99	22	8.6	6.6	6.6
20	6.6	16	49	2400	230	188	233	90	22	8.6	6.6	6.6
21	6.3	15	41	2840	200	227	245	82	22	8.6	6.4	6.9
22	6.3	15	38	1560	177	227	266	76	23	8.6	6.5	6.9
23	6.2	15	45	810	174	242	303	72	23	8.6	6.4	6.7
24	6.1	15	218	588	171	248	256	68	23	8.6	6.3	6.6
25	5.9	16	386	1140	160	255	213	62	22	8.6	6.3	6.6
26	5.9	15	178	1640	144	263	184	58	20	8.2	6.3	6.6
27	5.9	15	110	842	132	293	166	56	21	8.2	6.3	6.6
28	5.8	14	98	567	174	334	164	50	21	8.2	6.3	6.6
29	8.2	14	91	403	---	377	176	33	21	7.8	6.3	6.6
30	15	15	77	316	---	419	186	23	21	7.8	6.3	6.6
31	9.0	---	47	253	---	453	---	23	---	7.8	6.3	---
TOTAL	241.4	777.9	1812	18737	6227	5844	8051	3441	661	398.6	215.7	196.4
MEAN	7.79	25.9	58.5	604	222	189	268	111	22.0	12.9	6.96	6.55
MAX	32	251	386	2840	412	453	441	181	23	20	7.9	6.9
MIN	4.4	7.9	15	17	127	87	164	23	20	7.8	6.3	6.3
AC-FT	479	1540	3590	37160	12350	11590	15970	6830	1310	791	428	390
(+)	110	4010	5560	4890	370	0	2000	20400	28100	2480	1170	235

WTR YR 1969 TOTAL 46603.0 MEAN 128 MAX 2840 MIN 4.4 AC-FT 92440

+ CAMPTONVILLE TUNNEL DIVERSION, IN ACRE-FEET, TO BULLARDS BAR RESERVOIR.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	6.0	7.2	9.0	1.6	61	13	12	12	10	10	7.0
2	6.6	6.0	7.2	9.0	1.6	13	13	12	12	10	10	7.1
3	6.6	6.0	7.2	9.0	1.6	13	13	12	12	10	10	6.7
4	6.6	6.0	7.2	9.0	82	13	13	12	12	10	10	6.6
5	6.6	6.9	7.2	8.7	106	13	13	12	12	10	10	6.5
6	6.6	7.7	7.2	8.6	11	13	13	12	12	9.8	9.8	6.5
7	6.3	7.3	7.2	8.6	11	13	13	12	12	10	9.7	6.3
8	6.6	7.2	7.3	8.7	11	14	13	12	12	9.7	9.7	6.3
9	7.1	6.9	7.6	22	11	13	13	12	12	9.7	9.2	5.7
10	6.8	6.9	7.7	64	11	13	13	12	12	9.7	9.0	4.8
11	6.6	6.6	8.4	17	11	13	13	12	11	10	8.7	4.5
12	6.6	6.6	8.7	30	11	13	13	12	11	10	8.6	4.2
13	6.6	6.6	8.9	442	11	13	13	12	11	10	8.4	4.1
14	6.6	6.6	8.5	1520	11	13	13	12	11	10	7.8	3.8
15	7.5	6.6	8.2	964	11	13	13	12	11	9.9	7.7	3.2
16	9.0	7.0	8.2	1980	12	13	13	12	11	9.7	7.3	2.9
17	8.1	7.2	8.2	1120	24	13	13	13	11	9.7	7.1	2.8
18	7.7	6.9	8.2	864	12	13	13	13	11	9.7	7.2	2.7
19	7.5	6.9	9.7	814	12	12	13	13	11	9.7	7.6	2.7
20	7.4	6.9	252	854	12	12	13	13	11	9.7	8.0	2.7
21	7.2	6.9	962	2250	13	12	13	13	10	9.7	7.8	2.7
22	6.8	6.9	581	1660	12	12	13	17	10	9.7	7.1	2.4
23	6.3	6.9	728	644	12	12	13	12	10	9.7	6.5	1.5
24	6.3	6.9	1650	817	12	12	13	12	10	9.7	6.0	3.9
25	6.4	6.9	906	413	12	12	13	12	10	9.7	5.4	4.7
26	6.3	7.2	530	225	12	12	12	12	10	9.6	5.5	4.3
27	6.1	7.2	322	509	12	13	13	12	10	9.6	6.5	4.2
28	6.1	7.2	225	256	12	13	19	13	10	9.7	8.3	4.3
29	6.0	7.2	177	119	---	13	12	13	10	10	8.0	4.5
30	6.0	7.2	147	41	---	13	12	12	10	10	7.6	3.8
31	6.0	---	85	3.8	---	13	---	12	---	11	7.3	---
TOTAL	209.5	205.3	6715.0	15699.4	471.8	444	393	384	330	305.7	251.8	133.4
MEAN	6.76	6.84	217	506	16.9	14.3	13.1	12.4	11.0	9.86	8.12	4.45
MAX	9.0	7.7	1650	2250	106	61	19	17	12	11	10	7.1
MIN	6.0	6.0	7.2	3.8	1.6	12	12	12	10	9.6	5.4	1.5
AC-FT	416	407	13320	31140	936	881	780	762	655	606	499	265
(+)	1430	2050	8020	29340	29050	31430	13760	22670	8850	754	121	0

CAL YR 1969 TOTAL 50901.5 MEAN 139 MAX 2840 MIN 6.0 AC-FT 101000
WTR YR 1970 TOTAL 25542.9 MEAN 70.0 MAX 2250 MIN 1.5 AC-FT 50660

+ CAMPTONVILLE TUNNEL DIVERSION, IN ACRE-FEET, TO BULLARDS BAR RESERVOIR.

11409500 OREGON CREEK NEAR NORTH SAN JUAN, CALIF.

LOCATION.--Lat 39°24'10", long 121°04'35", in NW¼NW¼ sec.27, T.18 N., R.8 E., Yuba County, Tahoe National Forest, on right bank 0.7 mile upstream from mouth and 2.7 miles northeast of North San Juan.

DRAINAGE AREA.--34.4 sq mi.

PERIOD OF RECORD.--September 1911 to September 1969 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 1,580 ft (from topographic map). Prior to October 1933, nonrecording gages at site 0.6 mile downstream at different datums.

AVERAGE DISCHARGE.--58 years, 79.0 cfs (57,240 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (1,000 cfs), water years 1966-69

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Jan. 5, 1966	2315	*438	5.31	Jan. 31, 1967	0715	1,560	7.29	Jan. 13, 1969	1945	1,720	7.51
				Mar. 16, 1967	1615	1,880	7.71	Jan. 20, 1969	2130	*3,490	9.31
Dec. 2, 1966	2145	1,580	7.31					Jan. 25, 1969	1545	3,080	8.96
Jan. 21, 1967	2045	2,380	8.29	Feb. 20, 1968	0030	*1,560	7.29				
Jan. 29, 1967	0730	*2,590	8.50	Feb. 21, 1968	0730	1,490	7.18				

Annual minimum daily discharge, water years 1966-69

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Sept. 7, 1966	3.4	1968	Sept.27, 1968	3.3
1967	Oct. 1, 1966	4.3	1969	Oct. 1, 1968	3.6

Period of record: Maximum discharge, 10,300 cfs Dec. 22, 1964 (gage height, 12.88 ft), from rating curve extended above 3,600 cfs on basis of slope-area measurement of peak flow; minimum, 0.7 cfs for several days in July, August 1931, September 1934.

REMARKS.--Records good. Small diversions above station for irrigation and mining. Water-quality records for the water years 1966-69 are published in reports of the Geological Survey.

REVISIONS (WATER YEARS).--WSP 1395: 1914, 1927-28, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	5.9	24	38	60	89	190	66	19	8.0	5.8	4.2
2	6.8	5.8	23	30	54	82	187	62	19	7.8	5.6	4.3
3	6.9	5.8	22	30	50	74	175	60	18	8.3	5.2	4.2
4	7.1	5.8	23	87	61	69	162	59	18	8.0	5.0	4.2
5	6.9	6.2	23	348	128	67	152	57	17	7.7	4.8	3.9
6	7.1	7.2	22	295	203	72	145	54	18	7.4	4.6	3.7
7	7.1	7.6	21	172	130	111	139	51	19	7.1	4.7	3.4
8	6.8	10	20	125	101	121	132	49	19	7.3	4.5	3.6
9	6.8	11	20	108	87	155	140	48	17	7.8	4.5	3.8
10	6.7	10	19	91	77	314	225	55	16	7.9	4.0	4.0
11	6.5	9.7	21	77	69	256	300	47	17	7.7	4.1	3.9
12	6.4	11	28	69	65	227	290	43	15	7.1	3.8	4.0
13	6.4	16	23	65	60	309	233	40	14	7.3	4.0	4.0
14	7.5	35	20	64	58	284	193	37	14	7.2	4.1	4.3
15	14	21	19	66	56	267	167	35	13	6.9	4.4	4.5
16	10	14	18	70	55	260	154	34	12	6.4	4.3	4.6
17	8.2	44	17	65	55	215	149	32	12	6.3	4.0	4.5
18	7.8	140	16	62	57	189	143	31	12	6.5	3.7	4.7
19	7.6	54	16	58	73	195	128	29	11	6.7	3.8	4.9
20	7.6	28	14	54	78	175	115	28	11	6.2	3.9	4.9
21	7.1	21	14	50	77	158	104	27	11	6.2	3.8	4.9
22	7.1	18	16	50	78	148	96	26	11	5.7	4.0	4.9
23	6.8	36	13	46	109	142	91	25	11	5.5	3.6	4.4
24	6.8	140	26	44	135	144	88	23	11	5.7	3.9	4.6
25	6.8	72	36	42	114	146	87	23	10	5.5	4.1	4.8
26	6.5	44	23	41	101	151	86	22	9.6	5.6	3.9	4.9
27	6.5	35	20	40	93	160	82	21	9.0	5.2	4.1	4.5
28	6.5	32	50	40	88	171	77	21	8.7	4.6	4.3	4.1
29	6.5	29	88	49	---	181	73	20	8.7	4.9	4.1	4.0
30	6.3	26	68	65	---	188	69	20	8.4	5.4	4.2	4.1
31	6.3	---	57	56	---	189	---	19	---	6.0	4.3	---
TOTAL	224.4	901.0	820	2497	2372	5309	4372	1164	409.4	205.9	133.1	128.8
MEAN	7.24	30.0	26.5	80.5	84.7	171	146	37.5	13.6	6.64	4.29	4.29
MAX	14	140	88	348	203	314	300	66	19	8.3	5.8	4.9
MIN	6.3	5.8	13	30	50	67	69	19	8.4	4.6	3.6	3.4
AC-FT	445	1790	1630	4950	4700	10530	8670	2310	812	408	264	255

CAL YR 1965 TOTAL 31855.0 MEAN 87.3 MAX 1450 MIN 5.8 AC-FT 63180
WTR YR 1966 TOTAL 18536.6 MEAN 50.8 MAX 348 MIN 3.4 AC-FT 36770

11409500 OREGON CREEK NEAR NORTH SAN JUAN, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	6.0	223	39	648	60	158	171	139	39	17	13
2	4.4	6.0	546	37	433	59	151	185	116	37	17	13
3	4.5	6.0	502	35	346	58	151	203	103	35	17	13
4	4.6	6.0	292	34	286	57	158	230	104	34	17	12
5	4.8	5.8	627	37	247	55	162	277	122	32	17	12
6	4.9	16	663	33	218	53	236	261	116	31	17	12
7	4.6	17	422	31	197	51	267	293	112	30	17	12
8	4.6	9.0	299	31	179	50	235	338	109	31	16	12
9	4.6	7.8	215	30	163	50	221	362	102	32	17	11
10	4.7	7.5	211	29	151	53	222	407	95	30	17	11
11	4.7	7.5	179	28	142	88	209	338	90	30	17	11
12	4.9	7.8	151	28	137	94	190	286	119	28	17	11
13	5.4	7.8	142	27	136	90	191	249	130	29	16	11
14	5.5	10	135	26	138	82	199	234	104	27	17	11
15	5.8	43	120	26	123	91	195	244	94	26	17	10
16	5.8	73	109	25	114	1170	176	269	88	26	17	10
17	5.7	24	98	24	106	871	191	274	83	26	17	10
18	5.8	17	90	24	100	554	200	264	76	25	17	10
19	5.8	21	83	23	93	417	191	244	72	24	22	10
20	5.6	161	78	98	86	361	174	235	60	23	19	10
21	5.7	131	73	1410	81	333	170	227	62	22	17	9.8
22	6.9	121	67	737	77	304	163	215	59	22	17	10
23	6.9	50	63	332	74	368	182	200	58	21	16	10
24	6.5	35	59	263	73	329	212	188	59	20	16	9.9
25	6.2	28	56	202	77	278	199	172	55	20	16	9.9
26	6.2	24	53	217	69	238	195	156	51	19	15	9.5
27	6.2	21	49	310	65	204	200	145	46	19	15	8.8
28	6.2	71	46	601	62	190	182	138	44	19	14	8.5
29	6.2	312	45	1580	---	175	165	128	43	19	14	8.8
30	6.2	139	43	981	---	169	170	118	41	18	14	8.8
31	6.2	---	41	1160	---	173	---	126	---	18	14	---
TOTAL	170.4	1391.2	5780	8458	4621	7125	5715	7177	2552	812	513	319.0
MEAN	5.50	46.4	186	273	165	230	191	232	85.1	26.2	16.5	10.6
MAX	6.9	312	663	1580	648	1170	267	407	139	39	22	13
MIN	4.3	5.8	41	23	62	50	151	118	41	18	14	8.5
AC-FT	338	2760	11460	16780	9170	14130	11340	14240	5060	1610	1020	633

CAL YR 1966 TOTAL 23932.8 MEAN 65.6 MAX 663 MIN 3.4 AC-FT 47470
WTR YR 1967 TOTAL 44633.6 MEAN 122 MAX 1580 MIN 4.3 AC-FT 88530

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5	10	18	29	51	172	145	39	17	9.0	6.0	4.7
2	42	10	14	26	119	155	134	38	16	8.4	5.5	4.8
3	43	10	31	24	214	141	120	37	17	8.7	5.5	4.8
4	17	10	59	23	148	131	110	36	17	8.2	5.1	4.4
5	16	10	169	22	138	125	104	34	19	8.4	4.8	4.2
6	16	11	44	21	143	116	97	33	18	7.9	4.2	4.3
7	14	10	79	21	151	116	91	32	19	7.6	4.6	4.0
8	14	9.9	47	21	151	133	87	30	17	7.6	4.4	4.6
9	14	10	31	22	181	119	84	30	17	7.6	4.6	4.0
10	13	9.9	26	87	221	105	83	29	15	7.4	4.4	4.1
11	13	10	24	53	174	95	84	28	15	6.8	4.4	4.3
12	12	10	28	38	161	101	83	28	14	6.5	3.9	3.7
13	12	10	17	34	203	126	79	34	14	6.3	4.6	4.2
14	12	17	16	57	168	139	74	33	14	6.5	4.8	4.4
15	11	14	20	521	149	140	71	29	13	6.3	4.7	3.7
16	12	11	19	252	168	227	67	27	13	6.5	5.2	4.3
17	12	11	17	147	566	222	63	26	13	6.0	5.9	4.4
18	12	11	19	106	431	181	60	25	12	6.0	6.6	4.1
19	11	32	19	84	530	159	57	23	12	5.8	13	4.1
20	11	18	18	72	938	148	54	23	11	6.0	17	4.2
21	11	13	17	66	1010	142	53	23	11	6.0	11	4.4
22	12	11	16	65	656	139	50	24	11	5.5	8.7	4.2
23	12	11	18	67	630	137	48	23	11	5.5	7.9	4.6
24	12	11	22	63	483	135	46	22	9.5	4.8	5.8	4.4
25	12	11	29	59	372	149	45	23	9.3	5.1	4.4	4.3
26	12	13	36	57	305	150	44	22	9.7	5.1	4.8	3.8
27	12	13	50	55	256	142	43	21	9.6	5.1	5.2	3.3
28	11	15	45	51	220	137	42	20	9.3	4.8	4.9	3.4
29	11	19	40	55	193	137	41	19	9.0	5.1	5.1	4.0
30	11	22	35	48	---	139	40	19	8.7	5.1	5.0	3.8
31	10	---	31	61	---	138	---	18	---	5.3	4.8	---
TOTAL	442.5	383.8	1054	2307	9130	4396	2199	848	401.1	200.9	186.8	125.5
MEAN	14.3	12.8	34.0	74.4	315	142	73.3	27.4	13.4	6.48	6.03	4.18
MAX	43	32	169	521	1010	227	145	39	19	9.0	17	4.8
MIN	9.5	9.9	14	21	51	95	40	18	8.7	4.8	3.9	3.3
AC-FT	878	761	2090	4580	18110	8720	4360	1680	796	398	371	249

CAL YR 1967 TOTAL 39172.3 MEAN 107 MAX 1580 MIN 8.5 AC-FT 77700
WTR YR 1968 TOTAL 21674.6 MEAN 59.2 MAX 1010 MIN 3.3 AC-FT 42990

11409500 OREGON CREEK NEAR NORTH SAN JUAN, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	9.8	23	23	252	204	390	190	29	19	6.4	6.4
2	3.8	41	20	25	222	178	366	182	28	19	6.7	6.3
3	3.9	216	19	50	203	161	328	174	27	18	6.7	6.1
4	4.5	103	19	72	189	149	289	159	28	18	6.3	6.6
5	4.5	22	19	81	223	146	390	151	28	18	6.6	6.6
6	4.7	20	19	85	208	147	361	161	27	17	6.2	6.4
7	4.7	19	19	88	174	137	309	174	27	17	6.4	5.7
8	4.6	19	18	86	157	131	276	180	27	16	6.8	6.7
9	4.3	18	19	79	241	126	257	184	28	16	7.9	6.4
10	5.2	17	29	72	259	119	246	184	29	16	8.0	5.8
11	6.7	18	29	126	314	115	253	178	29	16	7.3	6.3
12	41	27	24	215	433	111	265	173	28	16	6.5	6.3
13	22	21	23	921	303	109	270	159	27	16	6.1	6.4
14	17	20	30	760	280	110	257	148	27	15	7.3	6.2
15	14	22	43	340	418	118	233	133	27	13	6.3	6.6
16	11	20	35	228	356	131	215	121	27	7.1	6.4	6.8
17	9.7	19	36	186	294	174	210	115	27	7.9	6.7	6.5
18	9.1	22	76	798	270	206	237	112	26	8.0	6.3	6.5
19	8.6	22	68	2240	248	206	234	107	26	7.6	6.3	6.2
20	8.4	21	56	3130	232	207	229	97	25	7.3	5.8	6.1
21	8.2	20	48	2500	209	240	234	89	24	7.6	6.4	5.9
22	8.2	19	44	1070	189	237	248	84	22	7.0	6.1	5.5
23	8.0	18	51	582	192	250	280	82	22	6.8	6.6	5.4
24	7.8	20	199	857	194	254	245	77	20	6.8	6.4	5.6
25	7.6	20	330	2060	194	259	212	73	19	7.0	6.1	5.8
26	7.5	19	184	1180	174	266	190	69	19	7.3	6.2	5.6
27	7.4	19	120	705	159	287	176	66	20	7.2	6.7	5.8
28	7.4	18	112	579	216	315	171	61	20	7.3	6.6	5.5
29	9.6	18	103	398	---	342	181	44	20	6.9	6.5	5.6
30	19	20	87	315	---	372	191	30	19	6.1	6.7	5.4
31	12	---	59	264	---	400	---	29	---	6.1	6.7	---
TOTAL	294.0	887.8	1961	20115	6803	6207	7743	3786	752	364.0	204.0	183.0
MEAN	9.48	29.6	63.3	649	243	200	258	122	25.1	11.7	6.58	6.10
MAX	41	216	330	3130	433	400	390	190	29	19	8.0	6.8
MIN	3.6	9.8	18	23	157	109	171	29	19	6.1	5.8	5.4
AC-FT	583	1760	3890	39900	13490	12310	15360	7510	1490	722	405	363

CAL YR 1968 TOTAL 22937.1 MEAN 62.7 MAX 1010 MIN 3.3 AC-FT 45500

WTR YR 1969 TOTAL 49299.8 MEAN 135 MAX 3130 MIN 3.6 AC-FT 97790

11410400 HAYPRESS CREEK NEAR SIERRA CITY, CALIF.

LOCATION.--Lat 39°33'50", long 120°33'50", in NW¼NW¼ sec.32, T.20 N., R.13 E. (corrected), Sierra County, Tahoe National Forest, on right bank 0.4 mile downstream from Dead Horse Canyon and 4.5 miles east of Sierra City.

DRAINAGE AREA.--18.2 sq mi.

PERIOD OF RECORD.--October 1960 to September 1966 (discontinued).

GAGE.--Water-stage recorder and broad-crested weir. Altitude of gage is 5,840 ft (from topographic map).

AVERAGE DISCHARGE.--6 years, 40.1 cfs (29,030 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water year 1966 are contained in the following table:

Annual maximum discharge (*), peak discharges above base (200 cfs), and annual minimum discharge

	Maximum				Minimum daily	
Wtr yr	Date	Time	Discharge	G.H.	Date	Discharge
1966	May 9, 1966	2400	*287	1.44	Many days	2.4

Period of record: Maximum discharge 3,100 cfs Jan. 31, 1963, Dec. 23, 1964 (gage height, 3.75 ft), from rating curve extended above 350 cfs on basis of computation of peak flow over weir for flood of Jan. 31, 1963; minimum daily, 0.40 cfs Oct. 1, 2, 1960.

REMARKS.--Records good except those for period of no gage-height record Jan. 15 to Mar. 5, 1966, which are fair. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	6.6	9.2	8.3	5.6	6.5	48	110	69	20	6.6	2.4
2	7.4	6.6	9.2	7.4	5.6	6.3	56	120	65	18	6.6	2.4
3	7.4	6.6	9.2	6.6	6.0	6.0	52	128	62	18	6.6	2.4
4	7.4	6.6	9.2	6.6	7.0	5.8	52	144	58	17	5.9	2.4
5	7.4	6.6	9.2	9.2	8.0	6.2	56	161	56	16	5.2	2.4
6	7.4	6.6	9.2	10	8.4	6.6	62	156	54	16	5.2	2.4
7	7.4	6.6	9.2	9.2	7.6	7.4	65	158	54	14	5.2	2.4
8	7.4	10	9.2	9.2	7.0	7.4	65	161	52	13	4.6	2.4
9	8.3	9.2	9.2	8.3	6.6	7.4	62	173	52	13	4.6	2.4
10	8.3	8.3	9.2	8.3	6.2	10	56	209	47	13	4.6	2.4
11	7.4	9.2	8.3	8.3	6.0	9.2	48	192	47	12	4.6	2.4
12	7.4	9.2	8.3	8.3	5.6	11	47	176	43	12	4.6	2.4
13	7.4	12	7.4	7.4	5.5	17	50	170	41	12	4.6	2.4
14	9.2	20	7.3	7.4	5.4	16	52	158	40	11	4.6	2.4
15	12	18	7.0	7.3	5.2	14	60	147	38	11	4.6	2.9
16	9.2	14	7.0	7.3	5.2	12	69	138	38	11	4.6	2.9
17	9.2	29	7.0	7.2	5.6	12	84	133	36	10	4.0	2.9
18	9.2	21	7.0	7.0	6.0	11	73	133	34	10	3.4	2.9
19	9.2	17	7.0	6.8	6.4	12	65	133	33	10	3.4	3.4
20	8.3	13	7.0	6.6	6.1	11	65	136	31	9.2	3.4	3.4
21	8.3	12	7.0	6.4	6.3	11	67	136	31	9.2	3.4	2.9
22	8.3	16	7.2	6.2	6.6	11	69	131	29	8.3	3.4	2.9
23	7.4	19	7.7	6.0	7.0	12	73	123	28	7.4	3.4	2.4
24	7.4	22	8.2	5.8	7.4	17	84	113	26	7.4	2.9	2.4
25	7.4	17	9.0	5.6	7.0	20	99	110	24	7.4	2.9	2.4
26	7.4	14	8.6	5.6	6.7	24	104	108	24	7.4	2.4	2.4
27	7.4	13	8.4	5.6	6.5	28	99	104	21	7.4	2.4	2.4
28	7.4	12	10	5.6	6.2	33	101	97	20	7.4	2.4	2.4
29	7.4	11	10	5.6	---	36	101	90	20	7.4	2.4	2.4
30	7.4	9.2	10	6.2	---	41	106	84	20	6.6	2.4	2.4
31	6.6	---	8.3	5.8	---	47	---	77	---	6.6	2.4	---
TOTAL	247.6	381.3	259.7	221.1	178.7	474.8	2090	4209	1193	348.7	127.3	77.0
MEAN	7.99	12.7	8.38	7.13	6.38	15.3	69.7	136	39.8	11.2	4.11	2.57
MAX	12	29	10	10	8.4	47	106	209	69	20	6.6	3.4
MIN	6.6	6.6	7.0	5.6	5.2	5.8	47	77	20	6.6	2.4	2.4
AC-FT	491	756	515	439	354	942	4150	8350	2370	692	252	153

CAL YR 1965 TOTAL 27289.6 MEAN 74.8 MAX 356 MIN 6.6 AC-FT 54130
WTR YR 1966 TOTAL 9808.2 MEAN 26.9 MAX 209 MIN 2.4 AC-FT 19450

11413000 NORTH YUBA RIVER BELOW GOODYEARS BAR, CALIF.

LOCATION.--Lat 39°31'30" (corrected), long 120°56'13", in SW¼ sec.11, T.19 N., R.9 E., Sierra County, Tahoe National Forest, on right bank 200 ft downstream from St. Catherine Creek, 3.1 miles southwest of Goodyears Bar, and 6.4 miles southwest of Downieville.

DRAINAGE AREA.--250 sq mi.

PERIOD OF RECORD.--October 1930 to September 1970. Prior to October 1949, published as North Fork Yuba River below Goodyears Bar. Monthly and yearly discharges only for some periods, published in WSP 1315-A.

GAGE.--Water-stage recorder. Datum of gage is 2,453 ft above mean sea level (river-profile survey).

AVERAGE DISCHARGE.--40 years, 748 cfs (541,900 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (3,200 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
May 10, 1966	0400	*3,490	8.06	Feb. 23, 1968	1115	4,640	9.05	Jan. 16, 1970	1200	13,500	13.98
								Jan. 22, 1970	0100	*19,200	16.38
Nov. 29, 1966	0315	4,270	8.74	Jan. 13, 1969	1930	3,950	8.47	Jan. 24, 1970	0115	14,700	14.52
Dec. 2, 1966	2245	3,620	8.18	Jan. 21, 1969	0045	*14,300	14.55	Jan. 27, 1970	0630	6,140	10.23
Jan. 21, 1967	1615	5,530	9.73	Jan. 26, 1969	0600	11,400	13.26				
Jan. 29, 1967	1100	*7,180	10.88	Apr. 23, 1969	0745	3,320	7.89				
Mar. 16, 1967	2015	7,710	11.22	May 11, 1969	2200	5,270	9.53				
May 21, 1967	2100	5,760	9.90								
June 19, 1967	2115	5,160	9.45	Dec. 21, 1969	1315	12,400	13.48				
				Dec. 24, 1969	0630	7,900	11.31				
Feb. 21, 1968	0800	*5,540	9.74	Jan. 14, 1970	1215	8,850	11.82				

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Sept.30, 1966	117	1969	Oct. 8-10, 1968	116
1967	Oct. 31 to Nov. 2, Nov. 4, 5, 1966	115	1970	Sept.25, 29, 30, 1970	128
1968	Sept.29, 1968	116			

Period of record: Maximum discharge, 40,000 cfs Feb. 1, 1963 (gage height, 23.8 ft, from floodmarks), from rating curve extended above 8,500 cfs on basis of one float measurement at 17,900 cfs and slope-area measurements at gage heights 19.15 and 23.8 ft; minimum, 69 cfs Aug. 26, 1931.

REMARKS.--Records excellent. Several small diversions above station for irrigation and mining. See schematic diagram of Yuba River basin elsewhere in this report.

REVISIONS (WATER YEARS).--WSP 1041: 1944. WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	173	159	252	266	320	343	1790	1430	637	238	161	126
2	172	159	249	243	310	326	1860	1500	601	237	156	124
3	171	159	253	239	305	307	1740	1620	572	234	153	123
4	170	158	264	317	400	298	1640	1720	547	229	151	121
5	171	157	262	590	520	298	1680	1880	525	223	148	120
6	171	156	257	705	580	305	1750	1780	519	218	146	119
7	168	156	253	598	480	379	1770	1700	528	213	144	119
8	165	211	248	506	420	403	1730	1750	504	210	143	119
9	165	189	244	471	370	466	1720	1740	489	209	141	120
10	166	174	239	425	325	872	2060	2620	471	207	140	122
11	165	172	240	387	301	803	1820	1970	454	205	140	122
12	165	189	259	357	292	694	1610	1670	432	203	140	122
13	165	387	241	340	279	1230	1430	1570	413	200	137	126
14	171	377	227	344	273	1150	1360	1500	400	198	135	130
15	204	274	216	357	269	1040	1420	1390	395	194	134	130
16	182	458	218	365	263	911	1590	1330	382	191	134	127
17	176	1190	210	349	264	750	1860	1270	366	188	133	125
18	173	506	211	335	269	676	1760	1230	349	184	132	128
19	172	362	208	322	318	670	1420	1230	340	180	133	133
20	170	307	206	306	311	620	1270	1240	329	178	131	131
21	167	281	205	296	309	594	1210	1200	315	176	131	126
22	166	451	204	294	320	576	1190	1130	307	173	128	124
23	164	612	198	282	393	570	1240	1040	302	169	126	123
24	164	554	243	275	433	616	1350	970	294	166	125	121
25	163	404	269	268	395	679	1540	940	282	164	124	121
26	161	325	234	265	368	790	1650	910	273	162	124	121
27	160	292	221	261	347	938	1490	860	266	161	125	120
28	162	275	296	256	338	1130	1390	812	258	159	126	118
29	161	268	346	261	---	1310	1370	772	251	158	125	118
30	160	261	320	330	---	1450	1370	728	244	160	126	117
31	160	---	310	340	---	1590	---	682	---	167	127	---
TOTAL	5223	9623	7603	10950	9772	22784	47080	42184	12045	5954	4219	3696
MEAN	168	321	245	353	349	735	1569	1361	402	192	136	123
MAX	204	1190	346	705	580	1590	2060	2620	637	238	161	133
MIN	160	156	198	239	263	298	1190	682	244	158	124	117
AC-FT	10360	19090	15080	21720	19380	45190	93380	83670	23890	11810	8370	7330

CAL YR 1965 TOTAL 337593 MEAN 925 MAX 7000 MIN 156 AC-FT 669600
WTR YR 1966 TOTAL 181133 MEAN 496 MAX 2620 MIN 117 AC-FT 359300

11413000 NORTH YUBA RIVER BELOW GOODYEARS BAR, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	117	115	1190	344	2330	622	1040	732	2410	2410	429	233
2	118	115	2070	333	1750	623	975	776	2020	2260	415	228
3	119	116	2030	326	1450	627	945	824	1880	2090	403	227
4	117	115	1200	320	1280	602	935	1000	2080	1850	391	232
5	117	115	2520	324	1190	580	940	1120	2560	1690	379	256
6	118	176	2110	298	1110	568	995	1180	2550	1550	369	233
7	118	159	1560	298	1070	570	1040	1570	2640	1410	360	226
8	119	145	1170	290	1020	577	990	2090	2780	1290	354	221
9	117	133	920	284	972	593	980	2440	2940	1200	347	216
10	116	130	883	280	962	625	995	2310	2980	1110	338	215
11	116	135	816	278	941	704	950	1800	2940	1040	332	213
12	117	141	736	276	986	670	901	1570	3460	990	323	210
13	117	144	724	273	1060	648	896	1510	3580	942	313	205
14	118	159	720	276	1050	623	930	1650	3220	894	305	202
15	119	458	662	280	939	640	901	2190	3290	852	299	200
16	119	940	630	284	875	5060	856	2880	3520	820	293	199
17	119	374	601	275	825	5290	883	3360	3750	776	287	201
18	119	275	582	273	798	3320	892	3550	3950	729	281	242
19	118	282	563	269	770	2340	870	3710	4020	684	275	219
20	119	1720	553	443	729	1970	820	4240	4000	649	270	202
21	119	869	528	3680	702	1860	800	4750	3800	622	265	196
22	120	649	501	2140	686	1840	780	4970	3460	597	262	196
23	119	410	483	1110	676	2090	784	4880	3160	576	258	197
24	118	323	460	924	669	1820	796	4760	3070	554	255	195
25	117	279	443	780	662	1610	784	4420	3090	529	276	196
26	117	257	424	754	628	1470	768	4140	3050	508	292	188
27	117	242	405	938	613	1330	800	4000	2850	491	266	184
28	117	901	385	1600	614	1280	768	3820	2750	480	255	183
29	116	3050	380	5330	---	1190	736	3530	2700	471	247	183
30	116	1170	370	4040	---	1150	752	3260	2610	456	242	183
31	115	---	356	3450	---	1100	---	3050	---	443	237	---
TOTAL	3648	14097	26975	30770	27357	43992	26502	86082	91110	30963	9618	6281
MEAN	118	470	870	993	977	1419	883	2777	3037	999	310	209
MAX	120	3050	2520	5330	2330	5290	1040	4970	4020	2410	429	256
MIN	115	115	356	269	613	568	736	732	1880	443	237	183
AC-FT	7240	27960	53500	61030	54260	87260	52570	170700	180700	61420	19080	12460

CAL YR 1966 TOTAL 203404 MEAN 557 MAX 3050 MIN 115 AC-FT 403500
WTR YR 1967 TOTAL 397395 MEAN 1089 MAX 5330 MIN 115 AC-FT 788200

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	180	167	199	238	335	1390	1280	1370	775	234	162	134
2	321	166	189	228	444	1260	1080	1370	766	229	156	133
3	462	166	214	214	789	1190	980	1460	744	229	151	133
4	246	166	353	210	633	1150	955	1520	698	222	149	132
5	232	167	686	206	605	1160	965	1420	670	214	146	131
6	229	167	287	202	615	1040	895	1240	666	211	145	130
7	211	167	405	199	647	985	880	1160	722	206	143	129
8	203	166	285	204	633	975	875	1150	605	200	142	129
9	198	165	235	220	722	885	925	1160	573	197	142	128
10	195	166	225	432	798	811	1060	1160	524	195	140	127
11	193	165	217	283	698	766	1220	1140	498	190	139	127
12	190	163	210	245	658	744	1220	1030	480	186	139	125
13	187	164	181	235	690	798	1140	1020	453	185	136	124
14	184	223	160	811	633	798	1120	910	432	185	142	127
15	180	195	217	2440	587	766	1160	865	418	184	147	128
16	180	176	207	1200	605	905	1090	845	403	181	151	124
17	180	171	189	730	1600	925	940	870	390	177	169	121
18	178	186	206	573	1590	816	870	900	375	175	156	121
19	177	299	203	489	1730	744	855	995	360	172	297	121
20	177	237	195	447	4050	706	835	1180	343	170	285	123
21	177	207	187	438	4660	698	811	1090	331	167	186	124
22	184	187	189	453	3490	702	757	985	319	165	172	124
23	181	181	199	447	4180	702	766	875	307	163	165	123
24	177	176	223	429	3140	714	789	798	293	162	158	121
25	177	173	283	415	2360	825	830	875	277	160	153	120
26	175	169	370	405	2020	835	910	870	268	158	150	120
27	173	172	474	390	1820	798	995	880	259	157	146	119
28	173	184	398	368	1660	860	1030	895	252	154	146	118
29	171	210	321	365	1500	1020	1210	885	243	154	143	116
30	169	207	277	360	---	1190	1330	860	238	156	140	118
31	167	---	253	385	---	1280	---	811	---	158	136	---
TOTAL	6227	5508	8237	14261	43892	28438	29773	32589	13682	5696	4932	3750
MEAN	201	184	266	460	1514	917	992	1051	456	184	159	125
MAX	462	299	686	2440	4660	1390	1330	1520	775	234	297	134
MIN	167	163	160	199	335	698	757	798	238	154	136	116
AC-FT	12350	10930	16340	28290	87060	56410	59050	64640	27140	11300	9780	7440

CAL YR 1967 TOTAL 372647 MEAN 1021 MAX 5330 MIN 160 AC-FT 739100
WTR YR 1968 TOTAL 196985 MEAN 538 MAX 4660 MIN 116 AC-FT 390700

11413000 NORTH YUBA RIVER BELOW GOODYEARS BAR, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	152	253	280	1350	738	2380	2460	3390	835	293	202
2	117	270	228	275	1200	700	2160	2390	3290	805	290	201
3	117	850	222	305	1150	675	1820	2280	3320	774	282	200
4	117	459	217	350	1120	644	1630	2020	3280	743	275	198
5	117	285	214	375	1100	634	1970	2220	3140	722	271	197
6	117	230	213	400	1050	634	1770	2860	2980	697	267	195
7	118	206	208	405	951	615	1550	3290	2740	675	263	195
8	116	191	212	390	895	595	1450	3650	2590	658	261	199
9	116	191	212	350	1010	581	1410	4180	2440	643	256	196
10	116	186	486	365	1060	563	1390	4370	2120	617	252	192
11	123	194	643	441	1210	547	1570	4630	2060	589	253	189
12	400	816	394	650	1400	535	1850	4630	2020	564	246	189
13	370	385	334	2510	1170	525	1980	4330	2130	541	243	187
14	277	293	422	2420	1070	519	1850	3960	2300	524	240	185
15	199	297	795	1360	1320	531	1630	3580	2230	505	236	182
16	175	274	632	970	1220	572	1570	3600	2150	483	233	182
17	163	264	435	783	1100	639	1690	3930	1960	462	232	183
18	155	438	359	764	1010	713	2200	4120	1960	442	231	182
19	147	514	334	5120	942	714	2110	3920	1850	426	228	182
20	144	368	296	11900	896	728	2240	3560	1690	410	226	181
21	141	313	260	12200	829	768	2600	3560	1540	395	223	183
22	139	291	255	6250	780	785	3040	3730	1440	385	219	179
23	135	301	400	3360	783	856	3130	4010	1400	376	217	177
24	134	305	800	2530	779	883	2510	4030	1310	369	215	174
25	133	296	1020	3830	756	907	2110	3770	1200	357	213	172
26	131	262	600	7670	711	984	1880	3690	1100	343	213	171
27	130	245	430	3800	672	1150	1790	3700	1030	333	211	169
28	130	233	360	3000	749	1390	1890	3360	963	325	210	168
29	166	224	330	2350	---	1610	2320	3280	907	319	209	166
30	228	256	295	1900	---	1890	2490	3460	867	309	207	165
31	165	---	285	1550	---	2350	---	3570	---	300	204	---
TOTAL	4955	9589	12144	78853	28283	25975	59980	110140	61397	15926	7419	5541
MEAN	160	320	392	2544	1010	838	1999	3553	2047	514	239	185
MAX	400	850	1020	12200	1400	2350	3130	4630	3390	835	293	202
MIN	116	152	208	275	672	519	1390	2020	867	300	204	165
AC-FT	9830	19020	24090	156400	56100	51520	119000	218500	121800	31590	14720	10990

CAL YR 1968 TOTAL 203701 MEAN 557 MAX 4660 MIN 116 AC-FT 404000
WTR YR 1969 TOTAL 420202 MEAN 1151 MAX 12200 MIN 116 AC-FT 833500

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	165	180	173	707	1920	1580	774	688	1160	368	184	138
2	165	179	173	639	1730	1310	787	760	1170	349	182	137
3	164	178	173	587	1600	1140	785	894	1150	335	180	136
4	165	177	171	562	1500	1070	775	1040	1120	323	177	138
5	166	288	168	513	1390	1000	800	1190	1090	312	174	149
6	166	320	171	492	1290	952	855	1250	1040	300	172	148
7	166	282	170	484	1230	945	869	1120	960	290	170	143
8	185	257	183	516	1180	1120	861	1110	896	283	168	140
9	193	233	187	1130	1130	1070	856	1230	961	277	166	137
10	175	226	217	1960	1090	1040	930	1190	984	272	163	134
11	171	227	320	1260	1070	977	1010	1020	814	267	161	132
12	169	236	366	1350	1220	940	918	961	762	261	158	131
13	168	239	515	2910	1280	983	908	939	728	254	157	131
14	181	235	328	6100	1210	1180	861	1020	731	249	155	133
15	293	226	269	3670	1160	1200	787	1200	668	240	154	134
16	685	242	246	10200	1240	1110	770	1470	635	235	153	134
17	539	225	232	8050	1550	1100	728	1720	612	230	153	132
18	302	208	229	4720	1300	1020	708	1810	588	226	153	131
19	242	207	1180	3870	1170	966	751	1660	575	219	152	132
20	224	202	3250	4390	1090	929	685	1500	559	217	150	133
21	222	199	6790	12100	1030	911	658	1420	553	213	149	134
22	222	194	2450	14400	982	910	636	1460	529	209	147	131
23	211	189	1930	8760	945	933	610	1510	498	209	146	130
24	203	188	6210	10000	918	964	598	1520	472	206	145	129
25	198	186	4410	5520	891	991	609	1570	447	203	143	127
26	194	184	2520	4040	883	963	705	1590	447	199	142	128
27	191	182	1690	4920	880	909	654	1540	450	196	143	128
28	190	177	1240	3560	982	887	613	1380	432	193	142	128
29	186	176	1030	2890	---	889	598	1280	428	190	143	127
30	184	175	887	2490	---	863	633	1220	393	186	142	127
31	182	---	781	2160	---	809	---	1180	---	186	141	---
TOTAL	6867	6417	38659	124950	33861	31661	22732	39442	21852	7697	4865	4012
MEAN	222	214	1247	4031	1209	1021	758	1272	728	248	157	134
MAX	685	320	6790	14400	1920	1580	1010	1810	1170	368	184	149
MIN	164	175	168	484	880	809	598	688	393	186	141	127
AC-FT	13620	12730	76680	247800	67160	62800	45090	78230	43340	15270	9650	7960

CAL YR 1969 TOTAL 445457 MEAN 1220 MAX 12200 MIN 164 AC-FT 883600
WTR YR 1970 TOTAL 343015 MEAN 940 MAX 14400 MIN 127 AC-FT 680400

11413100 NORTH YUBA RIVER ABOVE SLATE CREEK, NEAR STRAWBERRY VALLEY, CALIF.

LOCATION.--Lat 39°31'29", long 121°05'26", in NE¼SW¼ sec.9, T.19 N., R.8 E., Yuba County, Tahoe National Forest, on left bank 500 ft upstream from Slate Creek and 2.8 miles southeast of Strawberry Valley.

DRAINAGE AREA.--351 sq mi.

PERIOD OF RECORD.--June 1968 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 1,953.44 ft above mean sea level.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (3,200 cfs), June 1968 to September 1970

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
1968	-	-	-	May 11, 1969	2330	7,480	11.55	Jan. 9, 1970	2345	5,690	10.77
				May 18, 1969	0030	6,350	11.07	Jan. 14, 1970	1215	19,600	15.29
Jan. 13, 1969	2000	7,430	11.53	May 23, 1969	2330	6,160	10.98	Jan. 16, 1970	1000	24,800	16.77
Jan. 21, 1969	-	*33,700	a19.3					Jan. 22, 1970	0100	*35,800	b19.91
Jan. 26, 1969	-	-	-	Dec. 21, 1969	1415	20,900	15.65	Jan. 24, 1970	0200	26,100	17.12
Apr. 23, 1969	0730	5,420	10.64	Dec. 24, 1969	0630	14,700	13.98	Jan. 27, 1970	0630	11,300	12.96

a From floodmarks.
b In gage well; 20.78 ft, from floodmarks.

Annual minimum daily discharge, June 1968 to September 1970

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1968	Sept.29, 1968	138	1970	Sept. 29, 30, 1970	148
1969	Oct. 5-10, 1968	140			

Period of record: Maximum discharge, 35,800 cfs Jan. 22, 1970 (gage height, 19.91 ft, in gage well; 20.7 ft, from floodmarks); minimum daily, 138 cfs Sept. 29, 1968.
Flood of Dec. 22, 1964, reached a stage of 29.8 ft, from floodmarks (discharge, 63,400 cfs, from slope-area measurement).

REMARKS.--Records good. No gage-height record Jan. 20 to Feb. 1, 1969. Several small diversions above station for irrigation and mining. See schematic diagram of Yuba River basin elsewhere in this report.

DISCHARGE, IN CUBIC FEET PER SECOND, JULY TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										283	187	160
2										276	184	158
3										272	181	155
4										266	175	155
5										258	172	152
6										252	172	152
7										248	169	152
8										241	169	152
9										234	166	152
10										230	166	150
11										227	163	148
12										224	163	148
13										217	163	148
14										217	166	148
15										217	172	150
16										214	175	148
17										211	205	145
18										208	190	142
19										205	268	142
20										199	418	145
21										199	238	145
22										196	214	148
23										193	202	148
24										190	190	145
25										187	184	145
26										184	181	145
27									314	181	178	142
28									302	178	175	140
29									294	178	172	138
30									286	181	166	140
31									---	184	163	---
TOTAL										6750	5887	4438
MEAN										218	190	148
MAX										283	418	160
MIN										178	163	138
AC-FT										13390	11680	8800

11413100 NORTH YUBA RIVER ABOVE SLATE CREEK, NEAR STRAWBERRY VALLEY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	142	199	354	485	2150	1280	4040	3800	4160	939	342	219
2	142	371	326	470	1980	1220	3640	3640	3950	911	342	216
3	145	1230	298	470	1840	1160	3030	3460	3960	878	330	213
4	142	729	294	571	1730	1100	2670	3020	3910	848	322	210
5	140	433	298	648	1740	1080	3460	3260	3640	824	318	207
6	140	342	286	688	1670	1080	3080	4250	3450	800	314	207
7	140	298	280	706	1520	1040	2600	4900	3140	770	306	207
8	140	272	286	688	1430	1000	2400	5340	2900	752	302	213
9	140	262	298	632	1650	974	2320	6160	2690	746	298	207
10	140	255	836	582	1790	946	2290	6380	2310	710	290	204
11	148	258	1310	648	2000	918	2590	6550	2240	680	290	201
12	576	1240	694	990	2300	897	3110	6570	2190	650	283	201
13	520	582	555	4280	2010	878	3350	6090	2250	626	280	198
14	370	424	670	4350	1840	866	3080	5500	2460	608	273	195
15	280	424	1370	2200	2430	884	2660	4860	2460	590	269	193
16	230	402	1180	1580	2240	953	2530	4820	2310	560	255	193
17	208	384	748	1270	1960	1090	2710	5220	2120	536	252	195
18	199	575	598	1190	1770	1240	3730	5500	2060	512	255	196
19	193	759	540	9060	1640	1230	3510	5180	1990	494	255	195
20	184	535	470	16000	1550	1260	3660	4620	1810	476	249	195
21	181	451	410	19000	1440	1330	4200	4540	1660	455	246	195
22	178	402	410	8500	1350	1360	4880	4800	1540	445	243	190
23	175	402	451	5000	1350	1470	5100	5100	1510	430	240	190
24	172	410	1040	4500	1330	1520	4090	5120	1430	425	237	188
25	169	402	1700	6500	1290	1560	3340	4720	1320	415	234	188
26	166	362	1050	12000	1220	1670	2940	4620	1240	395	234	185
27	166	342	766	6500	1160	1930	2770	4540	1160	385	231	185
28	166	318	659	4500	1300	2290	2900	4160	1100	370	228	183
29	195	298	598	3500	---	2670	3580	4020	1040	366	228	183
30	340	350	545	2800	---	3160	3860	4230	981	354	225	180
31	227	---	515	2300	---	3950	---	4360	---	342	222	---
TOTAL	6454	13711	19835	122608	47680	44006	98120	149330	68981	18292	8393	5932
MEAN	208	457	640	3955	1703	1420	3271	4817	2299	590	271	198
MAX	576	1240	1700	19000	2430	3950	5100	6570	4160	939	342	219
MIN	140	199	280	470	1160	866	2290	3020	981	342	222	180
AC-FT	12800	27200	39340	243200	94570	87290	194600	296200	136800	36280	16650	11770

WTR YR 1969 TOTAL 603342 MEAN 1653 MAX 19000 MIN 140 AC-FT 1197000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	182	207	206	1060	2770	3320	1090	1020	1350	417	215	158
2	183	205	206	950	2410	2420	1090	1100	1360	393	217	158
3	180	205	205	867	2220	1960	1080	1240	1330	366	215	157
4	181	204	204	827	2050	1800	1060	1450	1300	347	210	156
5	183	365	199	724	1930	1660	1080	1610	1240	339	205	170
6	183	499	200	712	1800	1590	1140	1730	1200	323	204	175
7	183	400	201	707	1710	1560	1170	1540	1100	311	201	170
8	200	400	217	749	1650	1930	1150	1520	1020	303	196	165
9	228	321	231	1890	1580	1790	1140	1650	1080	299	195	160
10	198	293	276	3770	1530	1720	1220	1630	1150	293	192	156
11	190	284	535	2200	1490	1590	1350	1410	954	289	189	153
12	188	290	749	2420	1730	1510	1220	1330	871	282	185	152
13	188	297	1110	6330	1870	1550	1220	1290	829	278	185	150
14	201	289	720	13400	1810	1820	1160	1360	859	272	183	153
15	312	276	526	7390	1720	1900	1080	1560	779	262	180	158
16	855	291	422	18500	1850	1750	1070	1830	738	256	180	158
17	785	285	373	15600	2540	1720	1020	2120	710	254	178	156
18	430	255	345	9140	1960	1580	1000	2240	680	250	176	154
19	312	248	974	6940	1760	1480	1060	2070	661	244	175	154
20	275	242	1870	8170	1630	1420	990	1870	644	241	173	156
21	269	237	8460	20800	1530	1360	951	1740	630	241	171	158
22	262	232	4050	24000	1470	1350	916	1780	605	235	170	155
23	250	226	3080	13500	1420	1370	889	1810	565	236	168	153
24	241	219	11400	17200	1380	1370	870	1810	534	231	167	155
25	234	223	8050	9560	1340	1420	878	1830	501	232	163	150
26	231	221	4340	6600	1330	1380	997	1850	494	228	163	149
27	223	217	2670	8860	1330	1300	959	1800	510	225	163	149
28	220	214	1930	5880	1530	1260	903	1620	481	222	160	149
29	217	209	1580	4580	---	1250	889	1500	488	222	161	148
30	211	208	1350	3820	---	1200	937	1430	442	217	160	148
31	208	---	1170	3200	---	1140	---	1390	---	217	158	---
TOTAL	8203	8062	57849	220346	49340	50470	31579	50130	25105	8525	5658	4683
MEAN	265	269	1866	7108	1762	1628	1053	1617	837	275	183	156
MAX	855	499	11400	24000	2770	3320	1350	2240	1360	417	217	175
MIN	180	204	199	707	1330	1140	870	1020	442	217	158	148
AC-FT	16270	15990	114700	437100	97870	100100	62640	99430	49800	16910	11220	9290

CAL YR 1969 TOTAL 637456 MEAN 1746 MAX 19000 MIN 180 AC-FT 1264000
WTR YR 1970 TOTAL 519950 MEAN 1425 MAX 24000 MIN 148 AC-FT 1031000

11413250 SLATE CREEK TUNNEL NEAR STRAWBERRY VALLEY, CALIF.

LOCATION.--Lat 39°36'57", long 121°03'03", in SE¼SW¼ sec.2, T.20 N., R.8 E., Plumas County, Plumas National Forest, on right bank 30 ft upstream from diversion dam on Slate Creek, 0.3 mile upstream from Fency Ravine, and 4.5 miles northeast of town of Strawberry Valley.
PERIOD OF RECORD.--October 1966 to September 1970. Records of daily discharge for December 1961 to September 1966 are in files of the Geological Survey. Monthly diversion used to adjust Slate Creek below diversion dam near Strawberry Valley since February 1962.
GAGE.--Water-stage recorder. Datum of gage is at mean sea level.
EXTREMES.--Period of record: Maximum daily discharge, 863 cfs Apr. 6, 1963; no flow for many days in each year.
REMARKS.--Records good except those for period of no gage-height record Aug. 18 to Sept. 30, 1970, which are poor. Tunnel diverts water from Slate Creek to Sly Creek Reservoir (see station 11395400) for power development. See schematic diagrams of South Fork Feather River basin and Yuba River basin elsewhere in this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	559	73	611	165	0	137	0	220	18	
2		0	710	68	571	164	0	175	0	180	17	
3		0	767	66	542	163	0	222	0	160	17	
4		0	538	65	497	150	0	250	0	138	17	
5		0	815	65	447	141	0	284	0	124	16	
6		0	749	54	411	139	0	347	0	113	15	
7		0	600	57	390	125	0	521	0	99	15	
8		0	412	53	368	168	0	713	0	92	5.8	
9		0	322	52	344	179	0	750	0	85	0	
10		17	338	51	345	206	95	744	0	77	0	
11		8.2	308	52	342	211	214	692	0	70	0	
12		16	271	52	377	183	207	552	280	65	0	
13		13	271	53	420	175	218	582	419	61	0	
14		13	271	59	407	164	218	633	244	57	0	
15		177	239	62	353	167	200	739	0	52	0	
16		387	218	65	317	815	186	757	0	50	0	
17		83	199	62	110	836	188	764	0	47	0	
18		53	185	59	0	413	182	744	0	42	0	
19		127	172	57	0	0	168	822	0	40	0	
20		728	166	59	0	0	159	826	0	36	0	
21		345	157	644	140	0	150	828	0	34	0	
22		193	144	771	205	0	142	830	0	32	0	
23		115	135	477	141	0	141	657	163	31	0	
24		83	127	353	178	0	137	0	318	28	0	
25		66	119	268	177	0	133	0	149	27	0	
26		59	110	239	163	0	131	0	154	25	0	
27		54	101	303	159	0	137	0	244	24	0	
28		334	94	656	163	0	129	0	193	23	0	
29		834	89	740	---	0	121	0	241	22	0	
30		539	83	680	---	0	123	0	272	21	0	
31		---	78	646	---	0	---	0	---	20	0	---
TOTAL	0	4244.2	9347	6961	8178	4564	3379	13569	2677	2095	120.8	0
MEAN	0	141	302	225	292	147	113	438	89.2	67.6	3.90	0
MAX	0	834	815	771	611	836	218	830	419	220	18	0
MIN	0	0	78	51	0	0	0	0	0	20	0	0
AC-FT	0	8420	18540	13810	16220	9050	6700	26910	5310	4160	240	0

CAL YR 1966 TOTAL 54763.50 MEAN 150 MAX 839 MIN 0 AC-FT 108600
WTR YR 1967 TOTAL 55135.00 MEAN 151 MAX 836 MIN 0 AC-FT 109400

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	2.7	11	36	66	427	538	306	81	14	5.0	1.6
2	0	2.6	10	30	70	355	428	297	78	14	4.0	1.4
3	19	2.6	10	22	163	325	376	306	75	13	3.5	1.3
4	13	2.6	48	23	132	313	358	301	70	12	3.1	1.1
5	14	2.6	165	20	116	364	357	270	66	12	2.4	.92
6	11	2.6	49	19	108	371	336	235	70	11	2.3	.69
7	8.4	2.6	39	21	108	332	320	212	80	10	2.3	.34
8	7.4	2.6	26	23	111	311	316	203	64	9.4	2.4	.25
9	6.9	2.6	24	24	132	279	346	196	59	8.7	2.4	.21
10	6.6	2.6	21	26	154	256	406	190	54	8.4	2.3	.21
11	6.2	2.6	21	25	139	233	457	181	52	7.6	2.3	.21
12	6.0	2.6	16	24	134	221	444	169	50	7.1	2.3	.21
13	5.3	2.6	9.7	24	144	218	399	170	45	7.1	2.3	.21
14	4.4	19	12	88	131	205	377	151	42	6.9	2.6	.21
15	4.4	7.9	18	832	118	189	370	143	38	6.6	3.7	.21
16	4.6	5.5	17	462	138	222	346	135	37	6.4	3.1	.25
17	4.4	4.4	15	195	623	202	297	134	35	6.2	4.2	.25
18	4.4	7.4	14	131	604	180	270	132	32	5.7	3.3	.25
19	4.2	75	15	104	507	172	258	139	31	5.3	25	.25
20	4.0	30	14	91	609	172	245	158	28	5.0	22	.29
21	5.0	15	13	89	499	179	230	144	27	4.8	15	.29
22	5.3	10	13	100	387	185	214	148	25	4.4	7.1	.29
23	4.6	7.9	15	110	402	196	213	127	23	4.2	5.3	.29
24	4.0	6.9	19	109	354	212	217	114	21	4.0	4.2	.29
25	3.8	6.2	27	104	335	276	226	133	20	4.0	3.7	.21
26	3.7	5.0	62	98	329	294	245	120	19	4.0	3.3	0
27	3.7	5.5	117	86	505	285	266	111	17	4.0	3.1	0
28	3.8	7.4	99	74	645	320	270	108	17	3.5	3.1	0
29	3.7	6.9	67	47	523	417	297	103	16	3.7	2.6	0
30	3.5	5.5	52	34	---	529	308	97	15	4.2	2.3	0
31	3.1	---	42	81	---	577	---	89	---	4.4	2.1	---
TOTAL	178.4	259.4	1080.7	3152	8286	8817	9730	5322	1287	221.6	152.3	11.73
MEAN	5.75	8.65	34.9	102	286	284	324	172	42.9	7.15	4.91	.39
MAX	19	75	165	832	645	577	538	306	81	14	25	1.6
MIN	0	2.6	9.7	19	66	172	213	89	15	3.5	2.1	0
AC-FT	354	515	2140	6250	16440	17490	19300	10560	2550	440	302	23

CAL YR 1967 TOTAL 43062.30 MEAN 118 MAX 836 MIN 0 AC-FT 85410
WTR YR 1968 TOTAL 38498.13 MEAN 105 MAX 832 MIN 0 AC-FT 76360

11413250 SLATE CREEK TUNNEL NEAR STRAWBERRY VALLEY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	7.9	34	53				376	0	61	12	3.1
2	0	61	26	53				693	439	59	12	2.7
3	0	237	26	54				680	723	54	11	3.1
4	0	114	26	61				650	676	53	10	2.7
5	0	54	28	68				690	498	48	9.7	2.6
6	0	37	28	77				705	366	45	9.7	2.6
7	0	27	29	86				705	286	44	9.4	2.4
8	0	21	33	85				698	250	43	9.4	2.6
9	0	19	94	79				688	235	16	8.7	2.4
10	0	16	434	73				681	221	0	8.4	2.4
11	0	19	175	73				676	227	0	8.4	2.1
12	106	296	111	77				672	219	0	7.9	2.3
13	60	79	99	610				650	217	0	7.4	2.1
14	29	56	185	830				238	243	0	7.4	2.1
15	21	50	286	537				0	273	46	7.1	1.9
16	13	47	151	324				0	213	28	6.9	1.9
17	8.7	50	109	240				0	187	27	7.1	.71
18	6.9	141	92	265				0	186	25	7.1	0
19	5.3	116	74	747				0	172	23	6.6	0
20	4.8	75	60	337				0	156	23	8.7	0
21	4.4	59	62	225				0	139	21	8.1	0
22	4.2	49	64	140				0	128	19	6.2	.17
23	3.5	44	63	125				0	118	20	5.3	.57
24	2.9	46	118	78				0	109	19	5.3	0
25	2.7	43	98	0				0	99	18	4.8	3.7
26	2.7	36	82	0				0	90	16	4.8	.83
27	2.7	33	70	0				0	85	16	4.4	.59
28	2.6	32	64	0				0	78	15	3.7	.47
29	12	30	60	0	---			0	71	14	3.8	.47
30	32	35	57	0	---			0	68	14	3.7	.36
31	10	---	54	0	---		---	0	---	13	3.5	---
TOTAL	334.4	1929.9	2892	5297	0	0	0	8802	6772	780	228.5	46.87
MEAN	10.8	64.3	93.3	171	0	0	0	284	226	25.2	7.37	1.56
MAX	106	296	434	830	0	0	0	705	723	61	12	3.7
MIN	0	7.9	26	0	0	0	0	0	0	0	3.5	0
AC-FT	663	3830	5740	10510	0	0	0	17460	13430	1550	453	93

CAL YR 1968 TOTAL 42135.93 MEAN 115 MAX 832 MIN 0 AC-FT 83580
WTR YR 1969 TOTAL 27082.67 MEAN 74.2 MAX 830 MIN 0 AC-FT 53720

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.59	3.1	3.8	181	0	0	145	118	80	18	0	3.0
2	.83	3.1	4.4	158	0	7.3	151	125	78	16	0	3.0
3	.59	3.1	4.6	138	0	0	145	145	76	15	0	2.0
4	.36	3.1	3.6	124	163	0	139	158	70	15	0	2.0
5	.59	53	4.1	109	268	0	140	165	65	15	0	2.0
6	.83	41	5.5	94	242	0	144	167	59	13	0	1.0
7	.59	43	3.8	98	233	0	144	149	54	12	0	0
8	3.5	43	7.4	124	225	0	138	145	52	11	0	2.0
9	4.8	19	7.6	448	216	15	138	173	60	11	0	2.0
10	2.1	15	7.4	832	198	29	148	173	72	11	0	0
11	1.3	13	51	734	201	0	159	154	54	10	0	0
12	.94	11	238	768	290	0	140	145	46	10	0	0
13	1.1	8.8	246	834	302	7.8	140	146	46	9.4	0	0
14	3.8	8.8	97	719	264	282	131	150	62	9.2	0	0
15	40	8.5	62	670	258	369	119	164	47	8.1	0	0
16	85	8.5	56	442	275	158	118	182	42	7.9	0	0
17	69	7.0	41	187	153	0	110	192	39	7.4	0	0
18	20	6.5	41	153	0	0	108	186	35	7.1	0	0
19	13	6.0	545	79	0	0	121	165	34	6.9	0	0
20	9.2	5.5	648	0	0	0	108	148	33	6.9	2.0	0
21	7.4	5.0	197	0	0	0	99	134	30	6.0	3.0	0
22	6.2	4.8	322	0	0	0	92	132	29	6.0	4.0	0
23	5.5	4.8	666	0	0	1.0	87	134	26	5.5	4.0	0
24	5.3	4.8	836	0	0	2.0	82	130	25	5.3	4.0	0
25	4.8	4.8	786	0	135	0	84	130	21	5.0	4.0	0
26	4.6	4.8	723	0	86	0	104	128	21	4.6	3.0	0
27	4.0	4.5	674	0	0	60	94	120	22	4.2	3.0	0
28	3.8	4.0	420	0	0	193	87	107	22	2.0	3.0	0
29	3.7	3.8	313	0	---	186	93	96	24	0	3.0	0
30	3.5	3.8	252	0	---	175	108	89	19	0	3.0	0
31	3.3	---	209	0	---	160	---	84	---	0	3.0	---
TOTAL	310.22	355.1	7475.2	6892	3509	1645.1	3616	4434	1343	258.5	39.0	17.0
MEAN	10.0	11.8	241	222	125	53.1	121	143	44.8	8.34	1.26	.57
MAX	85	53	836	834	302	369	159	192	80	18	4.0	3.0
MIN	.36	3.1	3.6	0	0	0	82	84	19	0	0	0
AC-FT	615	704	14830	13670	6960	3260	7170	8790	2660	513	77	34

CAL YR 1969 TOTAL 30066.89 MEAN 82.4 MAX 836 MIN 0 AC-FT 59640
WTR YR 1970 TOTAL 29894.12 MEAN 81.9 MAX 836 MIN 0 AC-FT 59290

11413300 SLATE CREEK BELOW DIVERSION DAM, NEAR STRAWBERRY VALLEY, CALIF.

LOCATION.--Lat 39°36'52", long 121°03'04", in SE¼SW¼ sec.2 T.20 N., R.8 E., Plumas County, Plumas National Forest, on right bank 300 ft downstream from diversion dam, 0.2 mile upstream from Feney Ravine, and 4.5 miles northeast of town of Strawberry Valley.

DRAINAGE AREA.--49.4 sq mi.

PERIOD OF RECORD.--October 1960 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 3,570 ft (from topographic map).

AVERAGE DISCHARGE.--10 years, 211 cfs (152,900 acre-ft per year), adjusted for diversion to Slate Creek tunnel.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum					Minimum daily			
	Creek only			Combined		Creek only		Combined	
Wtr yr	Date	Disch.	G.H.	Date	Disch.	Date	Disch.	Date	Disch.
1966	Nov. 17, 1965	906	5.64	Apr. 10, 1966	1,610	Sept.30, 1966	6.5	Sept.30, 1966	6.5
1967	Jan. 29, 1967	3,300	9.53	Jan. 29, 1967	4,060	Nov. 5, 1966	6.0	Nov. 5, 1966	6.0
1968	Feb. 21, 1968	2,280	8.23	Feb. 21, 1968	2,940	Many days	5.8	Sept.30, 1968	7.0
1969	Jan. 20, 1969	7,730	13.18	Jan. 20, 1969	8,640	Oct. 6-8, 1968	6.6	Oct. 6-8, 1968	6.6
1970	Jan. 21, 1970	7,460	13.00	Jan. 21, 1970	7,460	Sept.12, 1970	3.4	Sept.12, 1970	3.4

1960-70 (creek only): Maximum discharge, 13,100 cfs Dec. 22, 1964 (gage height, 16.42 ft), from rating curve extended above 5,500 cfs on basis of computed flow over dam at gage heights 12.75 and 15.90 ft; minimum, 0.30 cfs Mar. 4, 5, 1962.

1962-70 (combined flow): Maximum discharge, 13,900 cfs Dec. 22, 1964; minimum daily, 2.3 cfs Nov. 23, 1961.

REMARKS.--Records good. At diversion dam 300 ft upstream, Slate Creek tunnel (see station 11413250) diverts up to 900 cfs from Slate Creek Reservoir (capacity, 223 acre-ft) to Sly Creek Reservoir (see station 11395400); diversion began in February 1962. See schematic diagrams of South Fork Feather River basin and Yuba River basin elsewhere in this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	9.9	20	14	8.9	9.9	45	10	10	18	12	9.2
2	11	9.9	16	14	8.9	9.9	39	10	10	20	11	8.9
3	11	9.9	14	14	8.9	9.9	15	10	10	20	11	8.5
4	11	9.9	14	15	9.2	9.9	9.6	10	10	20	11	8.5
5	12	9.9	14	15	9.2	9.9	9.6	10	10	18	11	8.2
6	12	9.9	14	14	9.2	10	9.9	10	10	18	10	8.2
7	11	9.9	14	14	9.2	10	9.9	10	10	17	10	7.9
8	10	19	14	14	9.2	10	9.6	10	11	17	9.9	7.9
9	10	15	14	14	9.2	10	69	10	11	18	9.9	7.9
10	11	12	14	14	9.2	9.9	517	10	11	17	9.9	7.9
11	11	12	14	14	9.2	9.9	375	11	11	17	9.6	7.9
12	10	14	14	14	9.2	9.9	209	11	11	16	9.6	7.5
13	10	18	14	14	9.2	10	89	11	11	16	9.6	7.5
14	12	138	14	14	9.2	10	67	11	11	16	9.6	7.5
15	16	71	14	14	9.2	10	116	11	11	15	9.9	7.9
16	13	41	14	14	9.6	9.9	172	11	11	15	9.9	7.9
17	12	249	14	14	9.9	9.9	254	11	10	14	9.9	7.9
18	12	279	14	14	9.9	9.9	188	11	10	14	9.9	7.9
19	12	21	14	14	9.9	9.9	107	11	10	14	9.9	8.2
20	11	21	14	14	9.9	9.9	89	11	10	14	9.9	8.5
21	11	21	14	14	9.9	9.9	141	11	10	14	9.9	8.5
22	11	21	14	14	9.9	9.6	212	11	10	13	9.9	8.5
23	11	21	14	14	10	9.6	222	11	11	13	9.9	8.2
24	10	21	14	14	10	9.2	256	11	11	13	9.9	7.9
25	10	20	14	12	10	9.2	293	11	11	13	9.9	7.5
26	10	20	14	8.5	9.9	9.2	208	11	11	12	9.9	7.5
27	9.7	20	14	8.5	9.9	9.2	33	11	11	12	9.9	7.2
28	9.7	20	14	8.9	9.9	9.2	9.6	11	11	11	9.9	7.2
29	9.7	20	14	8.9	---	9.2	9.9	10	12	11	9.9	6.8
30	9.7	20	14	8.9	---	9.2	10	10	11	12	9.6	6.5
31	9.7	---	14	8.9	---	12	---	10	---	13	9.6	---
TOTAL	340.5	1183.3	442	402.6	265.8	304.2	3794.1	328	318	471	311.8	237.6
MEAN	11.0	39.4	14.3	13.0	9.49	9.81	126	10.6	10.6	15.2	10.1	7.92
MAX	16	279	20	15	10	12	517	11	12	20	12	9.2
MIN	9.7	9.9	14	8.5	8.9	9.2	9.6	10	10	11	9.6	6.5
AC-FT	675	2350	877	799	527	603	7530	651	631	934	618	471
MEAN†	11.0	68.9	36.3	64.1	75.4	333	709	311	41.5	15.2	10.1	7.92
AC-FT†	675	4100	2230	3940	4190	20490	42170	19150	2470	934	618	471

CAL YR 1965 TOTAL 51004.0 MEAN 140 MAX 1530 MIN 7.7 AC-FT 101200 MEAN† 197 AC-FT† 142500
WTR YR 1966 TOTAL 8398.9 MEAN 23.0 MAX 517 MIN 6.5 AC-FT 16660 MEAN† 140 AC-FT† 16660

† ADJUSTED FOR DIVERSION TO SLATE CREEK TUNNEL.

11413300 SLATE CREEK BELOW DIVERSION DAM, NEAR STRAWBERRY VALLEY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	6.2	8.9	9.2	378	8.9	274	11	579	10	10	15
2	7.2	6.2	234	9.6	171	8.9	250	11	508	10	10	15
3	6.8	6.2	129	9.6	51	8.9	238	11	483	9.9	10	15
4	6.8	6.2	8.9	9.6	12	8.9	228	11	508	9.9	10	15
5	6.5	6.0	259	9.6	12	8.9	220	11	551	9.9	10	16
6	6.5	6.2	7.9	9.6	12	8.9	216	12	544	9.9	10	15
7	6.5	7.5	7.9	9.6	12	12	205	14	554	9.9	10	15
8	6.5	7.9	7.5	9.6	11	8.9	205	70	562	9.9	28	14
9	6.5	7.9	7.5	9.6	11	9.2	220	142	576	9.9	38	14
10	6.5	7.5	7.5	9.6	11	9.2	136	191	576	9.9	24	14
11	6.5	7.2	7.5	9.6	11	9.6	11	16	565	9.9	22	14
12	6.2	7.2	7.5	9.6	11	9.6	11	13	306	9.6	22	14
13	6.5	7.2	7.5	9.6	12	9.6	11	13	121	9.6	21	14
14	6.5	7.2	7.5	9.6	12	9.6	11	43	304	9.6	20	13
15	6.8	7.5	7.5	9.6	11	9.6	11	176	544	9.6	20	13
16	6.8	7.9	7.2	9.6	11	1520	11	375	562	9.6	18	13
17	6.8	7.5	7.2	9.6	147	1070	11	530	572	9.6	12	14
18	6.8	7.2	7.2	9.6	250	705	11	576	582	9.9	8.9	16
19	6.8	7.5	7.5	9.6	238	754	11	593	568	9.9	9.6	14
20	6.8	147	7.5	9.9	218	649	11	719	520	9.9	9.9	13
21	6.8	8.9	7.5	606	92	660	11	830	468	9.9	11	13
22	6.8	8.9	7.9	165	9.6	638	11	850	417	9.9	11	13
23	6.8	8.5	9.2	11	31	854	11	970	209	9.9	13	13
24	6.8	8.5	9.2	11	9.2	684	11	1260	32	9.9	16	13
25	6.5	8.5	9.2	11	9.2	558	11	1110	180	9.9	16	13
26	6.5	8.2	9.2	11	9.2	471	11	990	160	10	17	12
27	6.5	8.2	9.2	11	9.2	408	11	930	63	10	16	12
28	6.5	142	9.2	98	9.2	384	11	858	107	10	16	12
29	6.5	495	9.2	1950	---	345	11	806	50	10	15	12
30	6.2	8.5	9.2	1140	---	324	11	733	10	10	16	12
31	6.2	---	9.2	796	---	307	---	702	---	10	16	---
TOTAL	205.2	986.4	850.4	5001.9	1780.6	10471.7	2412	13577	11781	305.9	486.4	411
MEAN	6.62	32.9	27.4	161	63.6	338	80.4	438	393	9.87	15.7	13.7
MAX	7.2	495	259	1950	378	1520	274	1260	582	10	38	16
MIN	6.2	6.0	7.2	9.2	9.2	8.9	11	11	10	9.6	8.9	12
AC-FT	407	1960	1690	9920	3530	20770	4780	26930	23370	607	965	815
MEAN†	6.62	174	329	386	356	485	193	876	482	78.6	19.5	13.7
AC-FT†	407	10380	20230	23730	19750	29820	11480	53840	28680	4830	1200	815

CAL YR 1966 TOTAL 8475.1 MEAN 23.2 MAX 517 MIN 6.0 AC-FT 16810 MEAN† 173 AC-FT† 125400
WTR YR 1967 TOTAL 48269.5 MEAN 132 MAX 1950 MIN 6.0 AC-FT 95740 MEAN† 283 AC-FT† 205100

† ADJUSTED FOR DIVERSION TO SLATE CREEK TUNNEL.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	9.7	9.7	9.7	12	6.6	6.2	5.8	5.8	9.3	8.4	8.1
2	126	9.7	9.7	9.7	10	6.6	5.8	6.2	5.8	9.3	8.4	8.1
3	60	9.7	9.7	9.7	10	6.6	5.8	6.2	5.8	9.3	8.4	8.1
4	9.7	9.7	10	9.7	10	6.6	5.8	6.2	5.8	9.3	8.4	8.1
5	9.7	9.7	10	9.7	10	17	5.8	6.2	5.8	9.3	8.4	8.1
6	9.7	9.7	9.7	9.7	10	6.6	5.8	6.2	5.8	9.3	8.4	8.1
7	9.7	9.7	9.7	9.7	9.7	6.6	6.2	6.2	5.8	9.3	8.4	7.7
8	9.7	9.7	9.7	9.7	9.7	6.6	6.2	6.2	5.8	9.3	8.4	7.7
9	9.7	9.7	9.7	9.7	10	6.2	6.2	6.2	5.8	9.3	8.4	7.7
10	9.7	9.7	9.7	9.7	10	6.2	6.2	6.2	5.8	9.3	8.4	7.7
11	9.7	9.7	9.7	9.7	10	6.2	6.2	6.2	6.2	9.3	8.4	7.7
12	9.7	9.7	9.7	9.7	10	6.2	6.2	6.2	6.2	9.3	8.4	7.7
13	9.7	9.7	9.7	9.7	10	5.8	6.2	6.2	7.3	9.3	8.4	7.3
14	9.7	9.7	9.7	10	10	5.8	6.2	6.2	9.3	9.3	8.4	7.7
15	9.7	9.7	9.7	422	10	6.2	6.2	6.2	9.3	9.3	8.4	7.7
16	9.7	9.7	9.7	9.7	11	6.2	6.6	6.2	9.3	9.3	8.4	7.7
17	9.7	9.7	9.7	9.7	206	6.2	6.6	6.2	9.3	9.3	8.1	7.7
18	9.7	9.7	9.7	9.7	36	6.2	6.2	5.8	9.3	9.3	8.1	7.3
19	9.7	9.7	9.7	9.7	199	6.2	6.2	5.8	9.3	8.8	8.1	7.3
20	9.7	9.7	9.7	9.3	848	6.2	6.6	6.2	9.3	8.4	8.1	7.3
21	9.7	9.7	9.7	9.3	1590	6.2	6.6	6.2	9.3	8.4	8.1	7.3
22	9.7	9.7	9.7	9.3	926	6.2	6.6	6.2	9.3	8.4	8.1	7.0
23	9.7	9.7	9.7	9.3	1140	6.2	6.2	6.2	9.3	8.4	8.1	7.0
24	9.7	9.7	9.7	9.3	712	6.2	6.2	6.2	9.3	8.4	8.1	7.0
25	9.7	9.7	9.7	9.3	447	6.2	5.8	6.2	9.3	8.4	8.1	7.0
26	9.7	9.7	9.7	9.3	335	6.2	5.8	6.2	9.3	8.4	8.1	7.0
27	9.7	9.7	9.7	9.3	165	6.2	5.8	6.2	9.3	8.4	8.1	7.0
28	9.7	9.7	9.7	9.3	7.0	6.2	5.8	6.2	9.3	8.4	8.1	7.0
29	9.7	9.7	9.7	25	7.0	6.2	5.8	6.2	9.3	8.4	8.1	7.0
30	9.7	9.7	9.7	62	---	6.2	5.8	6.2	9.3	8.4	8.1	7.0
31	9.7	---	9.7	21	---	6.2	---	5.8	---	8.4	8.1	---
TOTAL	469.6	291.0	301.3	788.6	6780.4	205.0	183.6	190.6	235.8	277.0	255.9	225.1
MEAN	15.1	9.70	9.72	25.4	234	6.61	6.12	6.15	7.86	8.94	8.25	7.50
MAX	126	9.7	10	422	1590	17	6.6	6.2	9.3	9.3	8.4	8.1
MIN	9.7	9.7	9.7	9.3	7.0	5.8	5.8	5.8	5.8	8.4	8.1	7.0
AC-FT	931	577	598	1560	13450	407	364	378	468	549	508	446
MEAN†	20.8	18.3	44.6	127	520	291	330	178	50.8	16.1	13.2	7.88
AC-FT†	1280	1090	2740	7810	29890	17900	9660	10940	3020	989	810	469

CAL YR 1967 TOTAL 47289.4 MEAN 130 MAX 1950 MIN 8.9 AC-FT 93800 MEAN† 248 AC-FT† 179200
WTR YR 1968 TOTAL 10203.9 MEAN 27.9 MAX 1590 MIN 5.8 AC-FT 20240 MEAN† 133 AC-FT† 96600

† ADJUSTED FOR DIVERSION TO SLATE CREEK TUNNEL.

11413300 SLATE CREEK BELOW DIVERSION DAM, NEAR STRAWBERRY VALLEY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	8.8	11	11	380	142	803	398	584	9.2	9.8	9.8
2	7.0	9.3	11	11	332	134	726	42	227	9.2	9.8	9.8
3	7.0	9.7	11	11	307	128	593	22	9.8	9.2	9.8	9.8
4	7.0	9.3	11	11	285	123	537	12	13	9.2	9.8	9.8
5	7.0	11	11	11	278	123	716	64	9.8	8.6	9.8	9.8
6	6.6	11	11	11	257	122	614	237	9.8	8.6	9.8	9.8
7	6.6	11	11	11	233	120	517	350	9.2	8.6	9.8	9.8
8	6.6	11	11	11	216	120	492	436	9.2	8.6	9.8	9.8
9	7.0	10	11	11	235	120	486	552	9.2	21	9.8	9.8
10	7.0	10	12	11	259	119	492	608	9.2	55	9.8	9.2
11	7.0	11	12	11	289	116	576	616	8.6	55	9.8	9.8
12	7.0	11	11	11	289	116	677	616	8.6	53	9.8	9.8
13	8.1	11	11	319	227	115	708	520	8.6	51	9.8	9.8
14	8.1	11	11	288	249	116	635	816	8.6	49	9.8	9.8
15	8.1	11	12	12	249	124	561	955	8.6	27	9.8	9.8
16	8.1	10	12	11	239	141	565	955	8.6	9.8	9.8	9.8
17	8.1	10	11	11	216	162	628	1020	8.6	9.8	9.8	24
18	8.1	10	11	12	205	192	792	1040	9.2	9.8	9.8	7.6
19	8.1	10	11	1940	196	187	758	980	9.2	9.8	9.8	8.1
20	8.1	10	11	6510	192	194	778	860	9.2	9.8	9.8	8.1
21	8.1	10	11	5540	173	198	902	840	9.2	9.8	9.8	8.6
22	8.1	10	11	2090	167	209	994	872	9.2	9.8	9.8	8.6
23	8.1	10	11	960	163	247	978	905	9.2	9.8	9.2	8.6
24	8.4	10	12	706	147	267	768	864	9.2	9.8	9.2	10
25	8.4	10	12	1730	158	287	642	792	9.2	9.2	9.2	9.2
26	8.4	10	11	3340	156	321	590	752	9.2	9.2	9.2	9.2
27	8.4	11	11	1310	144	367	576	712	9.2	9.2	9.2	8.6
28	8.4	11	11	838	140	441	628	628	9.2	9.2	9.8	8.6
29	8.4	11	11	632	---	514	768	608	9.2	9.2	9.8	8.6
30	8.8	11	11	508	---	621	822	624	9.2	9.8	9.8	8.6
31	8.8	---	11	420	---	789	---	632	---	9.8	9.8	---
TOTAL	239.9	310.1	347	27309	6381	6975	20322	19328	1070.0	536.0	300.8	292.6
MEAN	7.74	10.3	11.2	881	228	225	677	623	35.7	17.3	9.70	9.75
MAX	8.8	11	12	6510	380	789	994	1040	584	55	9.8	24
MIN	6.6	8.8	11	11	140	115	486	12	8.6	8.6	9.2	7.6
AC-FT	476	615	688	54170	12660	13830	40310	38340	2120	1060	597	580
MEAN†	18.5	74.6	105	1050	228	225	677	907	261	42.4	17.1	11.3
AC-FT†	1140	4440	6430	64680	12660	13830	40310	55760	15550	2610	1050	673

CAL YR 1968 TOTAL 10039.0 MEAN 27.4 MAX 1590 MIN 5.8 AC-FT 19910 MEAN† 143 AC-FT† 103500
WTR YR 1969 TOTAL 83411.4 MEAN 229 MAX 6510 MIN 6.6 AC-FT 165400 MEAN† 302 AC-FT† 219100

† ADJUSTED FOR DIVERSION TO SLATE CREEK TUNNEL.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.6	9.2	9.2	10	436	688	15	11	9.8	9.2	11	5.7
2	8.6	9.2	9.2	10	392	450	14	11	9.8	9.0	11	6.9
3	8.6	9.2	9.2	10	372	395	14	11	9.8	8.5	11	6.9
4	8.6	9.2	9.2	10	181	330	14	10	9.8	8.1	12	7.3
5	8.6	9.8	9.2	10	9.8	300	14	10	9.8	8.1	11	9.0
6	8.6	9.2	9.2	21	9.8	284	14	10	9.8	8.1	11	9.8
7	8.6	9.2	9.2	10	9.8	280	14	9.8	9.8	8.1	11	9.4
8	9.2	9.2	9.2	12	9.8	318	14	9.8	9.8	8.1	11	7.7
9	8.6	9.2	9.2	225	9.8	276	14	9.8	9.8	8.1	11	7.7
10	8.6	9.2	9.2	390	12	262	14	9.8	9.8	8.1	11	8.5
11	8.6	9.2	9.8	12	9.2	234	14	9.8	9.8	8.1	13	5.7
12	8.6	9.2	10	157	13	225	14	9.8	9.8	8.1	14	3.4
13	9.2	9.2	9.8	1260	9.8	224	14	9.8	9.8	8.1	12	4.6
14	9.2	9.2	9.2	3090	9.8	113	14	9.8	9.8	8.1	11	8.5
15	9.2	9.2	9.2	1210	9.8	10	14	9.8	9.8	8.1	10	7.3
16	9.2	9.2	9.2	4250	9.8	150	14	9.8	9.8	8.1	9.8	6.9
17	9.2	9.2	9.2	3150	230	275	14	9.8	9.8	8.1	10	6.9
18	9.2	9.2	9.2	1670	302	217	14	9.8	9.8	8.1	11	5.7
19	9.2	9.2	181	1290	274	245	14	9.8	9.8	8.1	11	6.1
20	9.2	9.2	769	1450	241	243	14	9.8	9.8	8.1	12	6.5
21	9.2	9.2	2670	4500	246	250	14	9.8	9.8	8.1	18	6.5
22	9.2	9.2	529	4380	240	248	14	9.8	9.8	8.1	35	9.4
23	9.2	9.2	149	3230	232	231	14	9.8	9.8	8.1	38	9.4
24	9.2	9.2	1890	3880	210	264	14	9.8	9.8	8.1	19	8.5
25	9.2	9.2	1250	1790	96	250	14	9.8	9.8	8.1	14	8.5
26	9.2	9.2	294	1120	124	223	14	9.8	9.8	8.1	10	8.5
27	9.2	9.2	17	1480	240	173	14	9.8	9.8	8.1	8.1	8.1
28	9.2	9.2	11	940	331	14	14	9.8	9.8	13	7.3	7.7
29	9.2	9.2	13	712	---	13	14	9.8	9.8	11	5.7	6.1
30	9.2	9.2	11	564	---	13	12	9.8	9.8	11	5.4	5.0
31	9.2	---	10	497	---	13	---	9.8	---	11	6.5	---
TOTAL	278.6	276.6	7961.6	41340	4269.4	7211	419	308.0	294.0	267.1	391.8	218.2
MEAN	8.99	9.22	257	1334	152	233	14.0	9.94	9.80	8.62	12.6	7.27
MAX	9.2	9.8	2670	4500	436	688	15	11	9.8	13	38	9.8
MIN	8.6	9.2	9.2	10	9.2	10	12	9.8	9.8	8.1	5.4	3.4
AC-FT	553	549	15790	82000	8470	14300	831	611	583	530	777	433
MEAN†	19.0	21.0	498	1556	278	286	134	153	54.4	16.9	13.9	7.85
AC-FT†	1170	1250	30620	95670	15430	17560	8000	9400	3240	1040	854	467

CAL YR 1969 TOTAL 91031.2 MEAN 249 MAX 6510 MIN 7.6 AC-FT 180600 MEAN† 332 AC-FT† 240200
WTR YR 1970 TOTAL 63235.3 MEAN 173 MAX 4500 MIN 3.4 AC-FT 125400 MEAN† 255 AC-FT† 184700

† ADJUSTED FOR DIVERSION TO SLATE CREEK TUNNEL.

11413500 NORTH YUBA RIVER BELOW BULLARDS BAR DAM, CALIF.

LOCATION.--Lat 39°24'15", long 121°08'30", in NE¼SE¼ sec.24, T.18 N., R.7 E., Yuba County, Plumas National Forest, on right bank 2,000 ft downstream from Bullards Bar Dam, 3 miles upstream from confluence with Middle Yuba River, and 3 miles northwest of North San Juan.

DRAINAGE AREA.--487 sq mi.

PERIOD OF RECORD.--October 1940 to September 1966 (discontinued). Prior to October 1949, published as North Fork Yuba River at Colgate diversion dam and October 1949 to September 1950 as "at Colgate diversion dam." Monthly discharge only for some periods, published in WSP 1315-A.

GAGE.--Water-stage recorder. Altitude of gage is 1,390 ft (from river-profile map). Prior to Oct. 1, 1950, at site 1.5 miles downstream at different datum.

AVERAGE DISCHARGE.--26 years, 1,496 cfs (1,083,000 acre-ft per year).

EXTREMES.--Maximum discharge during water year 1966, 4,420 cfs Apr. 10 (gage height, 9.81 ft); no flow Oct. 13-18, 23, 24.

Period of record: Maximum discharge, 91,600 cfs Dec. 22, 1964 (gage height, 40.45 ft in gage well, 43.9 ft outside, from floodmarks), from rating curve extended above 32,000 cfs on basis of computations of flow over dams at 29.5 and 42.0 ft; no flow at times in 1947, 1956-57, 1966.

REMARKS.--Records good. No gage-height record Aug. 24 to Sept. 30, 1966. Flow usually completely regulated below 650 cfs by Bullards Bar powerhouse, otherwise slightly regulated by Bullards Bar Reservoir (usable capacity, 13,050 acre-ft). Water is diverted out of basin through Slate Creek tunnel (see station 11413250).

REVISIONS.--WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	300	447	582	542	592	810	2960	1810	893	386	321	259
2	276	447	582	542	592	785	3320	2000	832	386	309	262
3	265	420	582	542	592	750	3000	2140	795	393	298	216
4	265	447	569	546	592	715	2780	2250	755	400	308	203
5	258	451	560	675	725	685	2710	2420	720	424	308	203
6	250	451	560	1470	1290	685	2780	2430	700	520	227	263
7	245	451	560	1620	1230	735	2800	2250	705	443	227	259
8	245	451	560	1330	1010	849	2760	2260	695	382	304	262
9	245	438	560	1150	882	926	2670	2230	670	306	305	270
10	245	443	560	1030	795	1660	4000	2970	650	312	306	133
11	98	432	560	915	765	1860	4040	2720	630	372	250	126
12	4.0	410	560	849	695	1560	3400	2240	605	317	197	179
13	0	376	556	765	660	2190	2930	2040	587	331	87	189
14	0	404	556	740	640	2390	2510	1990	578	327	81	186
15	0	459	560	725	625	2140	2500	1840	551	312	191	189
16	0	447	560	720	580	1820	2660	1740	574	221	198	183
17	0	366	542	720	610	1650	3070	1670	569	231	224	145
18	0	491	542	715	605	1500	3150	1610	569	333	259	128
19	34	954	542	680	620	1450	2480	1590	564	316	195	185
20	23	810	542	650	730	1390	2170	1590	560	314	87	198
21	17	640	533	620	735	1310	2010	1580	560	316	83	190
22	17	582	511	610	735	1260	2040	1510	435	288	215	193
23	0	440	491	605	785	1230	2040	1430	368	221	270	188
24	0	888	424	600	992	1270	2170	1330	372	223	284	145
25	18	1090	393	600	998	1380	2380	1260	372	310	291	125
26	44	790	455	596	937	1540	2670	1230	382	306	288	169
27	262	650	511	596	866	1740	2280	1180	386	288	209	166
28	475	592	474	592	816	1990	2020	1120	386	279	204	177
29	459	582	507	587	---	2230	1980	1060	386	307	281	177
30	451	582	542	345	---	2480	1830	1010	386	219	276	213
31	451	---	542	592	---	2660	---	954	---	227	251	---
TOTAL	4947.0	16431	16578	23269	21694	45640	80110	55454	17235	10010	7334	5781
MEAN	160	548	535	751	775	1472	2670	1789	575	323	237	193
MAX	475	1090	582	1620	1290	2660	4040	2970	893	520	321	270
MIN	0	366	393	345	580	685	1830	954	368	219	81	125
AC-FT	9810	32590	32880	46150	43030	90530	158900	110000	34190	19850	14550	11470

CAL YR 1965 TOTAL 622506.0 MEAN 1705 MAX 19000 MIN 0 AC-FT 1235000
WTR YR 1966 TOTAL 304483.0 MEAN 834 MAX 4040 MIN 0 AC-FT 603900

11413510 NEW COLGATE POWERPLANT NEAR FRENCH CORRAL, CALIF.

LOCATION.--Lat 39°19'51", long 121°11'23", in NE¼SE¼ sec.16, T.17 N., R.7 E., Yuba County, at powerplant on right bank of Yuba River, 0.3 mile upstream from Dobbins Creek and 2.3 miles northwest of French Corral.

PERIOD OF RECORD.--October 1966 to September 1970. Records of daily discharge for October 1960 to September 1966 are available in files of the Geological Survey.

GAGE.--Recorded output from powerplant turbines.

EXTREMES.--Period of record: Maximum daily discharge, 3,260 cfs Mar. 2, May 5, 1970; no flow for several days in each year.

REMARKS.--Water is diverted from North Yuba River at New Bullards Bar Dam (see station 11413515). Colgate powerplant was rebuilt during water year 1970 with an increased capacity. Browns Valley ditch diverts up to 10 cfs at times from head of penstock for use in irrigation. See schematic diagram of Yuba River basin elsewhere in this report.

COOPERATION.--Records collected by Pacific Gas & Electric Co., under general supervision of the Geological Survey, in connection with a Federal Power Commission project.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	183	0	541	506	532	464	314	541	536	545	489	280
2	129	0	532	494	528	476	532	541	541	545	453	280
3	144	0	528	489	532	476	545	541	541	549	502	280
4	144	0	532	502	532	381	545	541	541	549	502	280
5	147	0	515	361	404	519	545	541	541	545	506	278
6	142	0	515	489	532	519	545	541	541	541	511	267
7	142	0	485	506	541	494	541	541	541	519	511	261
8	142	75	524	506	541	519	536	545	536	502	511	267
9	142	384	524	506	545	524	532	541	536	515	506	272
10	124	356	532	511	325	524	532	541	536	519	502	267
11	0	519	532	472	0	519	464	541	541	519	506	264
12	0	511	532	536	0	519	536	541	541	519	412	253
13	0	511	532	536	0	515	545	541	536	519	418	242
14	0	519	524	536	0	519	541	541	536	519	367	245
15	0	532	438	536	0	524	541	541	536	519	364	234
16	0	418	515	541	0	481	536	541	536	519	361	239
17	0	0	519	541	0	524	541	541	536	519	367	375
18	0	54	524	541	0	524	541	541	541	515	339	378
19	0	532	528	536	0	519	541	536	536	515	341	272
20	0	336	528	536	314	506	541	536	468	515	341	0
21	0	511	528	481	375	387	541	536	524	515	341	0
22	0	549	528	178	472	524	541	536	528	515	314	72
23	0	541	524	519	472	524	541	536	532	515	300	327
24	0	536	524	545	464	528	541	536	532	515	300	314
25	0	545	524	541	472	524	541	536	541	511	300	333
26	0	532	524	541	476	524	536	536	541	515	314	294
27	0	532	524	545	476	524	364	536	545	506	322	291
28	0	532	519	545	472	524	459	536	545	506	339	291
29	0	532	524	541	---	524	541	536	554	506	333	291
30	248	532	356	541	---	524	511	536	549	506	316	305
31	0	---	506	532	---	524	---	536	---	489	280	---
TOTAL	1687	10089	15981	15690	9005	15677	15610	16710	16088	16106	12268	7752
MEAN	54.4	336	516	506	322	506	520	539	536	520	396	258
MAX	248	549	541	545	545	528	545	545	554	549	511	378
MIN	0	0	356	178	0	381	314	536	468	489	280	0
AC-FT	3350	20010	31700	31120	17860	31100	30960	33140	31910	31950	24330	15380

WTR YR 1967 TOTAL 152663 MEAN 418 MAX 554 MIN 0 AC-FT 302800

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	333	308	367	502	489	541	545	549	549	375	152	0
2	336	364	344	481	494	541	545	524	549	364	0	0
3	356	353	358	498	489	545	549	549	549	347	0	0
4	459	350	375	481	489	545	549	549	549	347	0	0
5	464	350	421	472	494	545	549	554	545	350	0	0
6	485	350	387	481	485	545	549	554	545	350	0	0
7	481	350	498	464	489	541	545	549	502	358	0	0
8	481	294	498	447	489	485	545	549	545	384	0	0
9	472	325	498	441	489	541	545	549	545	409	0	0
10	450	300	498	438	494	545	545	549	545	468	0	0
11	429	283	506	435	498	545	545	549	545	481	0	0
12	421	223	502	459	498	545	545	549	528	481	0	0
13	398	226	468	409	528	545	545	545	541	485	0	0
14	300	218	506	347	545	545	545	545	541	489	0	0
15	283	234	432	398	545	541	545	545	536	494	0	0
16	264	234	432	468	545	541	545	549	532	489	0	0
17	264	209	450	485	558	519	545	549	528	472	0	0
18	314	231	432	528	549	545	545	549	532	476	0	0
19	333	280	453	515	545	545	545	549	524	441	0	129
20	398	367	453	515	545	549	545	549	441	387	0	350
21	356	350	438	519	545	549	545	545	435	384	0	336
22	350	267	447	519	545	519	549	545	432	372	0	226
23	358	269	444	515	536	541	549	549	401	314	0	202
24	325	199	444	515	545	545	541	549	372	283	0	186
25	325	256	381	515	541	519	545	549	375	275	0	435
26	330	283	364	519	541	545	545	545	327	248	0	438
27	267	272	392	528	498	545	545	300	353	245	0	435
28	319	269	447	532	528	549	545	545	375	218	0	427
29	353	325	444	511	541	549	549	545	367	210	0	415
30	275	294	494	476	---	549	549	545	361	226	0	418
31	294	---	498	481	---	549	---	549	---	199	0	---
TOTAL	11273	8633	13671	14894	15077	16753	16378	16719	14469	11421	152	3997
MEAN	364	288	441	480	520	540	546	539	482	368	4.90	133
MAX	485	367	506	532	558	549	549	554	549	494	152	438
MIN	264	199	344	347	485	485	541	300	327	199	0	0
AC-FT	22360	17120	27120	29540	29910	33230	32490	33160	28700	22650	301	7930

CAL YR 1967 TOTAL 158483.00 MEAN 434 MAX 554 MIN 0 AC-FT 314400
WTR YR 1968 TOTAL 143437.00 MEAN 392 MAX 558 MIN 0 AC-FT 284500

11413510 NEW COLGATE POWERPLANT NEAR FRENCH CORRAL, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	280	157	409	519		0	541	528	453	0	78	194
2	361	157	401	395		0	519	472	453	0	97	226
3	472	155	404	532		0	415	269	450	0	105	132
4	453	215	404	536		0	132	297	0	0	120	155
5	453	506	283	536		0	389	297	0	0	126	161
6	459	498	372	541		0	392	297	0	0	113	145
7	447	407	498	541		0	398	297	0	10	113	145
8	267	502	438	541		0	409	316	0	110	120	194
9	272	502	341	536		0	536	333	0	107	113	123
10	231	511	289	541		0	424	356	0	84	113	155
11	197	511	498	541		0	256	356	0	110	113	152
12	144	511	541	524		0	261	353	0	107	97	107
13	117	519	524	541		0	261	353	0	107	110	120
14	152	519	541	453		0	258	319	0	103	110	120
15	450	515	524	532		0	256	375	0	103	107	120
16	450	459	519	519		0	194	311	0	110	107	0
17	447	528	472	519		0	432	305	0	116	113	0
18	381	532	541	532		0	519	300	0	103	135	0
19	0	532	541	441		0	541	291	0	103	194	0
20	0	532	316	189		0	528	302	0	107	188	0
21	80	532	541	0		0	541	350	0	107	210	0
22	176	532	536	70		0	481	350	0	120	204	0
23	256	532	524	384		0	524	327	0	123	204	0
24	250	536	536	412		0	536	367	0	107	223	0
25	250	536	498	289		0	444	401	0	120	229	0
26	239	498	438	0		0	532	401	0	110	229	0
27	245	532	524	0		107	481	401	0	107	180	0
28	237	519	528	0		545	502	409	0	135	171	0
29	234	511	532	0	---	545	489	367	0	107	210	0
30	231	519	532	0	---	549	502	450	0	123	161	0
31	157	---	519	0	---	549	---	447	---	123	113	---
TOTAL	8388	14015	14564	11164	0	2295	12693	10997	1356	2662	4506	2249
MEAN	271	467	470	360	0	74.0	423	355	45.2	85.9	145	75.0
MAX	472	536	541	541	0	549	541	528	453	135	229	226
MIN	0	155	283	0	0	0	132	269	0	0	78	0
AC-FT	16640	27800	28890	22140	0	4550	25180	21810	2690	5280	8940	4460

CAL YR 1968 TOTAL 146827.00 MEAN 401 MAX 558 MIN 0 AC-FT 291200
WTR YR 1969 TOTAL 84889.00 MEAN 233 MAX 549 MIN 0 AC-FT 168400

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0		0	1520	2980	0	3250	3220	841	1020	2430
2	0	0		0	1140	3260	0	3080	1920	916	1160	3000
3	0	0		0	1980	2780	0	3170	1730	1060	1150	2260
4	0	101		0	1880	1440	0	3160	1250	713	2080	2440
5	0	87		0	1950	1490	0	3260	952	0	1730	2170
6	0	0		0	1850	1640	0	3220	1350	59	1810	2300
7	0	148		0	1740	2740	0	2660	724	603	1720	2200
8	0	0		0	1550	2140	0	719	289	1330	1690	1930
9	0	0		0	1690	2510	0	658	272	643	1130	2590
10	0	0		0	2380	2650	0	1200	2250	825	671	2490
11	0	0		0	1220	2210	0	3200	2430	617	1990	1050
12	0	0		0	1360	1990	0	3240	1470	0	2110	463
13	0	0		0	1360	2090	0	3210	619	209	1370	353
14	0	0		0	1700	3000	0	3240	474	800	1810	957
15	0	0		0	1090	3000	0	3210	1760	946	1190	2420
16	0	0		0	686	2630	0	3230	1620	951	1420	1740
17	0	0		0	755	2960	0	3150	1540	1140	1270	2380
18	0	0		0	1160	2560	0	855	1590	474	1850	2570
19	0	0		0	1630	3000	0	547	1480	241	1640	1910
20	0	0		0	1090	3000	0	2610	861	744	1700	2710
21	0	0		0	1730	2950	0	2720	687	1610	2360	2090
22	0	0		0	1590	2850	0	2660	846	1890	1450	2550
23	0	0		0	1550	3010	1250	1000	540	1510	1660	2620
24	0	0		0	2180	2960	1500	0	536	1940	1780	2540
25	0	0		0	2310	3000	1500	1190	1880	790	2870	2400
26	0	0		507	3250	1870	1620	2780	1340	1040	2590	1140
27	0	0		1210	3250	0	2940	1810	913	1370	2630	30
28	0	0		1540	3250	0	2870	39	0	2290	2790	1130
29	56	0		1000	---	812	2870	225	0	1450	1690	1730
30	217	0		1710	---	1500	2940	2900	1300	2250	1740	3160
31	440	---		1680	---	1440	---	1890	---	1740	1020	---
TOTAL	713	336	0	7647	48841	70462	17490	68083	35843	30992	53091	59753
MEAN	23.0	11.2	0	247	1744	2273	583	2196	1195	1000	1713	1992
MAX	440	148	0	1710	3250	3260	2940	3260	3220	2290	2870	3160
MIN	0	0	0	0	686	0	0	0	0	0	671	30
AC-FT	1410	666	0	15170	96880	139800	34690	135000	71090	61470	105300	118500

CAL YR 1969 TOTAL 48971.00 MEAN 134 MAX 549 MIN 0 AC-FT 97130
WTR YR 1970 TOTAL 393251.00 MEAN 1077 MAX 3260 MIN 0 AC-FT 780000

11413515 NEW BULLARDS BAR RESERVOIR NEAR NORTH SAN JUAN, CALIF.

LOCATION.--Lat 39°23'34", long 121°08'25", in SE¼NW¼ sec.25, T.18 N., R.7 E., Yuba County, Plumas National Forest, in center of dam on North Yuba River, 2.2 miles upstream from Middle Yuba River and 2.4 miles northwest of North San Juan.

DRAINAGE AREA.--489 sq mi.

PERIOD OF RECORD.--January 1969 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Yuba County Water Agency).

EXTREMES.--Maximums and minimums (contents in acre-feet, elevation in feet) for January 1969 to September 1970 are contained in the following table:

	Maximum			Minimum		
Wtr yr	Date	Contents	Elevation	Date	Contents	Elevation
1969	Sept.30, 1969	541,100	1,853.4	-	-	-
1970	Apr. 22, 1970	951,600	1,953.0	Oct. 1, 1969	551,220	1,853.5

Period of record: Maximum contents, 951,600 acre-ft Apr. 22, 1970 (elevation, 1,953.0 ft); minimum since initial season of normal operation, 551,220 acre-ft Oct. 1, 1969 (elevation, 1,853.5 ft).

REMARKS.--Reservoir is formed by a concrete-arch dam with a concrete sidehill spillway. Spill controlled by three 30- by 53-foot radial gates. Storage began in January 1969. Usable capacity, 727,380 acre-ft between elevations 1,732.0 (minimum power pool) and 1,955.0 ft (normal gross pool). Dead storage, 233,920 acre-ft. Total capacity at normal gross pool (1,955.0 ft), 961,300 acre-ft. Water is released to Colgate powerplant through a tunnel at the dam. Water is diverted into the reservoir from Middle Yuba River via Lohman Ridge tunnel to Oregon Creek then via Camptonville tunnel. Records represent total contents. See schematic diagram of Yuba River basin elsewhere in this report.

COOPERATION.--Records collected by Yuba County Water Agency under general supervision of the Geological Survey in connection with a Federal Power Commission project.

Capacity table, January 1969 to September 1970 (elevation, in feet, and contents, in acre-feet)

1,600.0	64,900	1,690.0	162,980	1,800.0	389,980	1,955.0	961,300
1,630.0	90,570	1,720.0	211,770	1,850.0	539,750		
1,660.0	122,990	1,750.0	270,110	1,900.0	721,130		

CONTENTS, IN ACRE-FEET, AT 2400, JANUARY TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				---	---	---	146600	209500	---	512500	541400	---
2				---	---	---	151000	204700	369100	514100	---	547000
3				---	250800	103600	155500	---	373000	515700	---	547400
4				---	244000	103400	157000	---	379800	---	542700	547400
5				---	237800	104200	---	219300	388600	---	543100	547400
6				---	231800	104900	---	---	397000	---	543400	---
7				---	225400	105100	159600	234100	---	521100	543700	---
8				---	---	105200	---	243600	---	522100	544100	547400
9				---	---	---	153300	254400	417800	523400	---	547700
10				---	206300	105000	150500	---	424300	524700	---	547700
11				---	200900	104900	152100	---	429400	526000	545400	547700
12				---	199000	104700	---	297300	435500	---	545400	547700
13				---	195200	103900	---	305700	441000	---	545700	547700
14				59700	189700	103300	162400	317300	---	529200	546000	---
15				65300	184300	---	166400	318800	---	529900	546400	547700
16				67000	---	---	168200	318300	459000	531200	---	547700
17				67400	178200	102800	173700	---	464400	531900	---	548000
18				67400	173100	103000	180100	---	469500	532800	546700	548400
19				---	167500	103400	---	320200	474100	---	546700	548700
20				106600	162500	103900	---	319500	478700	---	546700	---
21				181400	155700	104600	200100	319000	---	528600	547000	---
22				235100	---	---	209600	318300	---	535800	547000	549700
23				256800	---	---	220100	317600	493200	536500	---	549700
24				267000	138000	107100	229600	---	496300	537100	---	550000
25				275400	132600	108400	236400	---	499500	537800	546700	550400
26				294600	---	112700	---	332100	501400	---	546700	550400
27				293300	121400	117600	---	344400	503900	---	547000	---
28				284100	115900	121900	221200	344400	506400	539400	547000	---
29				277100	---	---	215900	345700	---	540100	547000	550700
30				271800	---	---	212300	---	509900	540400	---	551100
31				267200	---	140100	---	---	---	540700	---	---
MAX												
MIN												
(†)				1748.6	1654.0	1673.6	1720.3		1840.8	1850.3		1853.4
(‡)					-151300	+24200	+72200			+30800		

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11413515 NEW BULLARDS BAR RESERVOIR NEAR NORTH SAN JUAN, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	551220	566400	572450	745170	886340	887700	887380	931900	925530	923340	884070	792010
2	551320	566580	567020	748010	890610	891560	891520	928660	925350	922550	882450	786630
3	551320	566580	570470	750450	887750	893200	894660	925440	925490	921620	880730	782610
4	551390	566920	571090	752890	889150	892610	896710	922730	926510	920410	877210	778270
5	551550	567600	571120	755420	890600	888880	899000	920130	927960	921760	874290	774400
6	551550	568960	571290	757380	887160	890240	901290	918040	928430	922640	871370	770420
7	551720	569920	571420	759020	887550	890700	904820	916550	929790	922360	868410	766620
8	552160	571010	572110	761560	889150	893480	909200	918830	931850	920590	865560	763290
9	552730	572040	572730	763540	890020	894930	912240	921380	934060	920030	863730	758610
10	553060	572620	573340	771790	889240	892240	915210	922920	932700	919380	862880	754190
11	553560	573750	574650	780110	890190	890060	918360	920360	930630	918780	859540	752640
12	554070	573990	576400	788480	888650	887610	922080	917430	930770	919480	855900	751780
13	553560	575470	577540	799280	887700	884660	925200	914370	931660	919900	853600	751260
14	553730	576230	578940	825080	888470	884120	928670	911460	932600	919110	850510	749630
15	540580	576920	582850	861850	887750	883890	931800	908740	931480	917990	848520	745290
16	556320	577740	583480	885750	887200	883760	934620	906660	930210	916750	846280	742290
17	558440	578500	584350	917340	889240	883530	937640	905650	928890	915900	844080	738060
18	556880	579090	585830	916410	887160	883800	940610	909660	927540	914980	841060	733560
19	561820	579670	586120	916510	886290	882850	943580	913870	926420	915070	838340	730000
20	561280	580300	596000	918690	888650	881500	946660	913630	926280	914420	835550	725100
21	561820	580990	618000	920040	889520	879920	949230	912930	926290	911880	831280	721480
22	562530	581510	645590	914980	889420	878560	951600	912250	926280	908780	828850	716770
23	563110	582020	653260	914420	890640	876900	951560	914510	926560	906340	826030	711920
24	563520	582610	676060	893520	888060	875230	950800	919110	926890	903020	823220	707410
25	563860	582990	699730	878200	887160	874240	950130	921150	925490	902120	817970	703030
26	564360	581960	718750	877930	885160	874650	948900	920690	923200	900560	813420	701040
27	565010	579600	730680	890880	883440	878920	946050	921570	922690	898720	808710	701320
28	565010	577950	741130	904040	881990	882630	942690	925810	924040	894840	803720	699560
29	565830	573410	735090	909380	---	884570	939050	929600	925160	892520	800800	696500
30	565900	572730	739150	896210	---	885030	935470	928150	923950	888700	797790	690540
31	565960	---	742180	889610	---	885300	---	928060	---	885800	796270	---
MAX	565960	582990	742180	920040	890640	894930	951600	931900	934060	923340	884070	792010
MIN	540580	566400	567020	745170	881990	874240	887380	905650	922690	885800	796270	690540
(†)	1857.8	1859.8	1905.3	1939.6	1938.0	1938.7	1949.6	1948.0	1947.1	1938.8	1918.3	1892.2
(‡)	+14860	+6770	+169450	+147430	-7620	+3310	+50170	-7410	-4110	-38150	-89530	-105730

WTR YR 1970 MAX 951600 MIN 540580 ‡ +139440

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11413520 NORTH YUBA RIVER BELOW NEW BULLARDS BAR DAM, NEAR NORTH SAN JUAN, CALIF.

LOCATION.--Lat 39°22'48", long 121°08'19", in SW¼NE¼ sec.36, T.18 N., R.7 E., Yuba County, Plumas National Forest, on right bank 1.1 miles downstream from New Bullards Bar Dam and 2 miles northwest of North San Juan.

DRAINAGE AREA.--490 sq mi.

PERIOD OF RECORD.--August 1966 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 1,280 ft (from topographic map).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for August 1966 to September 1970 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	-	-	-	Sept.12, 1966	.7
1967	Jan. 21, 1967	21,600	23.45	Nov. 5, 1966	.42
1968	Feb. 21, 1968	14,400	19.31	Jan. 8, 1968	.60
1969	Jan. 26, 1969	20,700	a25.3	Mar. 26, 1969	3.1
1970	Jan. 22, 1970	56,200	35.29	June 25-27, 1970	1.3

a From floodmarks.

Period of record: Maximum discharge, 56,200 cfs Jan. 22, 1970 (gage height, 35.29 ft), from rating curve extended above 40,000 cfs on basis of computation of flow over old Colgate Dam referenced to floodmarks at 49.8 ft; minimum daily, 0.42 cfs Nov. 5, 1966.

REMARKS.--Records fair except those for periods of no-gage height record, which are poor. Since 1969, flow regulated by New Bullards Bar Reservoir (see station 11413515). Colgate powerplant (see station 11413510) diverts 0.9 mile upstream. Water is diverted out of basin through Slate Creek tunnel (see station 11413250). See schematic diagram of Yuba River basin elsewhere in this report.

DISCHARGE, IN CUBIC FEET PER SECOND, AUGUST TO SEPTEMBER 1966

DAY	AUG	SEP	DAY	AUG	SEP	DAY	AUG	SEP	DAY	AUG	SEP	DAY	AUG	SEP	DAY	AUG	SEP
1		.8	6		2.0	11		1.8	16	2.0	5.0	21	1.0	12	26	2.4	1.3
2		.8	7		2.8	12		.7	17	1.8	6.2	22	2.2	2.4	27	2.2	1.3
3		1.0	8		.9	13	2.9	3.3	18	9.8	1.6	23	2.0	2.2	28	1.9	2.9
4		1.3	9		1.0	14	1.5	3.1	19	3.5	2.0	24	1.1	1.0	29	1.0	5.0
5		1.2	10		3.8	15	.8	8.3	20	2.4	3.5	25	1.6	1.0	30	.8	6.5
															31	.9	

TOTAL		86.7
MEAN		2.89
MAX		12
MIN		.7
AC-FT		172

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	1.1	2000	109	6520	574	2090	1000	3930	2470	74	17
2	5.9	.45	5600	86	4070	578	1700	1020	3200	2260	82	17
3	3.5	.50	5540	73	3230	573	1590	1140	2810	2150	55	14
4	2.2	.50	2420	68	2550	624	1560	1360	2930	1860	50	14
5	1.5	.42	5800	62	2300	448	1630	1780	3440	1630	43	18
6	1.3	1.1	4680	58	2000	413	2080	1700	3620	1470	41	16
7	1.3	.70	3290	52	1800	419	2350	2220	3640	1330	32	20
8	.91	4.1	2340	49	1650	402	2040	3080	3710	1140	16	19
9	1.5	12	1630	47	1550	413	1920	3950	3940	985	16	18
10	2.0	17	1410	39	1870	463	1900	4370	3950	876	23	18
11	13	38	1270	26	2010	806	1770	3290	3980	790	19	18
12	9.5	34	952	21	2000	782	1470	2700	3930	720	23	16
13	12	30	838	20	2140	815	1400	2450	4640	654	19	16
14	7.7	26	840	19	2180	684	1480	2480	3820	603	21	15
15	3.7	18	844	19	1960	626	1460	3070	4130	552	21	18
16	3.7	269	655	17	1810	9370	1330	4400	4200	502	22	26
17	1.6	553	582	16	1700	12400	1330	5310	4560	459	15	50
18	1.1	391	510	15	1830	6850	1540	5760	4860	406	15	50
19	1.5	39	459	13	1680	5320	1460	5730	4930	368	15	30
20	1.3	1750	423	25	1250	4110	1350	6330	4990	321	16	2.9
21	1.2	1760	397	5880	1050	4070	1240	7250	4580	291	15	4.0
22	1.0	1260	357	8490	774	3880	1160	7640	4210	262	12	7.6
23	2.4	405	323	2630	726	4530	1220	7400	3710	236	13	9.7
24	2.9	146	294	2010	713	4210	1420	7540	3200	214	14	11
25	1.8	31	260	1650	729	3500	1330	7150	3170	195	14	8.1
26	1.9	20	234	1380	659	3000	1270	6370	3420	170	14	4.0
27	1.7	18	202	1750	601	2560	1570	6060	2980	147	20	3.0
28	1.6	100	165	2930	574	2410	1200	5840	2850	131	22	2.9
29	19	3500	138	13400	---	2270	1080	5220	2810	118	14	2.9
30	44	1700	147	10900	---	2100	1040	4800	2630	109	13	7.8
31	7.7	---	126	10700	---	2110	---	4540	---	99	17	---
TOTAL	166.91	12125.87	44726	62554	51926	81310	45980	132950	112770	23518	786	473.9
MEAN	5.38	404	1443	2018	1855	2623	1533	4289	3759	759	25.4	15.8
MAX	44	3500	5800	13400	6520	12400	2350	7640	4990	2470	82	50
MIN	.91	.42	126	13	574	402	1040	1000	2630	99	12	2.9
AC-FT	331	24050	88710	124100	103000	161300	91200	263700	223700	46650	1560	940

WTR YR 1967 TOTAL 569286.68 MEAN 1560 MAX 13400 MIN .42 AC-FT 1129000

11413520 NORTH YUBA RIVER BELOW NEW BULLARDS BAR DAM, NEAR NORTH SAN JUAN, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	1.6	18	4.1	274	2050	1790	1270	436	6.0	10	25
2	13	1.5	4.1	10	347	1810	1550	1280	407	6.0	10	24
3	11	1.6	18	13	1030	1660	1290	1310	390	6.0	10	28
4	19	3.7	12	12	873	1530	1140	1450	359	6.0	10	31
5	18	4.1	41	16	721	1470	1130	1370	316	6.0	10	34
6	3.5	1.9	67	9.9	691	1370	1030	1160	320	7.0	10	39
7	4.5	3.7	47	2.2	756	1250	952	980	435	7.0	10	36
8	3.1	1.8	26	.60	689	1330	912	922	278	7.0	10	42
9	7.2	5.5	28	1.3	797	1130	932	912	224	7.0	10	45
10	3.1	1.8	32	28	1190	918	1070	922	186	7.0	10	43
11	6.8	3.3	25	23	1000	817	1340	907	148	7.0	10	44
12	2.9	10	18	24	823	734	1430	820	111	7.0	10	45
13	7.0	4.1	16	20	847	1080	1300	805	79	7.0	10	45
14	46	7.5	19	20	797	1250	1170	745	42	7.0	10	44
15	3.7	5.8	16	1000	666	1180	1210	641	25	7.0	9.9	45
16	3.7	46	24	3030	631	1360	1150	573	14	8.0	9.9	50
17	14	23	14	1340	2830	1680	956	572	5.0	8.0	9.0	44
18	4.8	3.3	20	721	3950	1370	804	587	5.0	8.0	6.0	40
19	7.2	16	7.4	462	2720	1090	755	660	5.0	8.0	3.7	15
20	7.2	7.8	6.6	324	9130	930	724	789	5.0	8.0	3.5	12
21	21	30	4.3	267	11300	863	685	865	5.0	8.0	3.3	7.9
22	2.4	1.1	3.4	251	8740	875	620	757	5.0	8.0	2.5	6.1
23	1.9	4.1	3.6	274	8800	845	588	634	5.0	8.0	6.0	6.0
24	3.3	28	9.9	264	7050	862	597	530	5.0	8.0	22	6.2
25	4.1	4.1	9.7	239	4680	928	624	515	5.0	8.0	24	12
26	2.7	7.2	11	215	3730	1140	679	582	6.0	9.0	27	14
27	13	17	14	194	3210	1010	792	552	6.0	9.0	13	29
28	2.2	4.3	13	168	2630	1020	820	564	6.0	9.0	30	6.3
29	11	3.3	13	155	2280	1250	959	563	6.0	9.0	28	15
30	9.9	12	20	169	---	1580	1190	539	6.0	9.0	21	18
31	2.2	---	11	265	---	1750	---	487	---	9.0	21	---
TOTAL	265.9	265.1	572.0	9522.10	83182	38132	30189	25263	3845.0	234.0	379.8	851.5
MEAN	8.58	8.84	18.5	307	2868	1230	1006	815	128	7.55	12.3	28.4
MAX	46	46	67	3030	11300	2050	1790	1450	436	9.0	30	50
MIN	1.9	1.1	3.4	.60	274	734	588	487	5.0	6.0	2.5	6.0
AC-FT	527	526	1130	18890	165000	75630	59880	50110	7630	464	753	1690

CAL YR 1967 TOTAL 513370.90 MEAN 1406 MAX 13400 MIN 1.1 AC-FT 1018000
WTR YR 1968 TOTAL 192701.40 MEAN 527 MAX 11300 MIN .60 AC-FT 382200

NOTE--NO GAGE-HEIGHT RECORD JUNE 17 TO AUG. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	7.4	21	151	5700	4340	1500	4270	2460	39	9.4	14
2	24	5.6	14	157	5700	4200	1270	2720	2460	124	9.6	11
3	14	21	12	429	5900	2700	1960	238	1450	333	9.7	16
4	14	18	13	311	6120	1520	3600	237	55	331	9.9	14
5	15	20	96	309	6060	1500	3190	225	36	329	10	11
6	14	23	25	305	5960	1490	3000	221	36	331	10	16
7	11	27	28	299	5900	1490	2750	210	36	195	10	16
8	9.0	23	15	297	5860	1480	3970	200	36	10	10	18
9	6.8	36	12	295	5820	1480	4880	200	36	10	11	16
10	4.2	71	16	275	5760	1460	2300	200	36	10	11	13
11	3.6	95	163	275	5300	1460	579	200	37	10	11	16
12	8.6	117	252	302	6250	1470	504	200	37	10	11	19
13	7.1	163	254	355	6260	1480	474	200	38	10	12	8.1
14	6.5	236	255	1500	6170	1470	442	2390	38	10	6.4	8.4
15	11	220	268	1370	6140	1470	423	5950	38	10	22	28
16	14	217	675	1460	6120	1470	166	5360	39	10	44	71
17	11	175	605	1470	6100	1480	22	5490	39	10	49	68
18	11	162	652	1490	5990	1480	24	5520	39	10	33	66
19	49	139	515	1620	5900	1460	22	5540	39	10	14	82
20	53	175	147	2030	5800	1460	22	5480	39	10	20	70
21	31	182	187	2460	5710	1470	22	5450	39	9.9	16	66
22	8.2	161	347	2490	5620	1470	26	5450	39	9.8	19	66
23	6.2	131	648	2250	5560	1480	24	4150	39	9.8	18	74
24	10	133	668	2630	5460	1470	23	2510	39	9.7	17	70
25	5.3	80	785	5750	5270	583	2550	2500	39	9.6	16	74
26	14	24	678	17300	5140	3.1	4960	2500	39	9.6	16	64
27	3.6	33	643	17700	4910	39	4660	2500	39	9.5	16	77
28	3.6	24	817	12400	4620	60	4570	2490	39	9.5	16	86
29	9.7	20	732	9630	---	60	4480	2520	39	9.4	19	106
30	5.4	20	302	7890	---	60	4320	2450	39	9.3	56	112
31	5.3	---	140	7160	---	898	---	2460	---	9.3	34	---
TOTAL	403.1	2759.0	9985	102360	161100	43953.1	56733	80031	7414	1917.4	566.0	1376.5
MEAN	13.0	92.0	322	3302	5754	1418	1891	2582	247	61.9	18.3	45.9
MAX	53	236	817	17700	6260	4340	4960	5950	2460	333	56	112
MIN	3.6	5.6	12	151	4620	3.1	22	200	36	9.3	6.4	8.1
AC-FT	800	5470	19810	203000	319500	87180	112500	158700	14710	3800	1120	2730

CAL YR 1968 TOTAL 204745.50 MEAN 559 MAX 11300 MIN .60 AC-FT 406100
WTR YR 1969 TOTAL 468598.10 MEAN 1284 MAX 17700 MIN 3.1 AC-FT 929500

NOTE--NO GAGE-HEIGHT RECORD JAN. 10 TO FEB. 3, JUNE 3 TO JULY 2, JULY 7 TO AUG. 12.

11413520 NORTH YUBA RIVER BELOW NEW BULLARDS BAR DAM, NEAR NORTH SAN JUAN, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	4.2	1260	3.9	1790	15	2.7	3.6	2.0	1.5	5.7	3.1
2	54	4.8	740	3.8	1290	23	2.6	3.5	3.6	1.5	4.2	3.1
3	53	4.9	73	3.7	1530	1510	2.5	3.4	3.8	1.5	3.6	3.1
4	42	4.9	70	3.7	6.7	2920	2.5	3.4	2.9	1.4	3.5	3.1
5	42	6.1	69	3.7	1190	1380	2.6	3.3	2.9	1.5	3.5	3.0
6	44	4.7	71	19	1650	488	2.6	3.3	2.6	1.5	3.5	3.0
7	43	5.0	73	4.0	12	8.4	2.6	3.3	2.1	1.5	3.5	3.0
8	27	5.1	76	3.2	10	8.0	2.6	3.3	1.8	2.5	3.4	3.0
9	78	4.7	77	3.2	263	870	2.6	3.3	2.0	4.2	3.3	3.0
10	30	4.6	63	3.9	680	2060	2.6	3.3	2.0	5.2	3.3	2.9
11	31	4.8	46	3.5	1450	2030	2.6	3.3	2.0	5.7	3.1	2.9
12	28	4.8	71	3.9	2020	2050	2.7	3.3	1.8	5.8	3.1	2.9
13	25	4.4	76	9.0	2020	1180	2.7	3.3	1.7	5.9	3.1	2.9
14	30	3.5	79	21	2020	6.1	3.0	3.3	1.8	5.9	3.1	2.9
15	31	5.3	82	9.9	2020	3.3	3.0	3.3	1.8	5.9	3.1	2.9
16	37	5.7	85	4050	1650	2.5	3.0	3.3	1.6	5.9	4.4	2.9
17	28	3.5	87	31000	3780	2.2	3.0	3.3	1.7	6.1	5.5	2.9
18	22	3.8	71	18300	3240	2.2	3.1	3.3	1.6	6.1	5.7	2.9
19	23	2.8	75	15600	1800	2.6	3.6	3.3	1.6	6.1	5.8	2.9
20	27	2.6	87	17100	744	2.7	3.5	3.3	1.5	6.1	5.7	2.9
21	30	2.4	91	36200	728	2.7	3.5	3.3	1.5	6.1	5.4	2.8
22	29	2.3	92	42100	728	2.7	3.5	3.3	1.5	6.1	4.6	2.8
23	30	2.1	109	26100	728	2.7	3.5	3.3	1.4	6.3	4.1	2.8
24	32	180	82	34500	1560	2.7	3.7	3.3	1.4	6.3	3.7	2.8
25	23	630	12	16500	325	2.7	3.7	22	1.3	6.3	3.5	2.8
26	24	1260	9.0	5520	6.7	2.7	3.7	7.8	1.3	6.8	3.4	2.8
27	26	1260	8.7	6320	7.0	2.6	3.7	3.9	1.3	7.6	3.3	2.8
28	24	1260	8.4	1030	9.5	2.4	3.8	2.8	1.6	7.8	3.1	2.8
29	24	1260	7.8	9890	---	2.7	3.8	5.1	1.8	8.0	3.1	2.8
30	14	1260	4.3	10400	---	3.3	3.8	3.6	1.7	8.0	3.1	2.8
31	3.9	---	3.7	3980	---	3.0	---	2.5	---	7.9	3.1	---
TOTAL	1029.9	7207.0	3758.9	278689.4	33257.9	14594.2	92.8	127.6	57.6	159.0	120.5	87.3
MEAN	33.2	240	121	8990	1188	471	3.09	4.12	1.92	5.13	3.89	2.91
MAX	78	1260	1260	42100	3780	2920	3.8	22	3.8	8.0	5.8	3.1
MIN	3.9	2.1	3.7	3.2	6.7	2.2	2.5	2.5	1.3	1.4	3.1	2.8
AC-FT	2040	14300	7460	552800	65970	28950	184	253	114	315	239	173

CAL YR 1969 TOTAL 467446.8 MEAN 1281 MAX 17700 MIN 2.1 AC-FT 927200
WTR YR 1970 TOTAL 339182.1 MEAN 929 MAX 42100 MIN 1.3 AC-FT 672800

11413600 SWEETLAND CREEK NEAR NORTH SAN JUAN, CALIF.

LOCATION.--Lat 39°20'18", long 121°06'58", in NE¼ sec.18, T.17 N., R.8 E., Nevada County, on left bank at culvert on State Highway 49, 2.2 miles southwest of North San Juan.

DRAINAGE AREA.--2.68 sq mi.

PERIOD OF RECORD.--Annual maximums, water years 1963-68. October 1968 to September 1970.

GAGE.--Water-stage recorder, crest-stage gages, and culvert control. Altitude of gage is 1,860 ft (from topographic map). Prior to Oct. 1, 1968, crest-stage gage only at present site and datum.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 5, 1966	61	3.70	-	-
1967	Jan. 21, 1967	336	5.58	-	-
1968	Feb. 20, 1968	202	4.74	-	-
1969	Jan. 26, 1969	302	3.59	Long periods	0
1970	Jan. 21, 1970	318	5.53	do.	0

Period of record: Maximum discharge, 600 cfs Dec. 22, 1964 (gage height, 7.04 ft); no flow for several months in each year.

REMARKS.--Records good. No diversion above station. Rainfall data are available in files of the district office.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.04	3.7	2.8	14	36	.88	1.2	.10			
2	0	.30	2.8	2.6	12	24	1.4	1.0	.10			
3	0	1.5	3.0	2.3	9.2	19	1.9	1.4	.10			
4	0	.54	3.0	2.3	7.8	15	1.4	2.1	.10			
5	0	.27	2.8	2.1	35	13	7.9	1.4	.10			
6	0	.20	2.6	2.1	33	12	5.7	1.0	.09			
7	0	.17	2.3	1.9	15	7.3	4.4	.77	.09			
8	0	.12	2.1	1.9	13	4.2	6.5	.77	.10			
9	0	.10	2.1	1.9	25	4.2	6.1	.77	.10			
10	0	.09	6.4	1.7	19	4.2	5.7	.77	.10			
11	0	.39	5.2	7.1	20	4.8	3.5	.58	.14			
12	0	2.0	3.2	18	28	4.4	1.7	.49	.17			
13	0	.58	3.0	96	16	4.2	1.9	.49	.14			
14	0	.77	6.9	30	21	3.9	2.1	.49	.14			
15	0	1.5	20	9.2	74	5.2	1.9	.49	.12			
16	0	.67	7.8	6.5	32	7.3	1.7	.42	.09			
17	0	.42	3.5	4.8	19	7.8	2.3	.42	.08			
18	0	1.0	2.8	12	19	7.3	3.2	.36	.07			
19	0	.77	2.6	85	15	6.9	3.0	.36	.07			
20	0	.49	2.3	146	15	6.5	2.8	.36	.05			
21	0	.42	2.1	160	14	7.3	2.8	.36	.05			
22	0	.36	1.9	56	14	5.7	2.6	.36	.04			
23	0	.36	2.6	22	19	3.7	7.6	.31	.04			
24	0	.49	11	32	28	2.3	4.2	.27	.03			
25	0	.42	32	71	44	2.1	2.8	.23	0			
26	0	.36	13	88	28	2.1	1.9	.27	0			
27	0	.36	5.2	27	19	1.9	1.5	.23	0			
28	0	.36	6.9	21	55	1.9	1.2	.23	0			
29	.03	1.0	6.5	14	---	1.5	1.4	.20	0			
30	.06	2.8	3.9	13	---	.88	1.2	.17	0			
31	.04	---	3.2	10	---	.88	---	.12	---			---
TOTAL	.13	18.85	176.4	950.2	663.0	227.46	93.18	18.39	2.21	0	0	0
MEAN	.004	.63	5.69	30.7	23.7	7.34	3.11	.59	.074	0	0	0
MAX	.06	2.8	32	160	74	36	7.9	2.1	.17	0	0	0
MIN	0	.04	1.9	1.7	7.8	.88	.88	.12	0	0	0	0
AC-FT	.3	37	350	1880	1320	451	185	36	4.4	0	0	0

WTR YR 1969 TOTAL 2149.82 MEAN 5.89 MAX 160 MIN 0 AC-FT 4260

11413600 SWEETLAND CREEK NEAR NORTH SAN JUAN, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.06	.87	6.9	36	1.5	.62	.02			
2		0	.06	.78	6.6	13	1.5	.54	.02			
3		0	.06	.78	6.2	8.4	1.5	.47	.02			
4		0	.06	.70	6.2	11	1.5	.47	.01			
5		.12	.06	.62	5.8	8.4	1.4	.47	0			
6		.12	.06	.62	5.5	6.6	1.4	.40	0			
7		.06	.06	.62	5.2	8.2	1.4	.47	0			
8		.06	.15	1.2	4.4	51	1.2	.47	0			
9		.05	.15	8.5	4.1	18	1.2	.54	.04			
10		.05	.19	9.4	3.4	31	1.2	.54	.05			
11		.04	.28	5.5	2.6	15	1.2	.47	.04			
12		.04	.34	11	3.9	11	1.2	.47	.03			
13		.04	.40	34	9.0	9.0	1.2	.40	.03			
14		.04	.23	83	7.8	7.2	2.0	.34	.03			
15		.04	.19	23	6.2	6.6	1.6	.23	.03			
16		.05	.15	80	14	5.8	1.4	.19	.02			
17		.05	.12	28	21	5.2	1.4	.15	.01			
18		.05	.15	12	12	4.4	1.0	.12	.01			
19		.05	1.1	30	7.8	3.8	1.0	.12	0			
20		.05	6.4	29	6.2	3.4	.96	.12	0			
21		.05	33	185	5.2	3.4	.96	.10	0			
22		.05	4.4	71	4.4	3.2	.96	.10	0			
23		.05	54	40	3.8	2.9	.87	.08	0			
24		.05	78	57	3.4	2.6	.87	.05	0			
25		.06	18	18	2.9	2.4	.78	.05	0			
26		.06	5.5	16	2.6	2.2	.87	.05	0			
27		.06	2.6	56	2.4	1.9	.96	.05	0			
28		.06	1.8	18	4.7	1.9	.87	.05	0			
29		.06	1.4	12	---	1.9	.78	.04	0			
30		.06	1.2	9.0	---	1.8	.70	.04	0			
31		---	1.0	7.8	---	1.5	---	.03	---			---
TOTAL	0	1.47	211.17	849.39	174.2	288.7	35.38	8.24	.36	0	0	0
MEAN	0	.049	6.81	27.4	6.22	9.31	1.18	.27	.012	0	0	0
MAX	0	.12	78	185	21	51	2.0	.62	.05	0	0	0
MIN	0	0	.06	.62	2.4	1.5	.70	.03	0	0	0	0
AC-FT	0	2.9	419	1680	346	573	70	16	.7	0	0	0

CAL YR 1969 TOTAL 2167.08 MEAN 5.94 MAX 160 MIN 0 AC-FT 4300
WTR YR 1970 TOTAL 1568.91 MEAN 4.30 MAX 185 MIN 0 AC-FT 3110

11414000 SOUTH YUBA RIVER NEAR CISCO, CALIF.

LOCATION.--Lat 39°19'12", long 120°33'38", in SE¼SW¼ sec.19, T.17 N., R.13 E., Nevada County, Tahoe National Forest, on right bank 0.7 mile downstream from Rattlesnake Creek, 1.3 miles west of Cisco Grove, and 1.5 miles northwest of Cisco.

DRAINAGE AREA.--51.8 sq mi.

PERIOD OF RECORD.--April 1942 to September 1970. Prior to October 1949, published as South Fork Yuba River near Cisco.

GAGE.--Water-stage recorder. Altitude of gage is 5,520 ft (from river-profile map). Prior to October 1945, water-stage recorder at site 200 ft upstream at present datum.

AVERAGE DISCHARGE.--28 years, 199 cfs (144,200 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (1,500 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
May 10, 1966	2000	*1,310	6.08	Feb. 20, 1968	0300	*1,670	6.76	June 14, 1969	1930	1,740	6.91
Nov. 29, 1966	0600	1,690	6.76	Jan. 20, 1969	1115	*2,460	7.96	Dec. 21, 1969	1215	5,070	10.87
Mar. 16, 1967	1945	2,140	7.49	May 11, 1969	2015	2,390	7.90	Dec. 24, 1969	0500	1,680	6.79
May 21, 1967	1930	*2,550	8.06	May 17, 1969	2045	2,180	7.60	Jan. 16, 1970	1100	3,830	9.59
June 8, 1967	2100	2,070	7.39	May 23, 1969	2045	2,210	7.64	Jan. 21, 1970	2130	*6,230	11.92
June 18, 1967	1815	2,250	7.64	May 31, 1969	2030	1,990	7.32	May 17, 1970	2100	1,720	6.85

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Nov. 4, 6, 7, 1965	9.0	1969	Oct. 2, 1968	21
1967	Oct. 5, 6, 9-12, 1966	13	1970	Dec. 5, 7, 1969	8.5
1968	Aug. 16, 1968	4.8			

Period of record: Maximum discharge, 18,400 cfs Jan. 31, 1963 (gage height, 19.6 ft, from floodmarks in gage house, 20.6 ft from outside floodmarks), from rating curve extended above 4,600 cfs on basis of slope-area measurement at gage height 15.8 ft; minimum daily, 0.1 cfs Nov. 5-7, 1954.

REMARKS.--Records good. Low flow regulated by Lake Van Norden (capacity, 4,320 acre-ft, 5,260 acre-ft with flashboards). See schematic diagram of Yuba River basin elsewhere in this report.

REVISIONS.--WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	9.4	69	32	33	38	673	722	114	22	26	10
2	23	9.2	65	32	32	36	654	795	98	22	24	10
3	23	9.2	65	31	32	35	594	840	88	17	22	10
4	22	9.0	67	31	34	35	555	840	80	15	21	10
5	22	9.1	63	32	37	34	631	885	73	15	20	10
6	22	9.0	61	50	37	37	661	777	68	15	30	10
7	22	9.0	59	62	45	51	666	808	70	14	31	12
8	22	14	56	65	34	55	628	808	63	14	30	29
9	22	12	53	54	33	67	535	742	67	13	30	29
10	22	10	47	47	32	136	477	1100	60	13	30	32
11	21	10	44	43	36	128	312	777	55	12	30	32
12	21	11	43	40	33	113	269	638	50	12	30	32
13	21	17	43	39	36	222	273	646	45	12	29	32
14	23	51	45	39	36	224	330	606	40	12	29	32
15	26	40	44	40	35	185	453	546	38	12	29	31
16	16	41	43	39	35	130	658	532	35	14	28	31
17	12	216	42	38	35	102	836	515	33	38	28	30
18	12	251	44	38	35	92	662	515	31	38	27	30
19	12	147	45	37	35	97	438	515	29	38	27	30
20	11	130	47	42	35	90	383	508	27	38	25	29
21	11	120	49	36	36	88	414	466	26	37	24	29
22	11	112	42	36	38	92	438	401	25	35	23	27
23	11	114	31	35	41	106	484	343	25	35	20	27
24	10	109	28	34	39	151	638	305	23	33	14	26
25	10	105	29	34	49	196	814	238	22	32	12	25
26	10	102	30	34	38	262	865	224	21	32	10	25
27	10	96	30	33	39	331	690	220	20	31	10	23
28	10	90	31	35	38	405	570	202	20	30	10	22
29	9.8	86	32	33	---	463	638	173	23	29	10	22
30	9.7	80	31	37	---	507	690	150	23	28	10	21
31	9.5	---	31	34	---	577	---	129	---	27	10	---
TOTAL	510.0	2027.9	1409	1212	1018	5085	16929	16966	1392	735	699	718
MEAN	16.5	67.6	45.5	39.1	36.4	164	564	547	46.4	23.7	22.5	23.9
MAX	26	251	69	65	49	577	865	1100	114	38	31	32
MIN	9.5	9.0	28	31	32	34	269	129	20	12	10	10
AC-FT	1010	4020	2790	2400	2020	10090	33580	33650	2760	1460	1390	1420

CAL YR 1965 TOTAL 76985.9 MEAN 211 MAX 1380 MIN 9.0 AC-FT 152700
WTR YR 1966 TOTAL 48700.9 MEAN 133 MAX 1100 MIN 9.0 AC-FT 96600

11414000 SOUTH YUBA RIVER NEAR CISCO, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	14	314	52	180	108	132	72	606	1190	38	46
2	15	14	317	51	134	109	114	90	452	1140	35	41
3	15	14	356	51	116	121	101	131	462	975	34	39
4	14	14	182	52	107	98	102	186	772	831	51	39
5	13	14	395	53	109	86	101	155	1130	782	51	38
6	13	20	350	45	109	88	98	214	1020	698	49	36
7	14	20	204	46	115	104	102	480	1150	602	47	34
8	14	18	152	43	113	121	100	726	1320	515	46	33
9	13	16	131	43	113	140	107	795	1370	434	46	33
10	13	16	141	44	124	134	114	522	1280	438	44	32
11	13	18	145	48	124	108	104	320	1210	407	43	30
12	13	17	126	52	140	92	98	254	1220	380	42	28
13	14	17	126	48	155	89	106	272	1240	365	41	25
14	14	18	117	56	146	90	109	442	1230	323	40	29
15	14	46	109	65	114	91	104	804	1360	290	39	49
16	14	190	110	69	100	1550	92	1150	1520	257	37	51
17	14	63	107	60	95	1440	88	1340	1670	220	36	74
18	14	42	106	57	105	764	98	1260	1700	181	36	76
19	14	63	105	52	107	442	90	1290	1550	131	35	71
20	14	383	110	50	93	305	83	1580	1540	107	34	69
21	14	101	102	82	90	263	78	1830	1560	98	34	68
22	14	67	96	77	93	269	76	1830	1460	90	33	67
23	14	55	92	77	96	269	74	1730	1340	88	33	66
24	14	48	86	67	95	222	74	1700	1400	80	46	64
25	14	43	83	62	87	243	69	1610	1470	70	46	62
26	14	41	78	76	79	246	67	1580	1430	61	58	60
27	14	39	72	148	81	212	70	1520	1330	54	53	54
28	14	645	70	206	95	187	73	1410	1350	48	51	45
29	14	1200	69	570	---	167	68	1280	1350	49	49	42
30	15	332	57	466	---	147	70	1160	1310	45	48	40
31	15	---	53	305	---	141	---	935	---	41	47	---
TOTAL	436	3588	4561	3173	3115	8446	2762	28668	37802	10990	1322	1441
MEAN	14.1	120	147	102	111	272	92.1	925	1260	355	42.6	48.0
MAX	18	1200	395	570	180	1550	132	1830	1700	1190	58	76
MIN	13	14	53	43	79	86	67	72	452	41	33	25
AC-FT	865	7120	9050	6290	6180	16750	5480	56860	74980	21800	2620	2860

CAL YR 1966 TOTAL 53339 MEAN 146 MAX 1200 MIN 10 AC-FT 105800
WTR YR 1967 TOTAL 106304 MEAN 291 MAX 1830 MIN 13 AC-FT 210900

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	32	18	24	50	297	393	775	281	58	31	15
2	55	32	17	23	107	266	256	765	275	56	30	14
3	58	34	18	21	196	278	234	858	248	55	29	14
4	43	33	19	18	119	287	257	818	209	54	28	14
5	42	34	24	18	90	285	278	668	178	53	27	14
6	39	33	19	17	77	214	232	514	156	52	25	19
7	53	18	24	17	71	178	262	473	221	50	24	20
8	52	13	20	16	67	157	306	446	161	47	17	20
9	47	13	21	15	71	134	403	486	154	47	14	20
10	45	12	22	23	66	123	558	519	130	45	16	20
11	42	12	21	18	62	115	631	485	121	40	17	20
12	38	12	22	16	62	108	548	439	111	38	17	20
13	36	12	20	15	64	107	459	390	90	37	17	20
14	36	20	20	24	59	101	494	307	82	35	15	23
15	35	16	20	344	55	95	534	301	76	34	7.0	24
16	35	14	19	261	57	96	443	359	71	32	4.8	24
17	35	13	19	123	242	92	295	413	67	31	12	23
18	35	15	20	86	290	87	247	467	61	29	19	23
19	34	28	19	71	437	83	269	534	56	28	53	23
20	34	26	19	63	1350	95	268	706	52	26	56	24
21	34	25	19	66	1130	133	259	550	49	23	26	24
22	34	19	20	69	672	145	230	370	47	21	23	23
23	34	17	20	73	1180	150	276	290	45	19	21	23
24	33	16	21	73	690	152	334	254	69	17	20	23
25	33	16	23	74	397	153	422	402	40	16	19	23
26	33	15	28	66	367	170	548	410	36	15	19	23
27	32	14	39	60	379	240	601	430	34	27	18	22
28	34	16	42	53	355	300	645	427	33	27	18	22
29	33	21	36	50	307	420	776	396	57	29	18	22
30	33	17	32	62	---	472	809	341	60	31	17	22
31	33	---	26	57	---	475	---	305	---	31	16	---
TOTAL	1199	598	707	1916	9069	6008	12267	14898	3270	1103	673.8	621
MEAN	38.7	19.9	22.8	61.8	313	194	409	481	109	35.6	21.7	20.7
MAX	58	34	42	344	1350	475	809	858	281	58	56	24
MIN	32	12	17	15	50	83	230	254	33	15	4.8	14
AC-FT	2380	1190	1400	3800	17990	11920	24330	29550	6490	2190	1340	1230

CAL YR 1967 TOTAL 100223.0 MEAN 275 MAX 1830 MIN 12 AC-FT 198800
WTR YR 1968 TOTAL 52329.8 MEAN 143 MAX 1350 MIN 4.8 AC-FT 103800

11414000 SOUTH YUBA RIVER NEAR CISCO, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	26	59	43	119	62	560	851	1320	243	26	38
2	21	118	56	43	108	60	457	800	1330	236	25	37
3	26	414	55	43	102	60	286	640	1420	219	25	37
4	42	98	56	53	102	59	274	506	1320	206	24	36
5	42	69	56	62	99	59	335	836	1270	189	23	35
6	41	56	56	67	93	59	241	1260	1210	173	22	34
7	40	46	55	70	90	58	190	1400	1090	160	27	34
8	39	45	57	64	86	64	183	1540	1010	143	47	34
9	38	71	55	57	87	57	195	1690	824	135	46	32
10	38	57	82	55	90	55	208	1700	653	125	43	31
11	38	52	87	52	91	54	335	1800	667	102	32	31
12	57	303	75	52	87	54	468	1710	730	87	31	31
13	61	94	67	87	81	54	467	1570	908	80	30	31
14	62	66	67	125	80	54	384	1380	1070	74	29	30
15	49	62	62	87	78	58	279	1230	1040	69	29	30
16	47	60	63	69	77	67	308	1310	1040	62	29	31
17	45	64	60	63	74	70	455	1540	769	56	29	31
18	42	272	58	66	74	72	620	1530	713	52	29	31
19	40	191	58	890	73	71	589	1330	795	49	29	35
20	38	116	58	2190	71	77	715	1210	700	46	29	58
21	36	96	60	1260	72	73	901	1300	596	43	29	55
22	35	89	53	473	70	72	1000	1470	563	40	38	54
23	34	105	54	286	69	93	951	1570	515	38	42	54
24	33	79	55	218	64	104	670	1520	503	36	43	53
25	32	75	53	357	60	115	530	1410	423	34	42	53
26	31	70	53	783	65	156	415	1330	346	32	41	52
27	30	66	54	345	64	229	416	1400	321	30	41	51
28	29	63	52	222	62	304	566	1230	286	29	40	50
29	30	60	51	163	---	380	762	1300	270	28	38	49
30	33	60	48	140	---	487	817	1410	263	28	38	49
31	29	---	44	124	---	585	---	1480	---	28	39	---
TOTAL	1180	3043	1819	8609	2288	3822	14577	41253	23965	2872	1035	1207
MEAN	38.1	101	58.7	278	81.7	123	486	1331	799	92.6	33.4	40.2
MAX	62	414	87	2190	119	585	1000	1800	1420	243	47	58
MIN	21	26	44	43	60	54	183	506	263	28	22	30
AC-FT	2340	6040	3610	17080	4540	7580	28910	81830	47530	5700	2050	2390

CAL YR 1968 TOTAL 55867.8 MEAN 153 MAX 1350 MIN 4.8 AC-FT 110800
WTR YR 1969 TOTAL 105670.0 MEAN 290 MAX 2190 MIN 21 AC-FT 209600

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	37	10	91	187	156	189	300	614	58	15	23
2	48	37	10	81	170	145	230	461	614	52	17	23
3	46	36	9.5	75	166	116	260	670	566	49	17	21
4	46	36	9.0	69	169	106	273	745	530	46	17	22
5	45	41	8.5	68	167	103	348	850	469	43	17	23
6	44	44	9.0	64	152	104	424	770	406	40	17	22
7	42	42	8.5	64	147	116	424	610	378	38	17	22
8	39	41	9.0	70	162	115	403	554	329	36	17	22
9	37	43	9.5	275	167	102	426	654	514	35	17	22
10	38	44	9.5	299	158	98	530	622	382	33	32	22
11	33	47	10	138	160	88	517	374	281	32	26	22
12	32	53	12	176	210	91	455	302	228	31	25	21
13	31	54	36	212	189	142	407	357	205	30	25	21
14	32	46	35	494	162	310	295	610	218	28	24	21
15	55	42	28	221	147	301	219	825	189	27	24	21
16	127	66	23	2500	132	242	161	1080	175	26	25	21
17	84	42	20	1200	134	250	147	1180	167	25	24	21
18	56	31	21	542	123	180	150	1120	181	24	25	44
19	49	28	326	657	112	148	180	945	193	23	24	46
20	48	26	1560	1060	107	142	166	775	180	22	24	46
21	52	26	2490	3930	106	165	150	745	164	21	23	53
22	51	23	461	4140	108	206	145	845	153	21	23	52
23	47	19	321	1750	109	273	137	875	133	21	23	51
24	43	16	1400	1440	111	345	133	860	100	19	23	50
25	43	15	1020	622	115	364	181	905	89	19	23	50
26	41	15	350	440	129	323	252	925	82	18	23	49
27	40	14	200	569	139	264	181	800	104	17	23	48
28	39	13	136	349	165	263	148	654	84	17	23	46
29	39	12	123	280	---	309	140	618	85	16	23	45
30	38	11	110	245	---	268	194	646	65	16	23	43
31	37	---	99	208	---	205	---	634	---	15	23	---
TOTAL	1450	1000	8873.5	22329	4103	6040	7865	22311	7878	898	682	993
MEAN	46.8	33.3	286	720	147	195	262	720	263	29.0	22.0	33.1
MAX	127	66	2490	4140	210	364	530	1180	614	58	32	53
MIN	31	11	8.5	64	106	88	133	300	65	15	15	21
AC-FT	2880	1980	17600	44290	8140	11980	15600	44250	15630	1780	1350	1970

CAL YR 1969 TOTAL 110951.5 MEAN 304 MAX 2490 MIN 8.5 AC-FT 220100
WTR YR 1970 TOTAL 84422.5 MEAN 231 MAX 4140 MIN 8.5 AC-FT 167500

11414100 FORDYCE CREEK BELOW FORDYCE DAM, NEAR CISCO, CALIF.

LOCATION.--Lat 39°22'45", long 120°29'52", in NW¼SE¼ sec.34, T.18 N., R.13 E., Nevada County, Tahoe National Forest, on right bank 850 ft downstream from Fordyce Dam and 5.3 miles northeast of Cisco.

DRAINAGE AREA.--31.7 sq mi.

PERIOD OF RECORD.--June 1966 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 6,250 ft (from topographic map).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for June 1966 to September 1970 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	June 16, 1966	281	3.52	July 7-12, 1966	30
1967	June 18, 1967	1,610	4.92	Nov. 5-14, 1966	6.0
1968	June 2, 1968	258	3.35	Jan. 8, 9, 1968	5.3
1969	June 11, 1969	1,180	4.61	Jan. 5-8, 1969	6.0
1970	May 17, 18, 1970	766	4.25	Oct. 3 to Nov. 4, 1969	6.9

Period of record: Maximum discharge, 1,610 cfs June 18, 1967 (gage height, 4.92 ft), from rating curve extended above 750 cfs; minimum daily, 5.3 cfs Jan. 8, 9, 1968.

REMARKS.--Flow regulated by Fordyce Lake (usable capacity, 46,700 acre-ft). See schematic diagram of Yuba River basin elsewhere in this report.

COOPERATION.--Records collected by Pacific Gas & Electric Co., under general supervision of the Geological Survey, in connection with a Federal Power Commission project.

DISCHARGE, IN CUBIC FEET PER SECOND, JUNE TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										35	214	196
2										34	211	196
3										32	211	196
4										32	211	194
5										31	211	191
6										31	211	189
7										30	211	189
8										30	211	186
9									41	30	211	186
10									42	30	211	186
11									46	30	208	186
12									46	30	208	186
13									41	91	208	186
14									38	155	208	183
15									40	157	208	183
16									76	157	205	183
17									35	155	205	183
18									35	155	205	183
19									34	155	205	181
20									34	152	202	181
21									34	146	202	181
22									34	168	202	181
23									32	219	202	178
24									32	219	199	178
25									32	219	199	178
26									32	219	199	176
27									36	216	199	176
28									40	216	199	176
29									38	216	199	173
30									36	214	199	173
31										214	199	---
TOTAL										3818	6373	5514
MEAN										123	206	184
MAX										219	214	196
MIN										30	199	173
AC-FT										7570	12640	10940

11414100 FORDYCE CREEK BELOW FORDYCE DAM, NEAR CISCO, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	170	10	10	13	16	18	20	21	506	1370	179	325
2	168	9.6	11	13	16	18	20	22	386	1230	179	330
3	165	9.2	11	13	16	18	20	22	305	1110	179	325
4	165	7.0	11	13	16	18	20	22	300	900	179	320
5	165	6.0	13	13	16	18	21	22	398	796	176	325
6	165	6.0	12	13	16	18	21	22	440	630	176	325
7	165	6.0	11	13	16	18	21	23	285	581	176	320
8	162	6.0	11	13	16	120	21	24	155	542	216	330
9	162	6.0	11	13	16	200	21	24	152	518	264	340
10	160	6.0	11	13	16	197	22	23	165	344	272	335
11	160	6.0	11	13	16	197	22	23	185	320	290	330
12	158	6.0	11	13	16	197	22	23	280	340	290	330
13	158	6.0	12	13	16	197	22	24	422	345	290	335
14	158	6.0	12	14	16	197	22	25	623	350	285	335
15	155	7.0	12	14	16	197	22	26	804	320	285	330
16	155	8.9	12	14	16	204	22	27	960	295	285	330
17	152	6.7	12	14	16	197	22	28	1260	228	285	325
18	152	6.4	12	14	16	197	22	28	1340	152	285	320
19	152	7.4	12	14	16	200	22	29	870	138	285	320
20	152	10	12	14	16	99	22	31	780	138	295	320
21	150	7.4	104	14	16	20	22	31	1180	134	320	315
22	148	7.2	204	14	17	20	21	33	1230	125	315	315
23	148	7.2	200	14	17	20	21	34	1050	117	310	310
24	212	7.2	197	14	17	20	21	35	1040	77	315	305
25	305	7.2	197	14	17	20	21	36	1250	54	315	300
26	300	7.2	194	14	17	20	21	38	1370	137	315	295
27	295	7.2	191	15	17	20	21	136	1300	182	315	290
28	285	11	105	14	17	20	21	380	1230	182	320	305
29	280	12	13	18	---	20	21	506	1310	182	315	300
30	272	9.6	13	16	---	20	21	581	1380	182	310	295
31	153	---	13	16	---	20	---	574	---	182	310	---
TOTAL	5747	225.4	1661	430	455	2745	638	2873	22956	12201	8331	9580
MEAN	185	7.51	53.6	13.9	16.3	88.5	21.3	92.7	765	394	269	319
MAX	305	12	204	18	17	204	22	581	1380	1370	320	340
MIN	148	6.0	10	13	16	18	20	21	152	54	176	290
AC-FT	11400	447	3290	853	902	5440	1270	5700	45530	24200	16520	19000

WTR YR 1967 TOTAL 67842.4 MEAN 186 MAX 1380 MIN 6.0 AC-FT 134600

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	296	5.7	5.5	5.5	6.9	14	17	25	234	250	230	185
2	291	6.0	5.5	5.5	8.0	14	17	25	250	246	254	181
3	287	6.0	5.5	5.5	8.3	14	17	25	246	250	250	178
4	283	6.0	5.7	5.5	8.0	14	17	25	201	250	250	175
5	274	6.0	6.4	5.5	7.7	14	18	25	163	250	246	175
6	107	6.2	6.2	5.5	7.4	15	18	25	135	246	246	172
7	13	6.2	6.0	5.5	7.4	15	18	26	148	246	242	169
8	13	6.2	6.0	5.3	7.4	15	18	26	137	246	242	166
9	163	6.2	6.0	5.3	7.4	15	18	27	127	242	238	166
10	254	6.2	6.0	5.5	7.4	15	19	27	109	246	234	163
11	250	6.2	6.0	5.5	7.4	15	20	28	102	242	234	160
12	246	6.2	6.0	5.5	7.4	15	20	28	102	242	230	157
13	242	6.2	6.0	5.7	7.4	15	20	28	70	238	230	154
14	238	6.2	6.2	7.4	7.7	15	20	29	61	238	227	151
15	79	6.2	6.2	10	7.7	15	20	29	67	238	227	148
16	6.0	6.2	6.2	6.9	7.7	15	21	29	69	238	227	148
17	5.7	6.2	6.2	6.7	9.2	15	21	29	69	234	223	89
18	5.5	6.0	6.2	6.7	8.9	15	21	29	71	234	219	51
19	5.5	6.0	6.2	6.7	10	16	21	30	67	234	219	51
20	5.5	6.0	6.2	6.4	13	16	21	31	62	230	216	22
21	5.5	6.0	6.2	6.4	13	16	21	31	113	230	216	6.9
22	5.5	5.7	6.4	6.7	12	16	21	31	181	227	212	6.9
23	5.5	5.7	6.4	6.7	16	16	21	32	181	227	212	6.9
24	5.5	5.7	6.9	6.7	13	16	21	33	223	227	208	6.7
25	5.5	5.7	6.9	6.7	13	16	22	34	258	223	205	6.7
26	5.5	5.7	6.9	6.7	13	16	22	35	258	223	201	6.7
27	5.5	5.7	6.9	6.9	13	16	22	36	258	219	201	6.7
28	5.5	5.7	6.7	6.9	13	17	22	37	254	219	198	6.7
29	5.5	5.7	6.0	6.9	14	17	23	37	254	219	191	6.7
30	5.5	5.7	5.7	6.9	---	17	23	43	254	219	188	6.9
31	5.5	---	5.5	6.9	---	17	---	129	---	216	185	---
TOTAL	3124.7	179.4	190.7	196.5	282.3	477	600	1024	4724	7289	6901	2928.8
MEAN	101	5.98	6.15	6.34	9.73	15.4	20.0	33.0	157	235	223	97.6
MAX	296	6.2	6.9	10	16	17	23	129	258	250	254	185
MIN	5.5	5.7	5.5	5.3	6.9	14	17	25	61	216	185	6.7
AC-FT	6200	356	378	390	560	946	1190	2030	9370	14460	13690	5810

CAL YR 1967 TOTAL 63703.8 MEAN 175 MAX 1380 MIN 5.5 AC-FT 126400
WTR YR 1968 TOTAL 27917.4 MEAN 76.3 MAX 296 MIN 5.3 AC-FT 55370

11414100 FORDYCE CREEK BELOW FORDYCE DAM, NEAR CISCO, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	6.9	10	102	10	11	113	24	978	185	426	318
2	6.7	8.3	10	102	10	11	113	24	920	202	426	314
3	6.7	9.5	10	100	10	11	113	24	983	201	420	309
4	6.7	8.3	10	56	10	11	66	25	1010	188	414	305
5	6.7	8.0	10	6.0	10	11	14	27	983	178	414	300
6	6.7	8.0	10	6.0	10	11	14	27	1080	166	409	296
7	6.7	8.0	10	6.0	10	11	14	28	1010	155	409	287
8	6.7	8.0	10	6.0	10	11	14	29	893	148	404	283
9	6.7	8.0	10	6.2	10	11	15	29	745	169	404	278
10	6.7	8.3	10	6.4	10	11	15	31	595	175	398	274
11	6.7	9.2	10	6.2	10	11	16	32	388	181	393	266
12	7.2	9.8	10	6.2	10	11	16	33	167	188	393	109
13	7.2	9.2	10	6.2	10	11	16	80	116	181	388	27
14	7.2	8.9	10	6.2	10	11	16	337	118	80	388	27
15	6.9	9.2	10	12	10	11	16	478	255	46	382	144
16	6.9	9.2	10	15	10	11	17	554	363	43	377	205
17	6.9	9.2	71	10	10	11	17	705	271	43	377	201
18	6.9	11	122	8.9	10	11	18	854	302	43	372	198
19	7.2	9.8	120	8.6	10	11	18	845	519	43	367	195
20	6.9	9.8	120	8.9	10	11	19	752	524	43	362	191
21	6.9	9.8	118	9.8	10	11	20	697	460	43	362	188
22	6.9	9.8	118	12	10	11	21	752	425	120	362	181
23	6.9	9.8	117	9.5	11	12	21	888	438	175	357	178
24	6.9	10	117	9.5	11	12	21	980	405	188	352	175
25	6.9	10	113	9.5	11	70	21	909	345	188	347	72
26	6.9	9.8	111	9.5	11	113	21	884	219	188	342	20
27	6.9	10	111	9.8	11	113	22	887	141	185	342	20
28	6.9	10	109	9.8	11	111	22	865	159	332	332	20
29	7.2	10	107	9.8	---	111	23	810	175	437	332	19
30	7.2	10	105	9.8	---	113	23	884	166	431	328	18
31	6.9	---	104	10	---	115	---	942	---	426	323	---
TOTAL	213.5	275.8	1823	593.8	286	1012	875	14436	15153	5371	11702	5418
MEAN	6.89	9.19	58.8	19.2	10.2	32.6	29.2	466	505	173	377	181
MAX	7.2	11	122	102	11	115	113	980	1080	437	426	318
MIN	6.7	6.9	10	6.0	10	11	14	24	116	43	323	18
AC-FT	423	547	3620	1180	567	2010	1740	28630	30060	10650	23210	10750

CAL YR 1968 TOTAL 26734.9 MEAN 73.0 MAX 258 MIN 5.3 AC-FT 53030
WTR YR 1969 TOTAL 57159.1 MEAN 157 MAX 1080 MIN 6.0 AC-FT 113400

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	6.9	83	18	37	39	41	45	429	115	274	370
2	13	6.9	115	18	37	39	41	45	462	135	274	366
3	8.9	6.9	115	19	37	38	41	46	462	111	270	366
4	8.9	6.9	113	19	37	39	41	46	457	97	270	362
5	8.9	7.2	111	19	37	39	41	47	438	97	270	297
6	8.9	7.2	59	19	37	39	42	48	388	97	270	357
7	8.9	7.2	10	19	37	39	42	50	375	64	267	349
8	8.9	7.2	9.5	19	37	39	41	63	345	49	267	349
9	8.9	7.2	9.5	21	37	39	41	181	316	49	267	345
10	8.5	7.4	9.5	20	38	39	42	289	293	49	263	341
11	8.5	7.4	9.5	20	38	39	42	235	228	49	263	336
12	8.5	7.4	9.5	20	38	39	43	115	206	49	263	332
13	8.5	7.4	9.5	20	38	39	43	56	193	72	259	328
14	8.2	7.4	9.5	21	38	40	43	62	187	90	259	324
15	8.5	7.4	9.5	20	38	40	44	97	161	90	259	320
16	8.5	7.7	9.5	30	38	40	44	345	131	90	259	316
17	8.2	7.4	9.2	23	38	40	44	593	148	90	256	140
18	8.2	7.2	9.2	24	38	39	44	650	175	88	256	13
19	8.2	7.2	13	27	38	39	44	554	209	88	256	13
20	7.9	7.2	16	28	38	39	44	397	222	178	252	13
21	7.7	7.2	20	41	38	39	44	293	228	285	252	13
22	7.7	7.2	16	37	39	40	44	406	228	285	252	13
23	7.4	7.2	18	40	39	40	44	492	206	281	249	13
24	7.2	7.2	21	37	39	40	44	528	181	281	249	13
25	7.2	7.2	20	37	39	40	44	554	153	281	245	13
26	7.2	7.2	18	37	39	40	44	604	143	278	238	13
27	7.2	7.2	18	38	39	40	44	549	140	278	324	13
28	7.2	27	18	37	39	41	45	406	133	278	383	13
29	7.2	41	18	37	---	41	45	383	97	278	383	13
30	6.9	37	18	37	---	41	45	401	78	278	379	13
31	6.9	---	18	37	---	41	---	419	---	274	375	---
TOTAL	265.8	300.1	941.9	839	1062	1226	1291	8999	7412	4824	8603	5767
MEAN	8.57	10.0	30.4	27.1	37.9	39.5	43.0	290	247	156	278	192
MAX	19	41	115	41	39	41	45	650	462	285	383	370
MIN	6.9	6.9	9.2	18	37	38	41	45	78	49	238	13
AC-FT	527	595	1870	1660	2110	2430	2560	17850	14700	9570	17060	11440

CAL YR 1969 TOTAL 56354.6 MEAN 154 MAX 1080 MIN 6.0 AC-FT 111800
WTR YR 1970 TOTAL 41530.8 MEAN 114 MAX 650 MIN 6.9 AC-FT 82380

11414140 LAKE SPAULDING NEAR EMIGRANT GAP, CALIF.

LOCATION.--Lat 39°19'35", long 120°38'32", in SE¼NE¼ sec.20, T.17 N., R.12 E., Nevada County, on left abutment of Spaulding Dam on South Yuba River, 2.5 miles northeast of Emigrant Gap.

DRAINAGE AREA.--118 sq mi.

PERIOD OF RECORD.--October 1964 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 4,809.6 ft above mean sea level (levels by Pacific Gas & Electric Co.). Prior to July 1968, nonrecording gage at present site and datum.

EXTREMES.--Maximums and minimums (contents in acre-feet, elevation in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum		
Wtr yr	Date	Contents	G.H.	Date	Contents	G.H.
1966	Oct. 26, 1965	74,100	204.1	Mar. 25, 1966	12,400	79.1
1967	July 13, 1967	75,100	205.5	Mar. 8, 1967	9,660	70.1
1968	June 22, 23, 1968	67,100	193.7	Jan. 31, 1968	6,600	58.9
1969	June 26, 1969	74,600	204.8	Mar. 21, 1969	4,970	51.9
1970	July 11, 1970	74,425	204.5	Dec. 17, 1969	9,980	71.17

Period of record: Maximum contents, 75,100 acre-ft July 13, 1967 (gage height, 205.5 ft); minimum, 4,970 acre-ft Mar. 21, 1969 (gage height, 51.9 ft).

REMARKS.--Lake is formed by three concrete-arch dams with spillway on the middle arc. Storage began in 1913. Capacity, 74,773 acre-ft between gage heights 0.6 (bottom of outlet) and 205.0 ft (top of radial gates). Released water flows through Spaulding powerhouses Nos. 1 and 2. Flow through powerhouse No. 1 is transported out of Yuba River basin by Drum Canal to Bear River basin. See schematic diagrams of Yuba River basin and Bear River basins elsewhere in this report.

COOPERATION.--Records collected by Pacific Gas & Electric Co., under general supervision of the Geological Survey, in connection with a Federal Power Commission project. Contents rounded to Geological Survey standards prior to water year 1970.

Capacity table, water years 1966-70 (gage height, in feet, and contents, in acre-feet)

50	4,578	100	19,541	200	71,329
70	9,632	150	41,545	206	75,473

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73700	73600	54500	30100	28000	20900	18500	44800	72200	70600	65900	61900
2	73700	73600	53800	29500	27800	20900	20100	45800	72500	70300	65500	61500
3	73700	73600	52800	28800	27800	20700	21400	46900	72700	70000	65300	61700
4	73700	73600	51900	28100	27600	20100	22600	48800	72500	69800	64900	61800
5	73700	73700	51000	27400	27400	19900	23700	50800	72100	69500	64700	61900
6	73700	73800	50000	28700	27300	19400	25100	52800	72200	69200	64600	61900
7	73800	73500	49000	28100	27100	18800	26500	54600	72500	68900	64700	61500
8	73700	73000	48100	28100	26700	18400	27800	56800	72600	68600	64600	61400
9	73700	72400	47100	28100	26200	18100	29000	58600	72400	68300	64300	61200
10	73700	71600	46500	27800	25300	18700	30300	60700	71800	68000	64000	61200
11	73700	70700	45700	27800	25100	19000	31200	62300	71900	67800	63800	61300
12	73700	69600	45300	28000	24500	18800	31400	62900	72000	67400	63600	61300
13	73700	68600	44200	28100	24300	19200	31500	63600	72000	67100	63600	62000
14	73700	67900	43200	28100	24100	19900	31600	64700	71900	67000	63900	62700
15	73700	67100	42600	28200	23700	20200	32000	65400	71800	66800	63900	63300
16	73700	66100	42000	28300	23100	20200	33300	66800	71800	66700	63800	63900
17	73700	65400	41000	28400	22600	19300	34300	66900	71900	66600	63500	64500
18	73700	66300	40200	28400	21800	18300	36000	68400	71900	66500	63300	65000
19	73700	65600	39800	28400	21800	17300	36600	68200	71900	66500	63100	65500
20	73700	64700	38900	28400	21800	16300	36800	68800	71900	66400	63200	66100
21	73700	63900	38200	28400	21800	15700	37000	69200	71900	66100	63400	66500
22	73600	62900	37500	28400	21800	14600	37300	69600	71900	65400	63400	66400
23	73700	62000	36700	28400	21900	13300	37700	69700	71900	65400	63200	65900
24	73900	61000	35900	28400	21700	13000	38200	69700	71800	65500	63000	65900
25	74000	60000	35400	28200	21400	12400	39400	69800	71800	65600	62700	65800
26	74100	59200	34600	28100	21400	12900	41000	69400	71800	65600	62500	65500
27	74100	58400	33900	28100	21300	13200	42100	69900	71700	65700	62600	65300
28	73700	57200	33100	28100	21000	14800	42600	70500	71400	65800	62700	65200
29	73700	56100	32200	28100	---	15500	43200	71200	71100	65900	62700	64800
30	73700	55300	31400	28100	---	16200	43900	71700	70900	65900	62400	64700
31	73700	---	30700	28100	---	17300	---	71900	---	66000	62200	---
MAX	74100	73800	54500	30100	28000	20900	43900	71900	72700	70600	65900	66500
MIN	73600	55300	30700	27400	21000	12400	18500	44800	70900	65400	62200	61200
(†)	5013.1	4984.4	4937.1	4931.2	4913.5	4903.4	4964.1	5000.4	5009.0	5001.6	4995.6	4999.6
(‡)	0	-18400	-24600	-2600	-7100	-3700	+26600	+28000	-1000	-4900	-3800	+2500

CAL YR 1965 MAX 74770 MIN 30700 ‡ -35200
WTR YR 1966 MAX 74100 MIN 12400 ‡ -9000

† GAGE HEIGHT, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11414140 LAKE SPAULDING NEAR EMIGRANT GAP, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64400	43400	38300	33200	26400	12800	46800	23700	66500	74200	65400	56000
2	64100	42600	39600	33100	26000	12400	45900	23700	67500	73900	64800	55800
3	63400	41900	40900	33000	25100	12300	45100	23700	67700	73800	64300	55600
4	62700	41200	40700	32900	24400	11700	44400	23700	68600	73600	63800	55500
5	62000	40400	41900	32900	23700	11200	43600	23700	70900	74100	63200	55300
6	61200	39800	42800	32800	23100	10700	43200	23700	71900	74100	62600	55100
7	60500	39200	42700	31900	22900	10200	42200	23700	71800	73700	62000	54900
8	59600	38500	42300	31000	23000	9660	41500	22600	71400	74500	61500	54700
9	58700	37700	41500	30100	22900	10500	40800	24700	71600	74600	61100	54500
10	57900	37000	40900	29200	22900	11500	40200	26200	71500	74500	60700	54300
11	57100	36300	40300	28200	22900	12200	39600	26300	71400	74600	60400	54000
12	56200	35600	39500	27300	23000	12800	38800	26100	71400	74800	60000	53600
13	55300	34800	38700	26500	23100	13400	38200	26000	71700	75100	59700	53200
14	54500	34100	38000	25500	22800	14500	37600	26000	71800	75000	59400	52900
15	53500	33600	37200	24700	22400	14700	36900	27400	71900	74800	59100	52500
16	52800	34000	36300	23800	21400	19300	36000	29900	71800	74600	58900	53500
17	51900	33700	35500	23000	20700	27800	35200	33600	71800	74400	59300	54500
18	51000	33200	34600	22100	19700	32200	34500	36800	71800	74000	58900	54100
19	50200	32600	33900	21600	18800	34600	33600	40100	71600	73500	58500	53800
20	49300	34000	32900	21400	18000	37500	32500	43300	71500	72900	58200	53600
21	48600	34300	32000	22900	17100	38100	31300	47800	74100	72300	57800	53300
22	47700	33900	31600	24000	16200	39800	30500	53000	74400	71700	57500	52900
23	46800	33500	31300	23700	15500	41500	29600	58300	73600	71000	57300	52500
24	45900	33000	32200	22600	14700	42900	28700	62000	73700	70300	57200	52200
25	45300	32400	32500	22600	14600	44200	27800	65900	74300	69500	57000	51800
26	44800	31800	32700	22200	14300	45500	27000	66000	74600	68700	56900	51400
27	44700	31300	32900	22000	13800	46600	26200	66700	74300	68100	56800	51100
28	44500	31500	33300	21400	13200	47600	25300	66800	74100	67500	56700	50700
29	44300	37000	33400	23300	---	48000	24500	66700	74500	67000	56500	50200
30	44200	38100	33300	25300	---	48700	23700	66700	74400	66500	56300	49700
31	44000	---	33200	26500	---	47500	---	66600	---	65900	56200	---
MAX	64400	43400	42800	33200	26400	48700	46800	66800	74600	75100	65400	56000
MIN	44000	31300	31300	21400	13200	9660	23700	22600	66500	65900	56200	49700
(†)	154.7	143.2	133.0	117.8	81.6	161.1	110.9	192.9	204.5	191.8	176.3	165.1
(‡)	-20700	-5900	-4900	-6700	-13300	+34300	-23800	+42900	+7800	-8500	-9700	-6500

CAL YR 1966 MAX 72700 MIN 12400 ‡ +2500
WTR YR 1967 MAX 75100 MIN 9660 ‡ -15000

† GAGE HEIGHT, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49300	31200	15900	9050	7110	32900	19500	33700	60400	66100	64500	55700
2	49100	30400	15700	8540	7260	32400	19300	35300	61300	65800	64100	55700
3	49200	29400	15400	8350	9420	31900	18800	37000	62200	65600	64300	55700
4	49200	28600	13300	8350	10300	31400	18500	38800	63200	65800	64500	55000
5	49100	27700	14700	8430	10600	31000	18200	40400	63600	66000	64500	55400
6	49000	26900	13600	8540	10000	30400	17800	41300	64100	66200	64100	56100
7	48400	26000	13000	8630	9370	30000	17400	45000	64700	66500	63400	56800
8	47700	25200	13000	8740	8850	29200	17100	42400	65300	66600	63100	57500
9	47000	24300	13100	8910	8740	29100	17200	43000	65700	66300	62600	58000
10	46900	23500	13200	8800	8460	28500	18000	43800	66100	66100	62600	58600
11	46700	23300	13000	8800	8460	27900	19200	44700	66400	65900	62600	59300
12	46600	23500	12100	8800	8770	27200	20400	45300	66600	65900	62400	60500
13	46500	23100	11200	8850	9110	26300	20900	45900	66700	65800	61800	59700
14	46800	22200	10600	9050	9340	25400	21300	46300	66800	65700	61300	59500
15	47000	21400	9800	11700	9480	24500	22100	46700	66900	65600	60700	60200
16	46800	20500	9630	13200	9690	23600	22700	47300	66900	65400	60300	59100
17	45500	19600	9630	13200	10800	22900	22900	48000	66900	65300	60400	58400
18	44400	19500	9630	12600	12800	22100	22900	48900	66900	65100	60400	57500
19	43400	19600	9420	11900	14100	21300	22900	49900	66900	65000	60300	56500
20	42200	19500	9220	12000	20600	20300	22900	51400	66900	65200	60000	55500
21	41200	19100	9050	12200	25700	19500	22900	52600	66900	65400	59500	54400
22	40000	18300	8960	12100	27800	18700	22800	53500	67100	65400	58900	53400
23	38900	18300	9020	11400	29200	18300	23100	54000	67100	65300	58300	52300
24	37700	18000	9080	10700	33600	17400	23800	54400	67000	65100	58300	51100
25	36700	18000	9080	10000	33800	16900	24700	55000	66300	64800	58300	50000
26	35900	18100	9420	9020	33800	17000	25800	55900	66100	64700	58100	49000
27	35100	17900	10200	8490	33700	16900	27200	56700	66700	64800	57200	47900
28	35100	17400	10600	8020	33600	17000	28600	57500	66200	65100	56700	46800
29	33900	17200	10600	7640	33200	17400	30300	58300	66400	65200	56200	45700
30	32900	16300	9980	7000	---	18300	32000	59000	66400	65000	55600	44600
31	32000	---	9250	6600	---	19200	---	59600	---	64800	55600	---
MAX	49300	31200	15900	13200	33800	32900	32000	59600	67100	66600	64500	60500
MIN	32000	16300	8960	6600	7110	16900	17100	33700	60400	64700	55600	44600
(†)	130.5	90.8	68.7	58.9	133.0	99.0	130.5	181.8	192.5	190.1	175.2	155.8
(‡)	-17700	-15700	-7050	-2650	+26600	-14000	+12800	+27600	+6800	-1600	-9200	-11000

CAL YR 1967 MAX 75100 MIN 8960 ‡ -23950
WTR YR 1968 MAX 67100 MIN 6600 ‡ -5100

† GAGE HEIGHT, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11414140 LAKE SPAULDING NEAR EMIGRANT GAP, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43500	12700	9760	9620	40900	17100	12300	29900	71900	73500	60200	58800
2	42400	13100	9900	9620	40100	16400	13300	31100	71900	73500	60800	59000
3	41300	15100	9890	9560	39300	15400	13100	31800	72600	73400	60800	58600
4	40000	15000	9880	9820	38500	14500	13100	32000	72700	73400	60800	58300
5	38900	14600	9840	10100	37800	13600	13400	34200	72700	73300	60700	58000
6	37800	14000	9760	9710	37100	12600	13200	37400	72400	73100	60800	57700
7	36800	13400	9850	9600	36200	11600	12700	38200	72200	72900	60700	57500
8	35700	12900	9960	9540	35300	10600	12000	45000	72000	72300	60700	58400
9	34400	12700	9960	9370	34400	9630	11600	51500	71800	72000	60700	59600
10	33600	12500	10300	9250	33600	8980	11200	54000	71700	71700	60700	60700
11	32600	12100	10200	9290	32900	8830	11400	58400	71500	71300	60700	61900
12	31700	13200	9740	9340	32100	8790	12100	58400	72400	70800	60500	62700
13	31100	12900	9430	10400	31500	8800	12800	62600	72100	70100	60400	63200
14	30300	12500	9430	11400	30400	7460	13000	65900	73000	69400	60300	63600
15	29500	12000	9430	11100	29600	7300	12800	66700	73200	68800	60200	64300
16	28600	11600	9600	10300	28800	6490	12700	66800	73200	68200	60000	65200
17	27400	11200	9590	9690	27900	5570	13300	67000	72200	67300	60000	66200
18	26500	11500	9450	9820	27000	5060	14700	67500	72000	66700	59900	67100
19	25500	11700	9520	16100	26000	5090	15700	67400	72500	65800	59700	67500
20	24600	11400	9480	28800	25100	5050	17100	67100	73200	64900	59600	66900
21	23700	11000	9480	35600	24200	4970	19200	66900	73400	63900	59300	66500
22	22700	10600	9480	36800	23300	5020	21600	67100	73400	63300	59100	65900
23	21700	10300	9430	36900	22400	5270	23700	67500	73800	62900	59000	65200
24	20500	9900	9230	36900	21600	5400	24500	67500	74300	62400	58800	64700
25	19500	9510	9420	39000	20800	5620	24800	67500	74400	61900	58600	63600
26	18400	9370	9560	42900	19900	6070	25100	67300	74600	61200	58400	63100
27	17400	9330	9600	43500	19000	6440	25000	67300	74100	60600	58300	62000
28	16500	9420	9570	43400	18100	7070	25800	68000	73700	60000	58100	61000
29	15500	9530	9560	43000	---	8000	27000	69400	73500	60100	58000	60000
30	14500	9640	9560	42400	---	9380	28400	70400	73700	60200	58300	58900
31	13500	---	9580	41700	---	11000	---	71700	---	60100	58600	---
MAX	43500	15100	10300	43500	40900	17100	28400	71700	74600	73500	60800	67500
MIN	13500	9330	9230	9250	18100	4970	11200	29900	71500	60000	58000	57500
(†)	82.5	70.0	69.8	150.3	95.9	74.7	122.4	200.5	203.4	182.7	180.3	180.7
(‡)	-31100	-3860	-60	+32100	-23600	-7100	+17400	+43300	+2000	-13600	-1500	+300

CAL YR 1968 MAX 67100 MIN 6600 ‡ +330
WTR YR 1969 MAX 74600 MIN 4970 ‡ +14300

† GAGE HEIGHT, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57900	28788	15320	35506	62297	40057	20211	15219	58326	70450	69044	59368
2	56811	27885	14917	34694	61730	39348	19587	15489	59738	70518	68844	58999
3	55852	27502	14485	33891	60854	38345	19173	16067	61042	70788	68778	58693
4	54843	26577	14155	32912	59923	37404	18847	17141	62171	71262	68711	58387
5	53842	26117	13926	32222	59122	36717	18739	18415	63120	71670	68643	58021
6	53025	25664	14221	31357	58143	35699	18811	19246	63821	72284	68444	58021
7	52100	25337	14287	30459	57294	34837	19028	19806	64526	72695	68378	57718
8	51239	24851	13893	29530	56451	34032	19246	20211	64913	73246	68179	57415
9	50217	24408	13375	30192	55673	33098	19624	21218	65624	73592	67981	56992
10	49202	23889	12830	30906	54843	32267	19916	22362	66209	74008	67849	56511
11	48253	23572	12220	30593	54018	31357	20284	22827	66470	74425	67585	56211
12	47257	23022	11683	30682	53667	30414	20433	22944	66405	74355	67322	56631
13	46272	22556	11372	31402	53142	29750	20470	22905	66274	74146	66993	57839
14	45296	22055	10911	33891	52446	29530	20358	23493	66470	73730	66862	58815
15	44705	21596	10337	34174	51640	29311	20100	24689	66470	73246	66535	59861
16	44705	21256	10187	45242	50784	28875	19733	26911	66535	72833	66470	60979
17	43798	20730	9980	49427	50047	28270	19355	29136	66535	72216	66144	61793
18	43058	20174	10128	50443	49090	27629	19064	32959	66862	71738	65819	62234
19	42116	19624	11966	51755	48308	26911	18883	35554	67388	71126	65300	62486
20	41286	18992	18094	54135	47257	26117	18559	37404	68179	70653	64784	62930
21	40414	18451	27885	69377	46163	25460	18344	38996	68778	70450	64205	63375
22	39398	17916	28572	68047	45242	24851	17952	40669	69377	70383	63630	63757
23	38395	17386	29355	67849	44331	24448	17597	42953	69778	70316	63057	64270
24	37305	16861	35362	66601	43269	24368	17176	45081	69979	70181	62360	64655
25	36425	16239	39046	65494	42796	24248	16792	47533	70181	70047	61856	64977
26	34932	15897	39348	65042	41752	23889	16618	50047	70316	69912	61167	64398
27	33985	15897	38996	65559	40772	23533	16273	52215	70383	69778	60668	63757
28	32959	15624	38445	64977	40006	22788	15862	53375	70518	69644	60543	63057
29	31947	15590	37849	64526	---	22362	15455	54430	70585	69444	60233	62423
30	30906	15624	37011	63694	---	21825	15253	55733	70585	69310	59985	61793
31	29882	---	36376	62930	---	21331	---	56992	---	69110	59676	---
MAX	57900	28788	39348	69377	62297	40057	20470	56992	70585	74425	69044	64977
MIN	29882	15590	9980	29530	40006	21331	15253	15219	58326	69110	59676	56211
(†)	125.70	88.90	139.70	187.20	147.00	104.80	87.80	177.60	198.90	196.70	182.00	185.40
(‡)	-29018	-14258	+20752	+26554	-22924	-18675	-6078	+41739	+13593	-1475	-9434	+2117

CAL YR 1969 MAX 74600 MIN 4970 ‡ +26796
WTR YR 1970 MAX 74425 MIN 9980 ‡ +2893

† GAGE HEIGHT, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11414170 DRUM CANAL AT INTAKE, NEAR EMIGRANT GAP, CALIF.

LOCATION.--Lat 39°19'28", long 120°38'37", in NE¼SE¼ sec.20, T.17 N., R.12 E., Nevada County, Tahoe National Forest, in Spaulding No. 1 powerhouse, 2.4 miles northeast of Emigrant Gap.

PERIOD OF RECORD.--October 1964 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 4,880 ft *(from topographic map)*.

EXTREMES.--Period of record: Maximum daily discharge, 838 cfs Apr. 11, 16, May 14, 1969; no flow for several days in most years.

REMARKS.--Canal diverts from Spaulding No. 1 powerhouse at Lake Spaulding Dam. Water is used for irrigation and power in the Bear River basin. See schematic diagrams of Yuba River basin and Bear River basins elsewhere in this report.

COOPERATION.--Water-stage-recorder graphs and 32 discharge measurements for the water years 1966-67 furnished by Pacific Gas & Electric Co., in connection with a Federal Power Commission project. Records for the water years 1968-70 collected by Pacific Gas & Electric Co., under general supervision of the Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	619	630	555	206	736	705	206	320	439	498
2		0	707	630	548	270	736	705	206	320	498	487
3		0	737	632	546	316	738	526	213	320	498	320
4		0	740	630	543	316	740	396	205	320	496	320
5		0	740	630	542	316	738	340	203	320	466	320
6		104	738	631	539	314	740	255	205	320	316	450
7		309	737	635	537	313	737	205	205	320	316	498
8		344	737	637	537	313	737	205	205	320	392	500
9		372	737	637	496	314	716	368	571	320	488	444
10		244	739	637	408	353	685	498	447	320	496	319
11		393	736	571	341	405	682	498	207	320	494	319
12		397	737	526	206	407	683	498	207	320	494	288
13		438	737	531	206	408	715	498	317	320	334	2.2
14		436	736	529	285	430	737	500	269	320	319	19
15		507	737	531	320	482	736	500	294	320	364	22
16		554	737	532	316	562	738	499	206	320	500	30
17		504	738	531	316	729	738	499	206	319	499	67
18		528	736	534	231	731	738	498	206	319	499	67
19		689	737	534	119	734	739	554	206	319	498	66
20		590	736	534	119	735	739	583	206	323	353	87
21		591	736	534	119	735	739	585	206	385	316	223
22		600	735	534	119	736	739	582	206	322	338	489
23		617	735	534	259	741	737	681	206	320	498	488
24		660	736	534	316	740	740	714	206	320	498	486
25		641	737	534	228	617	740	717	206	320	498	488
26		599	739	531	119	500	739	612	206	320	498	493
27		599	737	531	119	501	737	289	276	320	437	488
28		622	737	552	184	617	738	209	311	320	320	502
29		657	735	581	---	738	730	209	281	320	320	510
30		613	697	577	---	735	711	255	320	320	454	510
31		---	630	578	---	739	---	277	---	320	499	---
TOTAL	0	12608	22552	17702	9173	16053	21898	14460	7414	9987	13435	9800.2
MEAN	0	420	727	571	328	518	730	466	247	322	433	327
MAX	0	689	740	637	555	741	740	717	571	385	500	510
MIN	0	0	619	526	119	206	682	205	203	319	316	2.2
AC-FT	0	25010	44730	35110	18190	31840	43430	28680	14710	19810	26650	19440

CAL YR 1965 TOTAL 143449.00 MEAN 393 MAX 740 MIN 0 AC-FT 284500
WTR YR 1966 TOTAL 155082.20 MEAN 425 MAX 741 MIN 0 AC-FT 307600

11414170 DRUM CANAL AT INTAKE, NEAR EMIGRANT GAP, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	507	504	501	305	695	549	719	708	711	721	689	612
2	507	504	602	305	696	541	721	711	713	722	689	612
3	508	501	685	306	720	537	718	712	712	722	691	612
4	508	499	711	308	733	554	716	712	713	724	693	611
5	479	499	680	310	734	552	716	710	719	724	690	609
6	508	499	695	384	537	553	713	704	718	724	691	612
7	503	499	700	736	420	517	720	692	717	728	690	612
8	508	499	706	737	390	349	724	707	716	728	691	611
9	504	499	730	737	407	317	724	709	713	727	690	611
10	506	498	736	737	403	405	722	710	710	727	690	661
11	504	495	728	737	407	250	720	709	707	727	691	701
12	505	499	736	737	407	253	724	706	703	725	690	701
13	504	499	732	736	568	326	724	708	698	722	691	701
14	507	499	736	736	731	361	722	706	703	722	692	699
15	506	499	737	736	737	382	720	703	701	723	715	437
16	506	498	737	737	735	393	720	708	696	722	450	0
17	509	498	737	737	735	148	719	708	696	722	571	304
18	509	498	735	692	735	0	718	706	696	718	696	702
19	482	498	737	486	733	0	720	704	692	718	694	704
20	508	478	737	405	733	0	717	703	689	720	694	704
21	448	492	737	177	733	0	717	705	687	720	696	706
22	509	498	522	203	734	0	717	703	685	720	612	705
23	509	499	305	480	735	0	715	702	689	722	613	706
24	509	499	305	703	632	0	717	694	694	724	618	706
25	490	499	305	702	380	0	713	707	698	724	606	706
26	508	498	305	699	380	0	712	704	701	721	595	706
27	509	499	303	642	471	0	711	705	703	727	595	709
28	508	499	303	700	549	0	710	703	714	708	551	706
29	508	498	271	684	---	110	710	707	719	691	595	705
30	505	500	305	678	---	523	709	712	722	689	594	705
31	504	---	305	693	---	722	---	711	---	689	604	---
TOTAL	15585	14943	18064	17965	16870	8342	21528	21889	21135	22301	20167	18876
MEAN	503	498	583	580	603	269	718	706	705	719	651	629
MAX	509	504	737	737	737	722	724	712	722	728	715	709
MIN	448	478	271	177	380	0	709	692	685	689	450	0
AC-FT	30910	29640	35830	35630	33460	16550	42700	43420	41920	44230	40000	37440

CAL YR 1966 TOTAL 168514.2 MEAN 462 MAX 741 MIN 2.2 AC-FT 334200
WTR YR 1967 TOTAL 217665.0 MEAN 596 MAX 737 MIN 0 AC-FT 431700

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	702	596	456	348	168	742	750	351	303	535	647	301
2	569	599	303	224	134	746	741	351	301	600	578	301
3	488	653	303	210	151	743	745	353	301	570	303	590
4	484	597	428	172	152	743	747	349	303	303	303	672
5	488	597	494	155	445	742	747	349	300	473	618	33
6	494	598	492	155	675	590	746	440	295	300	708	5.8
7	496	592	489	155	710	549	748	481	304	298	709	5.8
8	496	593	436	156	712	555	746	482	304	537	709	41
9	499	595	197	158	634	558	625	449	304	600	556	83
10	500	526	197	248	372	556	571	395	304	600	397	7.0
11	501	104	505	156	105	557	575	395	304	568	397	7.0
12	502	104	594	155	4.1	621	576	401	304	494	654	99
13	412	445	597	155	12	729	578	397	304	492	710	545
14	298	594	602	155	0	741	579	398	304	492	708	356
15	296	594	533	309	0	741	576	343	304	492	709	356
16	394	594	200	398	0	741	572	298	304	492	468	636
17	501	528	200	576	0	742	565	298	304	493	404	735
18	500	178	327	718	0	741	564	301	304	491	404	732
19	503	179	309	592	0	741	564	303	304	438	627	735
20	508	422	303	201	25	741	566	298	303	304	708	738
21	505	502	260	203	496	741	572	295	303	304	712	728
22	503	450	190	582	590	740	544	293	303	450	710	714
23	555	200	180	717	634	738	319	293	303	486	614	716
24	593	361	182	698	697	740	251	293	303	487	397	712
25	635	179	182	715	729	624	252	295	303	493	395	712
26	596	179	185	639	732	454	257	295	304	448	639	707
27	599	412	186	487	737	488	251	296	304	300	707	706
28	226	491	299	416	734	481	249	298	304	301	706	710
29	598	489	495	399	734	482	317	300	535	447	708	712
30	600	491	492	303	---	482	351	301	595	495	650	718
31	598	---	491	287	---	605	---	301	---	498	307	---
TOTAL	15639	13442	11107	10842	10382.1	20194	16244	10692	9615	14281	17862	14113.6
MEAN	504	448	358	350	358	651	541	345	321	461	576	470
MAX	702	653	602	718	737	746	750	482	595	600	712	738
MIN	226	104	180	155	0	454	249	293	295	298	303	5.8
AC-FT	31020	26660	22030	21510	20590	40050	32220	21210	19070	28330	35430	27990

CAL YR 1967 TOTAL 209261.00 MEAN 573 MAX 737 MIN 0 AC-FT 415100
WTR YR 1968 TOTAL 164413.70 MEAN 449 MAX 750 MIN 0 AC-FT 326100

11414170 DRUM CANAL AT INTAKE, NEAR EMIGRANT GAP, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	710	575	222	411	694	701	784	835	829	731	732	509
2	700	223	219	411	697	698	824	833	830	735	732	676
3	689	220	217	389	697	703	822	830	832	731	732	739
4	698	441	217	317	695	701	823	831	832	729	734	745
5	700	512	309	439	695	700	823	832	830	726	732	742
6	701	508	299	545	698	702	819	833	826	718	735	742
7	699	512	223	482	703	699	826	832	825	713	742	739
8	695	475	221	457	697	696	826	829	825	715	748	3.7
9	696	357	289	388	700	692	825	829	827	719	748	1.1
10	698	356	321	341	701	553	834	829	828	719	748	1.1
11	697	358	515	292	704	356	838	831	828	716	748	1.1
12	691	481	561	294	700	299	837	830	829	716	747	1.1
13	688	520	470	335	699	266	837	837	830	716	745	1.1
14	689	516	318	445	699	525	835	838	832	716	747	1.1
15	688	515	318	615	702	699	835	834	831	716	745	1.1
16	689	518	318	730	702	699	838	831	828	715	742	1.1
17	691	513	373	624	702	697	809	832	827	712	745	1.1
18	685	510	414	319	697	571	818	829	828	722	750	1.0
19	689	506	410	257	701	368	821	830	832	725	748	293
20	694	493	410	237	699	402	819	828	829	725	750	757
21	698	495	410	467	687	399	821	818	828	728	748	748
22	699	501	410	632	697	362	822	825	831	731	747	751
23	698	500	410	692	687	350	828	826	831	731	748	752
24	696	490	425	696	690	390	812	828	831	731	748	749
25	681	472	605	641	702	456	826	826	831	734	745	735
26	689	343	514	541	699	591	829	829	832	735	744	754
27	691	290	445	611	698	706	831	828	833	735	745	753
28	694	221	412	641	703	707	833	828	835	734	744	752
29	691	219	412	642	---	704	831	831	799	729	654	754
30	691	222	412	675	---	703	836	832	734	734	509	743
31	675	---	406	679	---	705	---	829	---	735	507	---
TOTAL	21490	12862	11505	15245	19545	17800	24762	25733	24763	22472	22489	13447.6
MEAN	693	429	371	492	698	574	825	830	825	725	725	448
MAX	710	575	605	730	704	707	838	838	835	735	750	757
MIN	675	219	217	237	687	266	784	818	734	712	507	1.0
AC-FT	42630	25510	22820	30240	38770	35310	49120	51040	49120	44570	44610	26670

CAL YR 1968 TOTAL 170082.70 MEAN 465 MAX 750 MIN 0 AC-FT 337400
WTR YR 1969 TOTAL 232113.60 MEAN 636 MAX 838 MIN 1.0 AC-FT 460400

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	733	502	446	790	809	503	801	678	723	387	541	729
2	731	495	520	790	812	780	804	678	730	388	541	727
3	726	501	521	789	808	779	761	685	741	177	520	726
4	729	502	523	787	809	798	736	695	740	56	503	729
5	729	497	433	774	809	717	741	709	738	57	516	729
6	729	508	212	792	812	802	763	723	741	57	533	727
7	730	512	213	790	811	796	744	727	740	52	533	730
8	724	515	434	789	812	787	721	721	740	12	537	736
9	724	513	516	747	809	801	686	723	736	12	545	734
10	724	515	515	703	808	799	724	721	738	12	569	731
11	723	516	520	710	811	790	719	717	737	12	569	731
12	726	515	513	712	811	799	721	719	663	146	569	698
13	724	525	517	688	807	801	734	707	550	174	569	3.7
14	727	526	516	640	812	801	737	723	554	491	569	1.4
15	724	520	520	673	808	801	736	723	555	473	568	.91
16	714	523	412	620	809	798	731	720	558	505	571	0
17	719	532	172	629	805	801	723	721	453	502	569	0
18	720	542	200	660	792	796	710	714	379	551	573	0
19	724	536	409	766	790	793	706	716	343	555	707	0
20	726	531	651	802	793	787	716	710	252	559	729	0
21	729	526	515	645	807	782	721	714	255	537	716	0
22	731	520	671	674	809	774	720	714	350	537	727	0
23	729	513	677	767	814	771	717	717	377	537	723	0
24	727	508	641	798	812	764	709	716	377	537	720	0
25	730	503	688	807	801	760	698	716	378	537	726	0
26	726	425	709	807	799	760	693	719	379	537	723	0
27	630	226	771	805	796	777	689	719	380	537	724	0
28	501	226	770	799	796	808	685	720	381	539	724	0
29	497	226	786	802	---	808	682	714	383	540	724	396
30	501	226	795	809	---	804	679	712	386	541	726	531
31	505	---	796	811	---	766	---	717	---	541	731	---
TOTAL	21512	14225	16582	23175	22571	24103	21707	22108	16057	11098	19295	9660.01
MEAN	694	474	535	748	806	778	724	713	535	358	622	322
MAX	733	542	796	811	814	808	804	727	741	559	731	736
MIN	497	226	172	620	790	503	679	678	252	12	503	0
AC-FT	42670	28220	32890	45970	44770	47810	43060	43850	31850	22010	38270	19160

CAL YR 1969 TOTAL 238575.60 MEAN 654 MAX 838 MIN 1.0 AC-FT 473200
WTR YR 1970 TOTAL 222093.01 MEAN 608 MAX 814 MIN 0 AC-FT 440500

11414190 DRUM CANAL ABOVE DRUM FOREBAY, NEAR BLUE CANYON, CALIF.

LOCATION.--Lat 39°15'50", long 120°43'47", in NE¼SW¼ sec.10, T.16 N., R.11 E., Placer County, on right bank 1.2 miles west of Blue Canyon and 1.5 miles upstream from Drum Forebay.

PERIOD OF RECORD.--October 1964 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 4,800 ft (from topographic map).

AVERAGE DISCHARGE.--6 years, 524 cfs (379,600 acre-ft per year).

EXTREMES.--Period of record: Maximum daily discharge, 766 cfs Apr. 6-8, 1966; no flow at times in most years.

REMARKS.--No gage-height record Nov. 1-30, 1965. Flow represents water diverted from South Yuba River through Spaulding No. 1 powerplant, plus diversion from North Fork American River basin by way of Lake Valley Canal (see station 11426190). This water enters the Bear River at Drum Forebay. See schematic diagrams of Yuba River basin and Bear River basin elsewhere in this report.

COOPERATION.--Water-stage-recorder graphs and 33 discharge measurements for the water years 1966-67 furnished by Pacific Gas & Electric Co., in connection with a Federal Power Commission project. Records for the water years 1968-70 collected by Pacific Gas & Electric Co., under general supervision of the Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		27	610	646	596	213	755	734	202	324	456	520
2		27	642	646	584	262	755	726	202	324	518	511
3		27	646	648	584	321	758	556	217	323	518	323
4		27	625	652	584	323	762	421	203	321	516	323
5		27	617	657	584	323	762	359	203	321	474	323
6		152	621	650	580	323	766	275	203	321	324	446
7		396	621	655	574	326	766	229	203	319	324	522
8		439	636	655	576	324	766	231	203	319	435	522
9		476	642	655	576	332	755	379	547	319	508	474
10		318	642	655	572	378	720	524	452	319	516	323
11		504	646	608	572	448	707	518	208	315	518	323
12		513	646	564	570	448	707	518	208	315	478	336
13		566	650	568	568	456	722	520	318	315	326	0
14		563	650	570	523	472	741	520	269	317	324	0
15		678	655	570	324	524	739	520	296	317	438	0
16		763	657	570	321	579	739	520	211	317	520	0
17		677	661	570	321	728	741	520	216	317	524	0
18		722	707	570	249	741	736	514	216	315	522	0
19		722	716	570	123	739	741	562	216	314	481	0
20		622	720	570	123	739	739	592	216	305	328	0
21		623	724	570	123	736	739	594	218	389	328	151
22		632	726	572	123	739	739	592	218	317	447	508
23		649	728	572	256	741	730	669	218	317	526	508
24		692	730	572	323	743	736	701	218	317	524	506
25		673	732	572	251	670	734	703	218	317	524	510
26		631	732	570	121	518	747	609	218	324	481	520
27		631	734	570	121	546	764	299	274	330	324	508
28		655	720	580	181	617	764	205	365	344	324	524
29		690	625	619	---	751	751	205	313	330	440	534
30		646	625	615	---	746	739	242	326	332	520	532
31		---	648	617	---	753	---	271	---	332	520	---
TOTAL	0	14768	20734	18678	11003	16559	22320	14828	7595	10006	14006	9747
MEAN	0	492	669	603	393	534	744	478	253	323	452	325
MAX	0	763	734	657	596	753	766	734	547	389	526	534
MIN	0	27	610	564	121	213	707	205	202	305	324	0
AC-FT	0	29290	41130	37050	21820	32840	44270	29410	15060	19850	27780	19330

CAL YR 1965 TOTAL 98633.00 MEAN 270 MAX 763 MIN 0 AC-FT 195600
WTR YR 1966 TOTAL 160244.00 MEAN 439 MAX 766 MIN 0 AC-FT 317800

11414190 DRUM CANAL ABOVE DRUM FOREBAY, NEAR BLUE CANYON, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	532	532	518	294	674	548	701	703	718	719	732	652
2	534	530	615	294	671	538	703	715	716	720	735	652
3	538	532	661	294	694	532	701	720	713	720	737	650
4	540	532	686	296	716	548	702	718	710	722	737	650
5	488	532	671	297	716	548	699	720	716	723	735	648
6	538	534	684	337	562	548	684	714	712	725	736	655
7	528	530	680	705	429	520	703	706	710	728	735	652
8	532	528	678	703	385	339	708	693	709	729	735	650
9	526	534	705	703	404	307	709	688	709	728	735	650
10	528	532	718	707	406	395	711	701	708	728	737	692
11	526	530	709	703	412	106	712	721	709	728	737	732
12	530	534	716	705	413	101	717	723	713	727	735	730
13	530	534	709	703	433	151	719	727	710	727	736	730
14	532	536	713	705	711	182	713	694	713	727	735	730
15	532	534	716	705	709	206	705	684	714	729	711	462
16	534	530	716	705	711	278	704	705	715	729	442	40
17	536	528	716	705	709	205	705	688	716	730	647	234
18	536	526	716	672	709	30	704	705	717	729	729	722
19	511	528	711	480	701	21	705	722	717	729	729	724
20	528	520	711	420	705	7.8	702	716	718	730	729	726
21	476	502	713	230	705	4.0	700	709	714	730	729	726
22	534	502	512	213	705	4.8	702	706	715	729	655	724
23	534	502	297	446	707	8.7	701	711	714	729	657	726
24	532	502	297	682	628	9.4	701	711	716	732	660	726
25	514	500	297	678	374	10	698	715	717	732	651	726
26	532	498	296	680	372	8.7	700	714	716	714	640	728
27	532	500	296	603	458	6.0	703	712	714	732	640	730
28	522	514	296	686	548	6.9	703	712	718	734	599	730
29	526	516	270	716	---	94	701	717	720	734	628	730
30	528	506	294	686	---	478	702	716	721	734	631	732
31	530	---	294	680	---	703	---	718	---	734	646	---
TOTAL	16339	15658	17611	17433	16367	7444.3	21118	22004	21428	22561	21420	19659
MEAN	527	522	568	562	585	240	704	710	714	728	691	655
MAX	540	536	718	716	716	703	719	727	721	734	737	732
MIN	476	498	270	213	372	4.0	684	684	708	714	442	40
AC-FT	32410	31060	34930	34580	32460	14770	41890	43640	42500	44750	42490	38990

CAL YR 1966 TOTAL 174350.00 MEAN 478 MAX 766 MIN 0 AC-FT 345800
WTR YR 1967 TOTAL 219042.30 MEAN 600 MAX 737 MIN 4.0 AC-FT 434500

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	600	474	376	193	707	721	370	338	560	658	325
2	3.5	602	294	226	132	712	715	385	332	636	699	325
3	.82	569	292	212	153	708	721	392	331	594	322	607
4	.33	600	409	181	152	708	728	389	329	326	325	671
5	.24	596	491	160	439	706	731	392	321	333	603	28
6	.97	598	490	160	572	591	729	488	318	336	715	.46
7	2.5	598	488	160	688	543	733	541	318	325	714	.40
8	2.5	610	454	162	682	551	735	533	321	549	714	.37
9	2.5	612	190	162	626	556	641	497	321	633	589	.33
10	2.5	573	192	248	373	551	587	431	321	632	429	.33
11	2.5	128	466	162	128	551	590	433	320	611	441	.32
12	2.5	128	577	159	12	606	594	435	318	542	641	89
13	2.5	425	577	160	22	701	595	443	313	541	712	517
14	2.5	610	577	165	13	711	597	447	313	540	498	337
15	2.5	610	577	332	12	712	597	388	313	540	716	343
16	75	614	579	427	14	714	596	334	313	539	508	589
17	516	587	579	561	40	713	586	336	312	538	441	693
18	516	198	450	697	26	712	588	341	313	540	443	690
19	518	202	298	614	41	714	589	345	313	490	635	703
20	528	411	298	198	66	714	591	341	312	332	708	710
21	520	524	265	199	521	715	596	341	311	331	712	716
22	518	504	192	553	600	716	575	340	310	478	711	715
23	571	217	181	699	638	716	336	337	310	533	632	717
24	616	382	181	679	674	717	261	336	309	533	429	709
25	606	198	182	695	703	626	262	337	308	541	429	707
26	602	198	185	629	703	402	267	336	316	492	634	698
27	606	398	189	494	708	399	261	336	341	322	709	694
28	239	504	295	427	704	96	260	337	341	322	710	699
29	604	500	500	398	701	1.3	324	340	341	477	711	698
30	604	486	502	298	---	4.4	361	344	341	536	666	706
31	604	---	500	283	---	326	---	345	---	541	331	---
TOTAL	8274.16	13782	11924	10876	10336	17899.7	16467	11990	9618	15243	18185	13688.21
MEAN	267	459	385	351	356	577	549	387	321	492	587	456
MAX	616	614	579	699	708	717	735	541	341	636	716	717
MIN	.24	128	181	159	12	1.3	260	334	308	322	322	.32
AC-FT	16410	27340	23650	21570	20500	35500	32660	23780	19080	30230	36070	27150

CAL YR 1967 TOTAL 203414.46 MEAN 557 MAX 737 MIN .24 AC-FT 403500
WTR YR 1968 TOTAL 158283.07 MEAN 432 MAX 735 MIN .24 AC-FT 314000

11414190 DRUM CANAL ABOVE DRUM FOREBAY, NEAR BLUE CANYON, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	704	620	205	383	684	677	715	745	735	730	733	497
2	704	235	199	383	684	676	699	740	731	731	733	662
3	689	231	196	368	682	677	685	735	736	732	732	734
4	704	440	244	289	680	677	688	734	737	733	731	741
5	703	523	282	398	682	677	699	736	732	732	731	740
6	703	522	283	523	684	677	685	742	731	730	732	738
7	703	523	203	466	683	676	691	743	729	729	735	728
8	699	492	199	433	681	673	714	745	730	732	737	28
9	704	362	262	367	683	671	721	748	734	735	737	.55
10	704	364	304	317	680	540	745	744	734	734	737	.52
11	711	369	494	266	681	331	745	743	734	735	737	.54
12	714	483	541	265	685	268	748	737	735	739	734	.49
13	711	526	463	334	677	240	744	740	733	737	733	.44
14	710	520	293	432	677	486	740	740	735	737	736	.44
15	702	523	297	589	679	679	738	731	734	735	734	.46
16	700	523	294	721	680	680	741	730	730	734	733	.38
17	711	522	344	633	680	681	726	740	729	731	736	.13
18	704	522	389	298	672	564	728	738	732	736	738	.02
19	704	519	385	340	683	339	730	741	739	739	739	222
20	711	489	384	362	680	376	731	739	733	737	738	738
21	720	504	384	554	662	374	740	740	732	739	738	730
22	717	509	385	638	675	339	729	739	734	741	735	738
23	714	509	387	680	665	325	719	731	734	740	738	736
24	712	501	399	681	666	365	710	734	737	738	739	730
25	695	486	595	665	678	437	716	732	737	736	738	719
26	703	352	499	597	675	567	724	731	734	735	740	736
27	702	299	424	609	671	696	728	731	737	736	737	737
28	708	221	384	637	680	701	733	725	739	736	737	734
29	707	220	383	639	---	701	734	733	733	734	662	740
30	711	217	383	663	---	700	742	740	730	734	497	737
31	695	---	379	668	---	702	---	736	---	733	496	---
TOTAL	21879	13126	10863	15198	18989	17172	21688	22863	22010	22780	22253	13168.97
MEAN	706	438	350	490	678	554	723	738	734	735	718	439
MAX	720	620	595	721	685	702	748	748	739	741	740	741
MIN	689	217	196	265	662	240	685	725	729	729	496	.02
AC-FT	43400	26040	21550	30150	37660	34060	43020	45350	43660	45180	44140	26120

CAL YR 1968 TOTAL 170170.90 MEAN 465 MAX 735 MIN .30 AC-FT 337500
WTR YR 1969 TOTAL 221989.97 MEAN 608 MAX 748 MIN .02 AC-FT 440300

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	737	510	439	731	704	456	737	670	716	380	559	733
2	742	504	530	733	708	714	731	672	714	380	551	731
3	735	506	530	731	708	721	723	674	723	243	520	731
4	737	512	532	729	714	718	718	689	721	93	524	733
5	740	510	454	716	714	328	725	710	725	93	541	731
6	740	512	243	735	721	32	727	716	725	93	549	731
7	740	520	243	731	716	32	706	721	725	68	551	735
8	735	518	417	731	721	431	683	718	729	41	551	737
9	735	516	514	727	718	721	633	723	691	41	575	733
10	735	518	504	689	714	718	674	725	725	26	579	727
11	729	520	506	700	716	712	654	721	723	67	579	721
12	737	518	498	702	708	729	656	716	668	182	577	323
13	737	530	504	700	708	729	695	702	537	423	579	41
14	737	539	502	683	727	727	710	721	541	464	575	41
15	733	528	506	672	723	729	708	716	541	530	575	41
16	716	532	409	676	725	733	708	712	543	526	575	41
17	716	539	187	662	706	731	693	712	476	551	571	14
18	721	549	209	660	714	727	651	714	373	579	624	0
19	725	547	388	679	721	725	645	714	367	577	710	0
20	727	541	647	660	706	727	691	718	256	563	700	0
21	716	537	534	685	704	729	706	718	256	557	721	0
22	712	539	645	679	718	731	702	721	346	559	718	0
23	714	532	689	700	727	729	697	716	365	559	718	0
24	721	528	668	662	725	725	685	714	375	559	723	0
25	733	528	700	689	729	744	672	721	376	555	723	0
26	727	462	687	710	723	750	668	718	376	559	721	627
27	647	261	704	712	718	735	666	721	378	559	723	716
28	510	261	702	718	725	737	674	723	378	559	721	727
29	508	258	723	714	---	744	676	716	378	561	723	624
30	508	259	718	710	---	742	668	710	378	559	733	561
31	510	---	737	708	---	710	---	721	---	559	735	---
TOTAL	21660	14634	16269	21734	20061	20216	20682	22063	15825	12065	19524	11799
MEAN	699	488	525	701	716	652	689	712	528	389	630	393
MAX	742	549	737	735	729	750	737	725	729	579	735	737
MIN	508	258	187	660	704	32	633	670	256	26	520	0
AC-FT	42960	29030	32270	43110	39790	40100	41020	43760	31390	23930	38730	23400

CAL YR 1969 TOTAL 228684.90 MEAN 627 MAX 748 MIN 0 AC-FT 453600
WTR YR 1970 TOTAL 216532.00 MEAN 593 MAX 750 MIN 0 AC-FT 429500

11414200 SOUTH YUBA CANAL NEAR EMIGRANT GAP, CALIF.

LOCATION.--Lat 39°18'45", long 120°39'45", in SE¼NE¼ sec.30, T.17 N., R.12 E., Nevada County, on left bank of concrete flume, 400 ft downstream from Bowman Lake road and 2.5 miles northeast of Emigrant Gap.

PERIOD OF RECORD.--October 1964 to September 1970.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 4,640 ft (from topographic map).

AVERAGE DISCHARGE.--6 years, 110 cfs (79,700 acre-ft per year).

EXTREMES.--Period of record: Maximum daily discharge, 165 cfs Aug. 3, 1965; no flow Apr. 20-22, 1966.

REMARKS.--Canal diverts from South Yuba River below Lake Spaulding. Water is diverted to Deer Creek powerhouse where it enters Deer Creek. See schematic diagrams of Yuba River basin and Bear River basin elsewhere in this report.

COOPERATION.--Water-stage-recorder graphs and 23 discharge measurements for the water years 1966-67 furnished by Pacific Gas & Electric Co., in connection with a Federal Power Commission project. Records for the water years 1968-70 collected by Pacific Gas & Electric Co., under general supervision of the Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	160	160	154	98	86	32	98	107	108	114	115
2	149	160	158	153	88	86	31	99	107	108	114	114
3	149	160	160	153	76	73	30	97	108	108	114	114
4	149	153	161	150	76	60	12	94	108	108	114	114
5	155	159	160	152	81	60	3.9	95	108	108	114	114
6	158	158	158	153	98	60	3.9	101	108	109	114	115
7	158	157	160	153	86	60	3.7	110	108	109	114	115
8	158	157	159	153	65	60	3.7	111	109	111	114	115
9	158	159	158	153	62	60	3.7	111	103	112	117	115
10	158	157	158	152	62	60	3.9	110	108	112	122	115
11	158	156	157	129	62	59	3.9	105	110	112	124	116
12	158	159	156	119	62	59	3.9	101	110	111	124	132
13	158	159	158	138	62	60	3.7	103	110	113	123	159
14	159	157	160	138	61	55	3.7	104	114	113	122	159
15	159	158	159	138	60	53	3.7	104	113	112	122	159
16	159	159	159	138	60	84	3.7	105	107	112	122	159
17	159	160	158	138	61	55	3.7	87	113	112	122	159
18	159	154	157	139	61	47	3.7	89	113	113	121	160
19	159	149	155	139	84	73	2.2	85	113	113	121	160
20	159	155	156	139	75	60	0	107	113	114	120	160
21	159	158	158	139	61	47	0	111	111	113	120	150
22	160	158	158	139	61	46	0	114	113	113	120	109
23	160	156	158	138	62	45	19	139	113	113	120	104
24	160	154	157	137	84	46	43	159	112	114	120	104
25	160	153	156	138	88	46	21	158	111	114	120	104
26	160	157	154	139	74	46	30	132	113	114	120	105
27	159	160	154	119	59	46	79	110	113	114	120	53
28	159	159	154	74	58	46	91	109	109	114	120	51
29	159	157	153	74	---	46	92	109	108	114	120	95
30	160	159	155	107	---	46	98	108	108	114	120	99
31	160	---	155	78	---	38	---	107	---	114	117	---
TOTAL	4885	4717	4879	4163	1987	1768	633.0	3372	3301	3469	3689	3643
MEAN	158	157	157	134	71.0	57.0	21.1	109	110	112	119	121
MAX	160	160	161	154	98	86	98	159	114	114	124	160
MIN	149	149	153	74	58	38	0	85	103	108	114	51
AC-FT	9690	9360	9680	8260	3940	3510	1260	6690	6550	6880	7320	7230

CAL YR 1965 TOTAL 48908.0 MEAN 134 MAX 165 MIN 19 AC-FT 97010
WTR YR 1966 TOTAL 40506.0 MEAN 111 MAX 161 MIN 0 AC-FT 80340

11414200 SOUTH YUBA CANAL NEAR EMIGRANT GAP, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	99	76	79	142	135	153	148	146	148	145	147
2	99	99	77	77	142	134	154	146	146	148	145	146
3	99	99	72	77	142	133	147	145	146	148	145	146
4	99	99	79	76	142	95	142	112	147	148	145	146
5	98	99	75	74	142	75	141	124	147	148	144	146
6	101	98	113	74	142	78	140	141	147	148	143	146
7	103	96	154	73	142	78	140	143	147	148	143	146
8	100	99	155	75	143	78	140	125	147	148	143	146
9	99	99	154	74	143	78	140	134	147	148	145	147
10	99	99	154	77	144	80	140	150	147	149	146	147
11	99	98	152	76	144	94	140	149	147	150	142	147
12	98	98	151	75	144	95	140	149	147	150	138	147
13	98	97	150	75	143	95	141	149	147	150	139	147
14	97	83	154	74	142	95	145	148	147	150	136	147
15	97	76	153	74	140	96	152	148	147	150	56	140
16	96	74	152	74	140	82	155	150	147	150	32	131
17	96	76	151	77	136	71	155	148	147	150	139	138
18	97	75	150	77	140	28	155	147	148	150	138	146
19	97	74	149	77	139	11	154	147	148	150	147	146
20	98	76	149	82	138	20	154	147	148	148	147	147
21	102	74	148	93	136	20	157	148	148	146	147	147
22	100	74	151	80	135	21	155	149	147	146	147	147
23	98	74	152	80	134	22	154	145	147	145	148	146
24	98	74	154	86	134	22	154	147	147	145	147	146
25	96	74	154	95	138	22	153	147	148	146	147	145
26	98	74	153	107	138	67	152	147	147	146	147	145
27	100	73	123	140	137	154	105	146	147	145	147	145
28	99	77	77	142	136	155	123	146	147	146	148	145
29	99	78	80	143	---	155	149	146	145	146	148	145
30	98	76	77	143	---	154	149	146	147	145	148	145
31	96	---	77	142	---	154	---	147	---	145	146	---
TOTAL	3053	2561	3966	2768	3918	2597	4379	4464	4410	4580	4278	4355
MEAN	98.5	85.4	128	89.3	140	83.8	146	144	147	148	138	145
MAX	103	99	155	143	144	155	157	150	148	150	148	147
MIN	96	73	72	73	134	11	105	112	145	145	32	131
AC-FT	6060	5080	7870	5490	7770	5150	8690	8850	8750	9080	8490	8640

CAL YR 1966 TOTAL 35605.00 MEAN 97.5 MAX 160 MIN 0 AC-FT 70620
WTR YR 1967 TOTAL 45329.00 MEAN 124 MAX 157 MIN 11 AC-FT 89910

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	146	62	83	84	95	120	142	79	90	102	104	101
2	148	77	91	85	85	120	142	79	90	103	104	101
3	147	84	97	85	85	120	140	82	90	104	105	101
4	146	99	98	85	86	120	140	83	91	105	105	100
5	146	100	95	85	86	119	140	84	92	102	104	100
6	145	79	95	85	82	120	139	84	92	101	103	101
7	144	65	96	85	78	120	138	83	92	102	103	99
8	145	47	96	85	79	121	138	84	91	101	103	101
9	145	67	99	85	99	121	60	86	89	101	103	99
10	145	72	99	94	109	121	13	89	91	101	104	99
11	145	88	97	92	114	121	13	90	91	102	104	99
12	145	88	94	87	115	121	35	90	91	100	103	100
13	141	87	91	87	116	121	79	90	91	103	103	99
14	147	87	91	91	116	120	80	90	90	102	103	101
15	113	87	91	88	116	120	44	91	90	102	105	99
16	87	86	92	83	117	120	46	90	91	104	106	99
17	90	86	92	84	117	118	52	88	94	104	106	100
18	90	87	93	82	113	117	53	89	96	103	106	100
19	89	87	93	84	107	116	53	90	97	104	107	102
20	92	85	93	87	109	116	81	89	97	104	100	101
21	93	87	93	90	99	117	79	90	97	105	100	101
22	91	87	94	91	88	119	79	90	97	104	101	100
23	80	86	94	91	91	119	81	90	97	103	101	100
24	75	85	95	88	91	120	82	91	98	103	102	103
25	74	85	95	85	106	119	81	91	101	103	102	103
26	74	85	91	89	116	129	81	91	99	103	101	103
27	103	55	87	99	121	143	81	91	101	103	100	102
28	131	59	86	103	121	143	82	91	101	103	99	102
29	98	70	85	114	121	144	83	92	101	103	99	101
30	81	84	84	119	---	145	79	92	100	103	99	101
31	74	---	84	118	---	144	---	90	---	102	101	---
TOTAL	3570	2403	2864	2810	2978	3834	2536	2729	2828	3185	3186	3018
MEAN	115	80.1	92.4	90.6	103	124	84.5	88.0	94.3	103	103	101
MAX	148	100	99	119	121	145	142	92	101	105	107	103
MIN	74	47	83	82	78	116	13	79	89	100	99	99
AC-FT	7080	4770	5680	5570	5910	7600	5030	5410	5610	6320	6320	5990

CAL YR 1967 TOTAL 44586 MEAN 122 MAX 157 MIN 11 AC-FT 88440
WTR YR 1968 TOTAL 35941 MEAN 98.2 MAX 148 MIN 13 AC-FT 71290

11414200 SOUTH YUBA CANAL NEAR EMIGRANT GAP, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	100	89	89	116	125	126	135	136	95	108	105
2	102	102	89	89	116	125	128	134	136	95	106	106
3	102	101	89	90	116	126	128	134	136	97	105	106
4	86	101	89	90	116	124	128	134	137	99	105	106
5	104	98	83	89	118	125	126	33	136	100	105	106
6	105	97	89	88	118	127	125	71	141	101	107	106
7	104	96	90	88	118	126	127	114	142	100	106	106
8	106	97	90	88	118	124	126	119	142	99	104	105
9	106	97	90	89	117	122	125	123	142	99	107	105
10	105	95	92	89	118	99	125	129	141	99	107	106
11	104	95	89	90	119	90	126	129	141	99	105	106
12	105	95	89	90	123	94	127	133	141	98	106	107
13	103	76	90	72	124	94	129	133	141	99	107	107
14	84	94	92	59	126	92	129	133	141	98	106	107
15	78	94	93	76	126	92	129	131	141	99	106	107
16	81	93	92	84	125	93	128	132	141	99	106	107
17	82	92	91	87	124	92	130	134	140	99	106	105
18	93	91	90	92	126	94	130	134	141	100	106	105
19	104	92	90	99	126	94	131	134	141	101	106	105
20	103	93	90	79	125	91	133	134	142	102	106	106
21	85	93	90	63	124	92	134	134	142	102	106	106
22	79	95	90	73	126	92	132	134	142	102	106	106
23	79	95	90	75	126	92	132	135	142	103	106	106
24	79	94	92	79	125	91	133	135	142	106	106	106
25	79	94	86	75	124	92	133	135	142	107	106	106
26	80	95	87	96	123	94	134	135	142	107	105	107
27	79	95	89	122	124	109	132	135	142	107	105	106
28	79	96	89	116	126	118	131	135	142	107	106	106
29	80	96	89	116	---	121	133	136	125	107	105	105
30	94	91	89	116	---	124	134	137	96	106	105	102
31	98	---	88	116	---	126	---	136	---	107	105	---
TOTAL	2870	2843	2775	2764	3413	3300	3884	3940	4156	3139	3281	3175
MEAN	92.6	94.8	89.5	89.2	122	106	129	127	139	101	106	106
MAX	106	102	93	122	126	127	134	137	142	107	108	107
MIN	78	76	83	59	116	90	125	33	96	95	104	102
AC-FT	5690	5640	5500	5480	6770	6550	7700	7810	8240	6230	6510	6300

CAL YR 1968 TOTAL 35592 MEAN 97.2 MAX 145 MIN 13 AC-FT 70600
WTR YR 1969 TOTAL 39540 MEAN 108 MAX 142 MIN 33 AC-FT 78430

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	103	78	83	67	133	132	134	105	120	124	131	128
2	103	72	83	64	135	129	134	116	126	124	128	128
3	104	71	82	62	134	133	107	116	127	125	128	128
4	104	72	81	63	134	133	89	118	125	126	127	128
5	88	74	83	63	133	133	88	117	123	125	126	128
6	78	74	83	63	132	134	22	117	123	125	125	127
7	77	73	82	63	134	133	1.9	118	123	126	125	127
8	77	72	83	63	135	134	1.9	119	122	127	125	127
9	73	72	83	67	135	133	12	119	121	126	125	127
10	74	72	82	72	135	133	35	117	121	126	127	127
11	73	71	82	75	134	132	67	118	121	126	129	127
12	74	73	82	78	134	132	69	118	122	126	129	128
13	74	74	84	77	134	133	17	118	122	130	128	128
14	74	73	85	66	133	135	2.1	117	123	130	128	129
15	74	73	84	89	132	135	1.9	118	123	131	128	130
16	74	72	85	57	133	134	6.9	119	123	132	128	129
17	75	74	83	43	132	134	28	119	122	133	114	129
18	74	74	81	89	132	133	74	117	121	131	128	129
19	73	74	74	120	132	133	77	115	122	131	128	128
20	72	75	67	122	133	134	18	118	122	132	128	128
21	71	75	70	121	135	133	1.9	117	123	131	127	127
22	74	75	72	122	137	134	1.9	118	116	130	127	128
23	76	75	80	128	136	134	1.9	119	122	130	128	129
24	83	74	68	122	134	136	43	117	129	130	128	130
25	89	56	57	130	134	137	97	116	126	130	131	130
26	90	77	67	132	132	138	96	116	125	130	132	128
27	91	79	79	132	103	137	94	115	125	130	132	128
28	91	80	74	132	133	136	93	117	124	130	132	125
29	90	82	72	133	---	136	93	120	124	130	132	123
30	90	83	88	133	---	136	93	120	124	131	132	121
31	90	---	68	132	---	136	---	118	---	131	131	---
TOTAL	2553	2219	2427	2880	3713	4155	1600.4	3632	3690	3989	3967	3829
MEAN	82.4	74.0	78.3	92.9	133	134	53.3	117	123	129	128	128
MAX	104	83	88	133	137	138	134	120	129	133	132	130
MIN	71	56	57	43	103	129	1.9	105	116	124	114	121
AC-FT	5060	4400	4810	5710	7360	8240	3170	7200	7320	7910	7870	7590

CAL YR 1969 TOTAL 38251.0 MEAN 105 MAX 142 MIN 33 AC-FT 75870
WTR YR 1970 TOTAL 38654.4 MEAN 106 MAX 138 MIN 1.9 AC-FT 76670

11414250 SOUTH YUBA RIVER AT LANGS CROSSING, NEAR EMIGRANT GAP, CALIF.

LOCATION.--Lat 39°19'07", long 120°39'27", in SW¼SW¼ sec.20, T.17 N., R.12 E., Nevada County, on right bank 150 ft downstream from road bridge, 0.8 mile downstream from Spaulding Nos. 1 and 2 powerplants, and 1.6 miles northeast of Emigrant Gap.

DRAINAGE AREA.--120 sq mi.

PERIOD OF RECORD.--December 1965 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 4,432.44 ft above mean sea level (levels by Pacific Gas & Electric Co.).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for December 1965 to September 1970 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	May 24, 25, 1966	33	-	Dec. 21-23, 1965	3.2
1967	June 17, 1967	3,550	9.61	Aug. 17, 1967	3.2
1968	Feb. 21, 1968	186	3.93	Nov. 5-7, 1967	3.1
1969	May 23, 24, 1969	3,010	9.11	Oct. 1-3, 1968	5.4
1970	Jan. 22, 1970	9,700	14.45	Several days	5.2

Period of record: Maximum discharge, 9,700 cfs Jan. 22, 1970 (gage height, 14.45 ft); minimum daily, 3.1 cfs Nov. 5-7, 1967.

REMARKS.--Flow regulated by Lake Spaulding (see station 11414140). See schematic diagrams of Yuba River basin and Bear River basin elsewhere in this report.

COOPERATION.--Water-stage-recorder graphs and 28 discharge measurements for the water years 1966-67 furnished by Pacific Gas & Electric Co., in connection with a Federal Power Commission project. Records for the water years 1968-70 collected by Pacific Gas & Electric Co., under general supervision of the Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, DECEMBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			30	6.0	4.4	6.6	21	12	11	6.0	6.6	5.7
2			29	6.6	3.9	6.6	17	10	11	6.0	6.6	5.7
3			26	6.6	3.9	6.2	15	9.7	16	6.0	6.6	5.7
4			22	5.7	4.6	6.0	13	9.7	16	6.0	6.6	5.7
5			22	11	9.7	5.8	12	9.7	14	5.7	6.6	6.0
6			22	20	11	5.9	11	9.7	12	6.9	6.6	6.3
7			20	16	7.6	8.0	12	9.7	12	7.6	6.6	6.3
8			17	14	6.0	11	13	9.3	12	7.6	6.6	6.6
9			17	12	4.6	12	14	9.0	13	7.6	6.6	6.6
10			17	11	4.6	24	19	9.0	11	7.6	6.6	6.6
11			17	9.0	4.1	16	22	9.3	10	7.6	6.6	6.6
12			17	7.9	4.1	14	21	9.3	9.3	7.6	6.6	8.3
13			14	7.6	4.1	23	20	9.3	9.3	7.6	6.6	5.4
14			9.3	7.6	3.8	19	18	9.0	9.7	7.6	6.6	6.6
15			9.0	8.6	3.8	17	16	9.3	9.3	7.2	6.6	6.6
16			9.0	8.3	3.8	15	15	9.3	8.3	7.2	6.6	6.6
17			8.3	6.6	3.8	12	14	9.3	8.6	7.2	6.6	6.6
18			8.3	6.6	3.9	10	12	9.3	8.6	7.2	6.6	6.3
19			7.6	5.4	5.4	9.9	12	8.3	9.0	7.2	6.6	6.3
20			6.9	5.7	6.6	9.8	11	10	9.0	7.2	6.6	6.6
21			3.2	5.1	6.6	11	10	11	8.6	7.2	6.6	6.3
22			3.2	4.8	6.9	13	9.3	11	8.3	7.2	6.6	3.6
23			3.2	4.6	12	16	9.0	25	8.3	7.2	6.6	4.6
24			3.5	4.6	12	16	7.9	33	8.3	7.2	6.6	6.3
25			3.9	4.1	9.7	19	6.0	33	8.3	7.2	6.6	6.3
26			3.9	4.1	8.6	21	5.1	16	6.9	7.2	6.6	6.3
27			3.9	4.1	6.9	23	4.6	4.6	4.8	6.9	6.6	6.0
28			4.1	3.9	6.6	25	3.9	6.0	4.6	6.6	6.3	5.7
29			4.4	3.9	---	24	9.3	8.6	5.7	6.6	6.3	4.8
30			4.4	4.6	---	23	16	8.6	6.3	6.6	6.0	5.1
31			4.8	4.4	---	22	---	9.7	---	6.6	6.0	---
TOTAL			370.9	230.4	173.0	450.8	389.1	356.7	289.2	217.1	202.8	182.1
MEAN			12.0	7.43	6.18	14.5	13.0	11.5	9.64	7.00	6.54	6.07
MAX			30	20	12	25	22	33	16	7.6	6.6	8.3
MIN			3.2	3.9	3.8	5.8	3.9	4.6	4.6	5.7	6.0	3.6
AC-FT			736	457	343	894	772	708	574	431	402	361

WTR YR 1966 TOTAL 2862.1 MEAN 7.84 MAX 33 MIN 0 AC-FT 5680

11414250 SOUTH YUBA RIVER AT LANGS CROSSING, NEAR EMIGRANT GAP, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	5.7	34	3.8	28	9.2	23	10	572	2330	6.3	6.6
2	6.0	5.7	65	3.8	22	9.2	21	12	74	2090	6.0	6.6
3	6.0	5.7	40	4.6	19	8.8	15	18	172	1850	6.0	6.6
4	5.4	5.7	26	6.3	18	8.2	11	21	212	1330	5.4	6.9
5	15	5.7	67	6.6	19	8.5	10	20	456	870	5.4	6.9
6	34	8.8	56	6.6	18	8.8	11	26	1210	1170	5.1	6.9
7	34	7.6	32	6.3	18	8.8	12	34	1560	729	4.8	6.9
8	32	6.9	24	6.3	17	8.2	13	46	1460	271	4.6	6.9
9	32	6.3	20	6.3	16	7.6	14	55	1530	436	4.6	6.9
10	20	6.3	24	5.7	16	8.8	15	50	1470	423	4.4	6.9
11	7.6	6.3	21	6.3	16	10	13	25	1380	192	4.4	6.9
12	6.0	6.3	19	6.9	17	11	12	22	1380	105	4.6	6.9
13	6.0	6.0	18	6.9	17	11	14	25	1530	136	4.6	6.6
14	6.0	6.3	16	6.6	17	11	16	38	1570	227	4.6	6.6
15	6.0	7.2	12	6.6	15	14	18	55	1990	230	3.9	6.3
16	6.0	16	11	6.6	14	172	13	60	2430	183	3.6	6.0
17	6.0	8.0	10	6.9	12	116	14	58	3030	86	3.2	6.0
18	6.0	5.2	9.8	7.2	12	66	13	50	3080	59	4.1	8.5
19	6.0	4.9	9.2	7.2	12	28	62	48	2860	57	4.1	8.2
20	6.0	35	8.5	9.8	10	23	62	36	1590	43	4.8	6.9
21	6.0	22	8.2	115	10	25	19	47	1430	17	6.0	4.6
22	4.8	19	7.2	36	9.8	23	10	64	2820	14	6.6	4.1
23	4.6	9.0	6.9	22	9.8	30	9.8	56	2400	13	6.6	4.1
24	4.6	6.8	6.6	19	9.5	22	9.8	59	1890	11	6.6	4.1
25	5.7	5.7	6.3	17	9.5	18	9.5	656	2010	9.8	6.3	4.1
26	6.6	5.1	5.7	18	9.5	15	9.5	1490	1700	9.2	6.3	4.1
27	6.3	4.7	4.8	24	9.5	19	13	1680	2440	8.8	6.6	4.6
28	6.9	20	3.8	35	9.2	30	11	1830	2240	8.2	6.6	4.6
29	7.6	45	3.8	120	---	29	8.5	1680	2160	7.6	6.9	4.8
30	6.6	24	3.8	80	---	26	8.8	1630	2300	7.2	6.9	4.8
31	6.3	---	3.8	51	---	24	---	1450	---	6.9	6.6	---
TOTAL	318.0	326.9	583.4	664.3	409.8	809.1	490.9	11351	50946	12929.7	166.5	180.9
MEAN	10.3	10.9	18.8	21.4	14.6	26.1	16.4	366	1698	417	5.37	6.03
MAX	34	45	67	120	28	172	62	1830	3080	2330	6.9	8.5
MIN	4.6	4.7	3.8	3.8	9.2	7.6	8.5	10	74	6.9	3.2	4.1
AC-FT	631	648	1160	1320	813	1600	974	22510	101100	25650	330	359

CAL YR 1966 TOTAL 3719.5 MEAN 10.2 MAX 67 MIN 3.6 AC-FT 7380
WTR YR 1967 TOTAL 79176.5 MEAN 217 MAX 3080 MIN 3.2 AC-FT 157000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	4.0	7.2	10	9.6	46	14	6.9	5.8	6.3	6.1	5.8
2	10	4.4	7.2	9.6	16	45	14	6.6	5.8	6.1	5.8	5.6
3	8.7	4.2	7.2	9.0	25	44	13	6.6	5.8	6.1	5.6	5.6
4	5.8	4.9	13	8.3	18	44	12	6.6	5.8	6.1	5.6	5.6
5	5.3	3.1	29	8.3	17	44	11	6.6	6.1	6.1	5.3	5.6
6	5.3	3.1	14	8.3	18	43	11	6.6	6.9	5.8	5.3	5.8
7	5.1	3.1	13	8.0	19	42	10	6.3	6.9	5.8	5.1	5.8
8	4.9	3.4	11	8.0	17	44	10	6.3	6.3	5.8	5.1	5.6
9	5.1	4.6	11	8.0	21	45	11	6.3	6.1	6.1	5.1	5.6
10	4.9	4.6	11	8.3	20	44	9.3	6.3	6.6	6.1	5.1	5.6
11	4.6	4.9	10	8.3	18	42	9.3	6.3	7.2	6.1	5.1	5.3
12	4.9	5.3	9.3	8.3	17	40	9.0	6.3	7.4	6.6	5.1	5.3
13	4.4	6.1	7.0	8.3	16	39	8.7	6.9	7.4	5.3	5.1	5.3
14	4.2	6.9	5.7	17	16	39	8.7	6.9	7.4	5.3	5.1	5.3
15	5.3	6.6	6.6	72	14	39	13	6.9	7.4	5.8	5.3	5.3
16	18	6.3	6.6	29	15	40	13	6.6	7.4	5.6	5.6	5.6
17	19	6.3	6.6	19	46	40	7.4	6.6	7.4	5.3	6.1	5.6
18	12	6.6	6.6	16	30	39	6.6	6.6	7.4	5.3	5.8	5.6
19	9.6	11	6.6	13	46	39	6.9	6.6	7.4	5.3	11	5.6
20	7.7	8.7	6.6	13	85	39	6.3	6.3	7.4	5.1	8.7	5.6
21	5.6	6.9	6.4	13	145	36	6.6	6.3	7.2	5.1	6.9	5.6
22	5.3	6.3	6.3	13	96	35	7.2	6.3	7.2	5.1	6.6	5.6
23	4.6	6.3	7.2	13	121	34	7.2	6.3	7.2	4.9	6.3	5.3
24	4.2	6.3	10	13	86	33	7.2	6.3	7.2	4.9	6.1	5.3
25	3.8	6.3	14	12	49	38	7.2	6.3	6.9	4.9	5.8	5.3
26	3.8	6.3	20	11	39	31	7.2	6.3	6.9	5.3	5.8	5.3
27	3.8	6.3	21	11	49	17	6.9	6.3	6.6	7.4	5.8	5.3
28	4.9	6.1	17	10	47	17	6.9	6.3	6.6	9.3	5.8	5.3
29	4.6	6.1	14	9.6	47	17	6.9	6.1	6.6	9.3	5.8	5.3
30	4.4	7.2	13	10	---	16	6.9	6.1	6.6	9.0	5.8	5.3
31	4.4	---	11	10	---	15	---	6.1	---	6.9	5.8	---
TOTAL	199.3	172.2	335.1	415.3	1162.6	1126	274.4	199.8	204.9	188.1	183.5	164.7
MEAN	6.43	5.74	10.8	13.4	40.1	36.3	9.15	6.45	6.83	6.07	5.92	5.49
MAX	19	11	29	72	145	46	14	6.9	7.4	9.3	11	5.8
MIN	3.8	3.1	5.7	8.0	9.6	15	6.3	6.1	5.8	4.9	5.1	5.3
AC-FT	395	342	665	824	2310	2230	544	396	406	373	364	327

CAL YR 1967 TOTAL 78654.8 MEAN 215 MAX 3080 MIN 3.1 AC-FT 156000
WTR YR 1968 TOTAL 4625.9 MEAN 12.6 MAX 145 MIN 3.1 AC-FT 9180

11414250 SOUTH YUBA RIVER AT LANGS CROSSING, NEAR EMIGRANT GAP, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	6.6	8.2	11	53	23	38	37	2120	14	7.4	6.9
2	5.4	15	8.2	11	53	21	32	38	2050	14	7.4	6.9
3	5.4	30	8.2	12	53	19	28	38	1900	14	7.2	6.9
4	6.3	16	8.3	16	50	18	28	38	2150	14	7.1	6.9
5	6.3	11	7.9	17	50	17	58	27	2080	13	7.1	6.9
6	5.9	9.5	7.4	17	49	14	34	33	2050	13	7.1	6.9
7	5.9	8.7	7.5	17	48	13	25	40	1880	13	7.1	6.9
8	5.8	8.2	7.9	16	48	12	22	44	1580	13	7.1	6.9
9	5.7	8.2	8.0	14	47	12	22	58	1310	12	7.1	6.9
10	5.7	8.2	21	13	47	10	25	112	921	11	7.1	6.9
11	6.2	8.2	20	13	48	8.7	31	114	497	11	7.1	7.0
12	15	8.2	15	16	47	8.7	44	107	419	10	7.1	7.0
13	13	8.2	12	80	42	8.7	32	224	567	10	7.1	7.1
14	12	8.2	14	47	40	9.0	26	1440	542	10	7.1	7.3
15	9.5	8.2	24	26	39	9.5	22	1660	773	9.9	7.1	7.4
16	8.1	8.2	19	20	39	11	23	1800	1260	9.6	7.1	7.4
17	7.5	8.2	15	17	37	14	34	2230	1160	9.4	7.1	7.4
18	6.9	8.2	13	27	36	17	48	2570	724	9.2	7.1	7.4
19	6.4	8.2	12	190	34	17	42	2320	548	9.0	7.1	7.7
20	6.2	8.2	11	347	33	16	33	1930	489	8.8	7.1	7.8
21	6.1	8.2	10	253	33	16	35	1930	578	8.6	7.1	8.1
22	6.1	8.2	10	61	30	17	44	2190	497	8.1	7.1	8.4
23	6.1	8.2	10	31	29	20	51	2520	234	7.9	7.1	8.4
24	6.1	8.2	25	29	29	21	39	2490	279	7.9	7.1	8.3
25	6.1	8.2	22	150	27	23	37	2270	249	7.9	7.1	8.0
26	6.1	8.2	16	178	30	26	37	2200	109	7.8	7.1	7.8
27	6.1	8.2	14	66	27	32	37	2130	61	7.6	7.1	7.6
28	6.1	8.2	13	66	24	35	40	1440	57	7.5	7.1	7.5
29	8.2	8.2	12	61	---	40	46	1350	41	7.4	7.1	7.3
30	8.7	8.2	11	59	---	44	42	1620	14	7.4	7.0	6.8
31	7.3	---	11	47	---	43	---	1760	---	7.4	6.9	---
TOTAL	221.6	285.4	401.6	1928	1122	595.6	1055	36760	27139	313.4	220.5	220.7
MEAN	7.15	9.51	13.0	62.2	40.1	19.2	35.2	1186	905	10.1	7.11	7.36
MAX	15	30	25	347	53	44	58	2570	2150	14	7.4	8.4
MIN	5.4	6.6	7.4	11	24	8.7	22	27	14	7.4	6.9	6.8
AC-FT	440	566	797	3820	2230	1180	2090	72910	53830	622	437	438

CAL YR 1968 TOTAL 4827.9 MEAN 13.2 MAX 145 MIN 4.9 AC-FT 9580
WTR YR 1969 TOTAL 70262.8 MEAN 193 MAX 2570 MIN 5.4 AC-FT 139400

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	7.4	7.6	8.4	63	52	9.6	11	6.4	8.2	6.6	6.4
2	7.1	7.1	7.6	7.9	56	43	8.7	9.3	6.6	8.2	6.6	7.1
3	6.9	6.9	7.4	7.4	52	37	7.4	9.0	6.4	8.2	6.4	7.1
4	6.9	6.9	7.4	6.6	50	35	7.1	8.4	6.4	8.2	6.4	7.1
5	6.9	13	7.4	6.4	49	36	7.1	7.9	6.1	7.9	6.4	7.1
6	7.1	16	7.6	6.1	49	34	6.4	7.6	5.9	8.7	6.1	7.1
7	7.1	14	7.6	6.1	47	34	5.2	7.4	5.9	11	6.1	7.1
8	8.2	12	8.2	7.1	45	40	5.2	7.4	6.6	12	6.1	7.1
9	7.6	10	8.4	42	44	35	7.6	7.4	9.0	14	6.1	7.1
10	7.1	9.3	8.4	43	44	34	10	7.6	12	16	6.6	7.1
11	6.6	9.0	11	25	44	33	10	7.4	11	17	6.6	22
12	6.9	8.7	17	38	47	33	10	7.4	9.3	16	6.6	10
13	7.1	8.4	17	79	57	31	9.9	7.1	9.0	15	6.9	7.9
14	7.4	8.2	13	181	55	32	13	6.9	9.0	13	7.4	7.6
15	14	8.2	11	48	51	30	12	6.9	9.0	16	6.9	7.9
16	26	8.7	10	261	53	32	13	7.1	8.7	12	6.6	7.4
17	16	8.2	10	240	56	27	13	6.6	8.7	8.7	7.1	7.4
18	11	8.2	9.9	126	51	25	13	6.6	8.7	7.9	6.4	7.4
19	9.6	8.2	37	97	46	24	14	6.4	8.4	7.1	6.1	7.4
20	8.7	8.2	62	92	43	22	14	6.1	8.4	6.4	5.9	7.4
21	8.7	7.9	126	1140	42	22	13	6.1	8.4	5.9	5.7	7.4
22	8.4	7.9	30	7620	39	20	13	6.1	8.7	5.9	5.7	7.4
23	8.2	7.6	56	2940	39	19	12	5.9	8.2	5.7	5.7	7.4
24	8.2	7.6	125	2840	38	14	12	5.9	8.4	5.7	5.7	7.4
25	8.4	6.9	89	818	38	10	10	5.9	8.4	5.9	5.7	7.1
26	8.4	7.4	30	269	36	10	11	5.9	8.7	5.7	5.9	7.1
27	8.4	7.6	18	585	30	9.9	12	5.7	8.7	5.4	5.9	6.9
28	8.4	7.9	14	283	37	9.9	12	5.7	8.7	5.4	5.9	6.9
29	8.2	7.6	11	101	---	10	13	6.4	8.7	5.2	5.9	6.9
30	7.9	7.6	10	87	---	10	13	6.4	8.4	5.9	5.7	6.6
31	7.9	---	9.3	72	---	9.6	---	5.9	---	6.6	5.7	---
TOTAL	276.4	262.6	793.8	18083.0	1301	813.4	317.2	217.4	246.8	284.8	193.4	233.8
MEAN	8.92	8.75	25.6	583	46.5	26.2	10.6	7.01	8.23	9.19	6.24	7.79
MAX	26	16	126	7620	63	52	14	11	12	17	7.4	22
MIN	6.6	6.9	7.4	6.1	30	9.6	5.2	5.7	5.9	5.2	5.7	6.4
AC-FT	548	521	1570	35870	2580	1610	629	431	490	565	384	464

CAL YR 1969 TOTAL 70687.0 MEAN 194 MAX 2570 MIN 6.6 AC-FT 140200
WTR YR 1970 TOTAL 23023.6 MEAN 63.1 MAX 7620 MIN 5.2 AC-FT 45670

11415500 BOWMAN LAKE NEAR GRANITEVILLE, CALIF.

LOCATION.--Lat 39°27'01", long 120°39'10", in SE¼SW¼ sec.5 T.18 N., R.12 E., Nevada County, on rockfill portion of Bowman Dam on Canyon Creek, 4.5 miles east of Graniteville and 8 miles south of Sierra City.

DRAINAGE AREA.--27.1 sq mi.

PERIOD OF RECORD.--December 1926 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Nevada Irrigation District). Prior to Oct. 8, 1964, nonrecording gage at present site and datum.

EXTREMES.--Maximums and minimums (contents in acre-feet, elevation in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum		
Wtr yr	Date	Contents	Elevation	Date	Contents	Elevation
1966	May 21-24, 1966	55,200	5,546.7	Sept.30, 1966	900	5,430.0
1967	June 19, 1967	66,400	5,560.7	Oct. 1-20, 1966	a0	-
1968	Oct. 8, 1967	59,300	5,551.9	Feb. 11-16, 1968	19,400	5,490.9
1969	June 3-6, 8, 17-19, 1969	69,200	5,564.3	Jan. 18, 1969	35,000	5,518.4
1970	June 9-11, 1970	68,800	5,563.8	Dec. 19, 1969	42,400	5,529.5

a Lake drained for inspection and repair on the dam.

Period of record: Maximum contents, 71,000 acre-ft May 30, 1965 (elevation, 5,566.5 ft); minimum observed under normal operating conditions since reservoir first filled, 1,000 acre-ft Mar. 4, 1931 (elevation, 5,430.1 ft); no storage Nov. 25 to Dec. 9, 1949, Oct. 1-20, 1966.

REMARKS.--Lake is formed by 1 rockfill and 1 concrete-arch dam; storage began in November 1926. Total capacity, 68,200 acre-ft between elevations 5,400 (bottom of outlet tunnel) and 5,563 ft (crest of concrete-arch dam) above mean sea level. Flashboards are occasionally added, increasing elevation to 5,565.8 ft and capacity to 70,400 acre-ft, all of which is available for release. Lake receives water from Middle Yuba River through Milton-Bowman tunnel (see station 11408000) and releases it through Bowman-Spaulding Canal (see station 11416000), which conveys it to reservoirs of Pacific Gas & Electric Co. Water is eventually used for irrigation by Nevada Irrigation District. See schematic diagram of Yuba River basin elsewhere in this report. Lake completely drained for inspection and repair Nov. 25 to Dec. 9, 1949, Oct. 1-20, 1966.

COOPERATION.--Two hundred forty-two nonrecording gage readings furnished by Nevada Irrigation District.

REVISIONS.--WSP 1931: Drainage area.

Capacity table, water years 1966-70 (elevation, in feet, and contents, in acre-feet)

5,430	900	5,450	4,100	5,480	14,200
5,435	1,400	5,460	6,900	5,510	30,000
5,440	2,100	5,470	10,200	5,540	49,800
				5,570	73,800

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32800	34300	48300	39000	28300	26000	30200	45500	53500	44600	32900	16200
2	32600	34200	48200	38700	28100	26000	30900	46000	53200	44100	32500	15500
3	32500	34100	48100	38400	28000	25900	31500	46600	53000	43700	32100	15000
4	32300	34400	48100	38000	27800	25700	32000	47200	53100	43300	31700	14500
5	32200	34600	48000	37800	27700	25700	32600	47800	53100	42900	31300	14000
6	32100	34700	47800	37600	27900	25600	33300	48400	52800	42400	31000	13400
7	32000	34900	47800	37300	27900	25600	34000	48900	52500	42000	30600	13000
8	31900	35200	47700	37000	27800	25600	34600	49400	52300	41600	30200	12500
9	31500	35600	47400	36500	27800	25600	35200	50100	52000	41200	29800	12000
10	31100	36100	47200	36200	27800	25700	35900	51500	51800	40800	29300	11400
11	30800	36500	47100	35800	27700	25800	36500	52500	51600	40400	28700	10700
12	31000	37000	46800	35400	27700	25900	37000	53200	51300	39900	28100	10200
13	31300	37600	46400	35000	27500	26200	37300	53800	51100	39500	27500	9600
14	31600	38300	45800	34600	27400	26400	37600	54000	50800	39100	26900	9000
15	31800	38900	45300	34200	27200	26600	38100	54300	50400	38700	26300	8550
16	32000	39400	44800	33800	27100	26800	38700	54400	50100	38200	25800	8100
17	32200	40200	44400	33400	27000	26800	39500	54600	49700	37800	25300	7560
18	32500	41100	44000	32900	26900	26800	40100	54700	49400	37400	24500	6990
19	32800	41600	43600	32500	26800	26800	40500	54800	49100	37000	23600	6420
20	33100	42100	43200	32000	26700	26800	40700	55000	48800	36900	23000	5790
21	33400	42700	42800	31500	26600	26800	40900	55200	48400	36800	22500	5100
22	33500	43200	42300	31100	26600	26800	41100	55200	48000	36700	21900	4620
23	33700	43900	41900	30800	26500	26800	41500	55200	47600	36300	21400	4050
24	34000	44600	41500	30400	26500	26900	42000	55200	47300	35900	20800	3400
25	34000	45300	41300	30100	26300	26900	42500	55100	46900	35600	20100	2560
26	33500	45900	41000	29800	26300	27200	43200	55000	46500	35300	19600	2060
27	33300	46400	40500	29400	26200	27500	43800	54800	46200	34800	19200	1780
28	33500	46900	40100	28900	26100	27900	44300	54700	45700	34400	18600	1500
29	33700	47400	39700	28700	---	28300	44700	54400	45300	34100	18000	1300
30	33900	47900	39500	28500	---	28800	45100	54100	44900	33700	17400	900
31	34100	---	39200	28400	---	29400	---	53900	---	33300	16800	---
MAX	34100	47900	48300	39000	28300	29400	45100	55200	53500	44600	32900	16200
MIN	30800	34100	39200	28400	26100	25600	30200	45500	44900	33300	16800	900
(†)	5516.8	5537.3	5524.9	5507.3	5503.5	5509.0	5533.3	5545.1	5533.0	5515.5	5485.8	5430.0
(‡)	+900	+13800	-8700	-10800	-2300	+3300	+15700	+8800	-9000	-11600	-16500	-15900

CAL YR 1965 MAX 70800 MIN 30800 ‡ -27000
WTR YR 1966 MAX 55200 MIN 900 ‡ -32300

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11415500 BOWMAN LAKE NEAR GRANITEVILLE, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	3850	20700	37800	37800	34800	41400	34500	60000	65500	57900	58800
2	0	4380	21800	38000	38000	34600	41400	34400	60400	65300	57900	58800
3	0	4720	23000	38200	37900	34400	41200	34300	60700	65200	57900	58000
4	0	5100	24000	38600	37800	34300	41000	33700	61000	65200	57800	58000
5	0	5430	24900	38900	37800	34100	40900	33500	61700	65000	57600	58100
6	0	5790	26300	39100	37700	33900	40800	33400	62800	65000	57500	58100
7	0	6000	27500	38900	37600	33700	40600	33600	63700	65200	57400	58200
8	0	6330	28200	38600	37600	33500	40300	34000	64700	65100	57400	58200
9	0	6600	28800	38300	37400	33300	40000	34600	65300	65100	57300	58200
10	0	6900	29200	38000	37300	33100	39700	35500	65500	65000	57200	58200
11	0	7170	29900	37600	37300	32900	39500	35200	65600	64800	57200	58200
12	0	7470	30600	37300	37200	33100	39300	35100	65600	64700	57100	58300
13	0	7740	31000	37000	37100	33200	39000	35000	65800	64500	57100	58300
14	0	8040	31600	36600	37100	33000	38800	35100	65600	64400	57000	58300
15	0	8460	31900	36300	37100	33100	38600	35600	65600	64100	57000	58400
16	0	9360	32200	36100	37000	35500	38200	36500	65600	63900	57000	58400
17	0	9960	32600	35800	37000	37800	38000	37900	65900	63600	57200	58400
18	0	10400	33000	35500	36800	39200	38000	39300	66100	63400	57200	58400
19	0	11000	33400	35200	36700	39900	38000	40800	66400	63000	57300	58500
20	0	12600	34000	34900	36500	40300	37800	42400	66200	62700	57300	58500
21	460	13300	34400	34600	36400	40500	37500	43200	66100	62300	57400	58500
22	830	13800	34700	35200	36200	40800	37000	45100	66100	62000	57400	58600
23	1140	14200	35200	35200	35900	41000	36900	47200	66000	61600	57500	58600
24	1380	14500	35500	35000	35800	41300	36700	49000	66000	61200	57600	58600
25	1530	14900	35800	34900	35600	41300	36400	50900	66000	60800	57600	58700
26	1780	15200	36100	34700	35400	41400	36000	52800	65900	60300	57700	58700
27	2130	15500	36400	34600	35200	41400	35800	54300	65700	59900	57700	58800
28	2400	17000	36700	34600	35000	41500	35400	55800	65600	59500	57800	58800
29	2740	18300	36900	35000	---	41500	35100	57200	65500	59100	57900	58800
30	3080	20000	37100	36400	---	41400	34800	58200	65500	58700	57900	58800
31	3460	---	37500	37300	---	41400	---	59200	---	58200	58000	---
MAX	3460	20000	37500	39100	38000	41500	41400	59200	66400	65500	58000	58800
MIN	0	3850	20700	34600	35000	32900	34800	33400	60000	58200	57000	58000
(†)	5447.3	5492.3	5522.4	5522.1	5518.3	5528.0	5518.0	5551.8	5559.6	5550.5	5550.2	5551.2
(‡)	+2560	+16500	+17500	-200	-2300	+6400	-6600	+24400	+6300	-7300	-200	+800

CAL YR 1966 MAX 55200 MIN 0 ‡ -1700
WTR YR 1967 MAX 66400 MIN 0 ‡ +57900

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58800	52900	40800	28500	21600	33500	35300	40400	51600	49700	42200	49200
2	59000	52500	40400	28100	21600	33800	35400	40800	52000	49400	42500	49400
3	59100	52200	40000	27700	21400	34100	35400	41400	52300	49000	42700	49700
4	59200	51800	39600	27200	21200	34500	35400	41900	52100	48700	42900	49800
5	59200	51400	39400	26800	21000	34800	35500	42300	52000	48300	43200	50100
6	59200	51100	38900	26400	20800	35100	35500	42600	51800	47900	43400	50400
7	59200	50700	38500	26000	20500	35300	35500	42800	51700	47600	43600	50600
8	59300	50300	38100	25600	20200	35500	35500	42900	51600	47200	43800	50900
9	59200	49900	37600	25200	20000	35600	35600	43200	51600	46500	44000	51200
10	58800	49500	37100	25000	19800	35800	35900	43400	51400	46200	44300	51400
11	58200	49200	36600	24500	19400	35800	36300	43500	51300	45800	44500	51600
12	57600	48900	36000	29200	19400	35900	36700	43600	51200	45400	44700	51900
13	57200	48500	35700	23800	19400	36100	37000	44000	51100	45000	44800	52000
14	56600	48200	35300	23500	19400	36100	37300	44300	50900	44600	45000	52300
15	56500	47800	34900	25200	19400	36000	37600	44500	50800	44200	45200	52500
16	56500	47600	34600	25700	19400	36000	37800	44700	50600	43800	45500	52700
17	56500	47200	34100	25600	19800	35900	38000	44900	50400	43400	45600	52900
18	56500	46800	33800	25300	20300	35800	38000	45100	50200	43000	45700	53200
19	56500	46400	33400	25000	21400	35600	38000	45400	50000	42600	46200	53300
20	56500	46000	33000	24700	23500	35400	38000	45900	49700	42200	46400	53500
21	56600	45500	32600	24300	25600	35200	37900	46400	49400	41800	46700	53700
22	56600	45000	32200	24000	26900	35000	37900	47100	49200	41500	46900	54000
23	56300	44600	31700	23700	29200	34900	37900	47600	49200	41300	47100	54200
24	56000	44100	31300	23400	30400	34700	37900	48100	49200	41300	47200	54400
25	55600	43600	30800	23200	31200	34600	38000	48700	49400	41300	47400	54700
26	55200	43200	30400	22900	31700	34600	38200	49200	49400	41300	47600	54900
27	54800	42600	30100	22700	32300	34400	38500	49700	49600	41500	48000	55200
28	54400	42100	29600	22400	32700	34400	38800	50200	49600	41600	48300	55400
29	54000	41800	29400	22300	33000	34500	39300	50600	49700	41800	48500	55600
30	53700	41300	29200	22200	---	34700	39800	50900	49700	42100	48800	55900
31	53300	---	28800	22000	---	35000	---	51200	---	42200	49000	---
MAX	59300	52900	40800	29200	33000	36100	39800	51200	52300	49700	49000	55900
MIN	53300	41300	28800	22000	19400	33500	35300	40400	49200	41300	42200	49200
(†)	5544.4	5527.9	5508.0	5496.1	5515.0	5518.4	5525.7	5541.8	5539.9	5529.1	5538.8	5547.6
(‡)	-5500	-12000	-12500	-6800	+11000	+2000	+4800	+11400	-1500	-7500	+6800	+6900

CAL YR 1967 MAX 66400 MIN 28800 ‡ -8700
WTR YR 1968 MAX 59300 MIN 19400 ‡ -2900

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11415500 BOWMAN LAKE NEAR GRANITEVILLE, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56100	55800	48300	39000	51200	46000	39800	50400	68800	68800	60100	55600
2	56400	55600	48000	38600	51200	45800	40100	52000	68800	68800	59600	55600
3	56600	56000	47600	38200	51100	45500	40300	53200	69200	68700	59100	55600
4	56800	55900	47300	37900	50900	45200	40400	54200	69200	68700	58600	55500
5	57000	55600	47000	37600	50800	44900	40500	55500	69200	68500	58000	55500
6	57200	55300	46600	37200	50700	44600	40600	57400	69200	68400	57600	55500
7	57500	54900	46200	36900	50400	44300	40500	59500	69100	68300	57200	55500
8	57700	54600	45900	36600	50100	44100	40400	62400	69200	68400	56700	55500
9	58000	54100	45600	36200	50000	43700	40200	64000	69100	68400	56300	55500
10	58100	53800	45400	35900	49800	43400	40100	65900	69000	68200	55700	55600
11	58400	53500	45100	35800	49700	43200	40100	66500	69000	68000	55200	55600
12	58800	53800	44800	35500	49500	42900	40200	66700	69000	67900	54800	55600
13	59200	53500	44500	35600	49300	42500	40600	66400	69100	67600	55100	55700
14	59500	53200	44300	35700	49200	42300	40700	66200	69100	67400	55100	55800
15	59600	52800	44100	35500	49100	41900	40700	66000	69100	67100	55200	55900
16	59800	52500	43800	35300	48900	41600	40700	66100	69100	66800	55200	56000
17	59900	52200	43400	35100	48700	41300	40800	66300	69200	66500	55500	56000
18	60000	52100	43100	35000	48500	41000	41300	66400	69200	66200	55600	56000
19	60100	52000	42800	37300	48200	40800	41700	66300	69200	65800	55800	56000
20	60200	51800	42400	42700	48000	40500	42300	66100	69100	65500	55800	56000
21	60200	51500	42100	46000	47700	40200	43200	66100	69100	65100	55800	56000
22	59900	51200	41800	46600	47400	39900	44100	66300	69100	64700	55800	55900
23	59400	50800	41500	47000	47300	39600	45200	66400	69100	64200	55800	55900
24	59000	50500	41400	47400	47100	39400	45800	66400	69100	63800	55900	55800
25	58600	50200	41300	48100	47000	39200	46000	66900	69000	63300	55900	55800
26	58200	49900	40900	50000	46800	39000	46200	67700	69000	62900	55900	55800
27	57800	49500	40600	50700	46500	38800	46400	68400	68900	62400	55900	55700
28	57400	49200	40400	51200	46300	38700	46800	68700	68800	62000	55700	55700
29	57000	48900	40000	51400	---	38700	47800	68800	68800	61600	55800	55700
30	56600	48600	39600	51300	---	39000	49000	69000	68800	61100	55700	55600
31	56200	---	39300	51200	---	39400	---	68800	---	60600	55700	---
MAX	60200	56000	48300	51400	51200	46000	49000	69000	69200	68800	60100	56000
MIN	56100	48600	39300	35000	46300	38700	39800	50400	68800	60600	54800	55500
(†)	5548.0	5538.3	5525.0	5541.8	5535.0	5525.1	5538.9	5563.8	5563.8	5553.5	5547.4	5547.3
(‡)	+300	-7600	-9300	+11900	-4900	-6900	+9600	+19000	0	-8200	-4900	-100

CAL YR 1968 MAX 60200 MIN 19400 ‡ +10500
WTR YR 1969 MAX 69200 MIN 35000 ‡ -300

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55600	53400	50300	56000	64800	63600	60400	53800	67900	65300	59400	51000
2	55600	53200	50100	55700	64700	63600	60000	53700	68000	65100	59200	51200
3	55600	52700	49700	55400	64600	63600	59800	53800	68200	64800	59100	51200
4	55600	52200	49100	55100	64500	63500	59600	54000	68400	64500	58900	51200
5	55600	52000	48500	54700	64400	63400	59400	54400	68400	64300	58700	51100
6	55600	51500	48000	54400	64400	63200	59200	54600	68400	64000	58600	51100
7	55600	50900	47500	54000	64400	63200	59100	54800	68500	63700	58400	51000
8	55600	50400	47000	53800	64300	63200	58900	54800	68700	63400	58300	50900
9	55600	50000	46500	54400	64300	63100	58800	54900	68800	63100	58000	50900
10	55600	49500	46000	54900	64300	63000	58800	55200	68800	62800	57800	50900
11	55600	49600	45600	55000	64300	62800	58700	55500	68800	62600	57600	50800
12	55500	49600	45200	55200	64400	62700	58600	55700	68600	62300	57200	50600
13	55500	49700	44800	55700	64400	62500	58400	56000	68600	62000	56800	50500
14	55400	49700	44500	57200	64400	62700	58300	56500	68700	61900	56300	50500
15	55700	49700	43800	57800	64400	62800	58000	57200	68500	61700	55700	50500
16	56000	49700	43400	63100	64400	62800	57800	58100	68400	61600	55200	50400
17	56000	49800	42900	65300	64400	62900	57600	59100	68300	61400	54700	50200
18	56000	49900	42600	65900	64400	62800	57200	60200	68200	61200	54000	49900
19	56000	50000	42400	66200	64300	62800	57000	61200	68000	61200	53500	49500
20	56000	50000	44600	66600	64100	62500	56800	62000	67900	60900	52900	49100
21	55800	50000	48800	67100	64000	62200	56500	62800	67700	60800	52400	48600
22	55200	50000	49400	67300	64000	62000	56200	63600	67500	60600	51800	48200
23	54700	50100	50300	67200	63900	61800	55900	64300	67200	60500	51200	47800
24	54100	50100	53600	66800	63700	61600	55500	65100	67000	60400	50800	47800
25	53600	50100	55800	66000	63600	61600	55200	65900	66700	60300	50800	47700
26	53300	50100	56400	65600	63600	61400	55000	66700	66300	60100	51000	47700
27	53300	50200	56700	65400	63400	61200	54800	67200	66100	60000	51100	47600
28	53300	50200	56700	65200	63300	61100	54600	67300	65900	59900	51200	47600
29	53400	50200	56700	65000	---	60800	54300	67400	65700	59800	51200	47600
30	53400	50300	56400	64900	---	60700	54000	67600	65600	59600	51100	47500
31	53400	---	56300	64800	---	60400	---	67600	---	59600	51000	---
MAX	56000	53400	56700	67300	64800	63600	60400	67600	68800	65300	59400	51200
MIN	53300	49500	42400	53800	63300	60400	54000	53700	65600	59600	50800	47500
(†)	5544.5	5540.6	5548.1	5558.8	5556.9	5553.3	5545.3	5562.3	5559.7	5552.2	5541.5	5536.7
(‡)	-2200	-3100	+6000	+8500	-1500	-2900	-6400	+13600	-2000	-6000	-8600	-3500

CAL YR 1969 MAX 69200 MIN 35000 ‡ +17000
WTR YR 1970 MAX 68800 MIN 42400 ‡ -8100

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11416000 BOWMAN-SPAULDING CANAL INTAKE NEAR GRANITEVILLE, CALIF.

(Formerly published as Bowman-Spaulding Canal intake near Sierra city)

LOCATION.--Lat 39°26'26", long 120°39'30", in NW¼SW¼ sec.8, T.18 N., R.12 E., Nevada County, Tahoe National Forest, on left bank 0.6 mile downstream from Bowman Dam, 4.5 miles east of Graniteville, and 8.5 miles (revised) south of Sierra City.

PERIOD OF RECORD.--October 1927 to September 1970. Prior to October 1960, published as Bowman-Spaulding Canal at intake. Oct. 1, 1960, to Sept. 30, 1965, published as "near Sierra City."

GAGE.--Water-stage recorder. Datum of gage is 5,390.39 ft above mean sea level. Prior to July 1965, at site 0.3 mile upstream at different datum.

AVERAGE DISCHARGE.--43 years, 151 cfs (109,400 acre-ft per year).

EXTREMES.--Period of record: Maximum daily discharge, 302 cfs Dec. 5, 1969; no flow at times in most years.

REMARKS.--Records good. Canal diverts from left bank at Canyon Creek below Bowman Lake. Water is diverted to Lake Spaulding and after passing through several powerhouses is used for irrigation by Nevada Irrigation District. See schematic diagram of Yuba River basin elsewhere in this report.

REVISIONS (WATER YEARS).--WSP 1395: 1935-36, 1940.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	266	238	86	228	82	72	76	144	246	240	213	287
2	267	238	87	226	77	72	76	143	246	240	212	288
3	263	238	87	226	81	72	76	128	145	238	208	288
4	230	241	87	226	82	71	77	121	2.9	238	209	286
5	234	245	87	232	83	71	78	122	83	237	208	288
6	262	245	86	232	83	71	78	125	242	237	208	288
7	229	246	86	230	83	72	80	135	242	237	208	285
8	224	242	86	241	83	72	80	146	242	236	187	288
9	221	125	182	241	78	73	81	150	242	236	190	287
10	233	73	229	240	69	75	46	69	242	234	283	288
11	245	79	229	240	69	72	8.0	0	242	233	292	288
12	245	85	228	240	68	72	6.5	62	242	232	291	289
13	233	86	228	238	67	75	39	150	243	230	289	290
14	233	88	226	238	66	74	71	154	243	230	288	289
15	237	83	226	238	72	73	70	176	243	229	288	288
16	237	79	225	236	74	72	72	186	243	229	294	289
17	237	84	225	234	75	72	73	189	243	228	292	290
18	237	87	225	233	75	73	69	192	243	228	287	290
19	237	85	232	233	74	73	73	195	243	226	285	289
20	240	84	237	233	74	73	103	195	243	89	284	292
21	240	83	237	232	74	73	131	195	243	9.2	283	291
22	241	83	237	232	73	73	120	208	243	102	284	289
23	241	84	236	230	74	73	102	220	242	219	287	288
24	241	86	236	230	74	73	103	220	242	218	287	286
25	241	85	236	230	73	74	104	225	241	216	288	286
26	241	85	234	229	73	75	71	228	241	215	288	285
27	242	87	233	229	73	76	65	236	241	215	288	278
28	246	86	232	228	72	76	106	246	241	214	287	261
29	246	86	230	228	---	76	137	246	240	214	285	285
30	241	86	232	226	---	76	144	246	240	213	287	284
31	237	---	230	125	---	76	---	246	---	213	288	---
TOTAL	7467	3822	5957	7104	2101	2271	2415.5	5298	6774.9	6575.2	8168	8600
MEAN	241	127	192	229	75.0	73.3	80.5	171	226	212	263	287
MAX	267	246	237	241	83	76	144	246	246	240	294	292
MIN	221	73	86	125	66	71	6.5	0	2.9	9.2	187	261
AC-FT	14810	7580	11820	14090	4170	4500	4790	10510	13440	13040	16200	17060

CAL YR 1965 TOTAL 46713.90 MEAN 128 MAX 267 MIN 0 AC-FT 92660
WTR YR 1966 TOTAL 66553.60 MEAN 182 MAX 294 MIN 0 AC-FT 132000

11416000 BOWMAN-SPAULDING CANAL INTAKE NEAR GRANITEVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	281	224	196	207	93	184	148	261	110	229	245	251
2	148	185	132	207	132	184	159	261	150	246	245	251
3	11	219	79	210	152	184	166	261	178	255	245	251
4	10	221	178	213	152	184	169	254	184	259	245	251
5	9.5	224	184	213	147	184	202	249	177	265	249	251
6	3.4	226	126	213	143	183	218	250	163	265	250	252
7	0	229	147	213	150	183	219	229	163	262	250	252
8	0	232	202	212	154	183	219	214	166	262	249	252
9	0	228	202	210	157	183	226	200	168	264	249	254
10	0	223	186	210	159	184	232	182	166	274	249	255
11	0	223	168	212	158	183	228	212	165	251	249	255
12	0	218	180	214	158	184	226	256	168	234	249	255
13	0	208	195	214	158	184	229	268	169	234	249	255
14	3.7	212	186	213	157	183	232	241	165	240	249	255
15	8.3	178	180	210	157	184	232	206	163	243	249	255
16	8.0	202	190	209	157	102	233	133	162	247	249	255
17	5.7	207	196	209	99	43	233	67	164	249	250	255
18	0	220	196	208	158	40	150	46	162	249	250	256
19	0	224	196	208	164	39	135	48	159	251	250	255
20	0	194	196	208	173	75	194	60	158	249	250	255
21	8.1	190	197	183	173	106	234	68	157	249	249	254
22	0	208	197	155	180	96	234	32	156	249	247	254
23	0	216	197	185	184	92	241	9.5	155	250	250	254
24	48	218	207	206	184	98	246	11	156	250	251	254
25	191	220	207	204	184	109	254	17	169	249	251	254
26	226	224	203	204	184	121	259	45	186	243	250	254
27	228	216	203	190	184	128	260	57	215	241	249	252
28	232	194	208	162	184	143	260	70	223	242	250	251
29	224	79	210	93	---	148	260	90	223	241	251	254
30	224	190	212	45	---	144	260	98	223	243	251	255
31	223	---	208	41	---	146	---	110	---	246	251	---
TOTAL	2092.7	6252	5764	5881	4435	4384	6558	4505.5	5123	7731	7720	7607
MEAN	67.5	208	186	190	158	141	219	145	171	249	249	254
MAX	281	232	212	214	184	184	260	268	223	274	251	256
MIN	0	79	79	41	93	39	135	9.5	110	229	245	251
AC-FT	4150	12400	11430	11660	8800	8700	13010	8940	10160	15330	15310	15090

CAL YR 1966 TOTAL 63416.30 MEAN 174 MAX 294 MIN 0 AC-FT 125800
WTR YR 1967 TOTAL 68053.20 MEAN 186 MAX 281 MIN 0 AC-FT 135000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	255	195	252	224	207	1.0	96	102	191	89	223	225
2	259	195	249	224	209	1.0	124	105	194	198	223	225
3	256	194	254	221	208	1.0	155	110	196	214	223	225
4	256	194	259	221	207	1.0	157	109	196	225	223	223
5	256	194	260	219	207	1.0	139	110	196	232	224	221
6	256	192	256	223	206	1.0	134	120	196	232	224	221
7	256	192	259	225	206	24	148	141	186	230	224	221
8	256	192	258	225	204	55	154	150	184	229	225	221
9	256	192	260	224	204	63	142	150	195	226	225	221
10	255	192	262	224	203	62	111	151	203	280	226	221
11	254	192	262	223	202	62	88	151	203	270	226	221
12	254	197	262	221	133	62	78	160	207	225	225	224
13	254	201	261	221	71	62	92	166	210	224	225	224
14	254	232	259	225	56	103	101	156	210	224	225	225
15	78	247	258	119	56	151	105	150	210	224	226	228
16	.40	96	258	113	57	165	110	159	210	223	226	229
17	.40	245	256	219	63	170	126	174	210	218	226	229
18	.40	254	256	228	60	178	145	180	212	218	228	230
19	.40	252	255	228	63	183	153	182	214	220	206	230
20	.40	254	255	226	28	190	149	169	214	220	206	229
21	.40	261	254	226	1.0	195	144	160	214	220	226	225
22	.40	269	254	221	1.0	192	142	161	214	224	232	225
23	125	263	252	214	1.0	191	142	162	77	228	229	225
24	196	258	254	213	1.0	190	142	172	0	180	229	225
25	196	258	255	213	1.0	184	142	182	0	224	228	225
26	195	258	256	212	1.0	165	142	186	0	221	226	226
27	195	259	234	210	1.0	169	133	188	0	221	135	226
28	194	261	220	209	1.0	172	129	190	0	221	228	224
29	194	261	219	209	1.0	159	121	190	0	221	223	224
30	195	261	218	202	---	120	106	190	0	221	224	226
31	195	---	220	203	---	95	---	190	---	223	224	---
TOTAL	5342.80	6711	7787	6585	2859.0	3368.0	3850	4866	4542	6825	6863	6744
MEAN	172	224	251	212	98.6	109	128	157	151	220	221	225
MAX	259	269	262	228	209	195	157	190	214	280	232	230
MIN	.40	96	218	113	1.0	1.0	78	102	0	89	135	221
AC-FT	10600	13310	15450	13060	5670	6680	7640	9650	9010	13540	13610	13380

CAL YR 1967 TOTAL 73785.30 MEAN 202 MAX 274 MIN .40 AC-FT 146400
WTR YR 1968 TOTAL 66342.80 MEAN 181 MAX 280 MIN 0 AC-FT 131600

11416000 BOWMAN-SPAULDING CANAL INTAKE NEAR GRANITEVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	228	228	214	209	135	203	146	60	61	265	278	294
2	228	232	214	209	121	203	134	76	60	265	278	292
3	228	226	214	209	174	203	123	97	57	265	281	272
4	228	216	213	209	172	204	158	124	62	265	282	263
5	229	216	218	212	170	204	183	126	77	265	281	264
6	229	216	224	215	170	204	165	79	125	265	282	265
7	230	221	224	215	170	204	165	60	131	265	284	265
8	230	225	224	215	169	204	191	60	139	134	283	262
9	232	226	223	214	178	203	207	62	152	269	282	263
10	232	229	224	214	186	203	207	33	169	271	281	265
11	233	234	220	213	185	203	208	15	192	275	280	270
12	233	236	219	213	183	202	166	18	203	277	282	272
13	230	232	218	212	183	201	143	16	203	277	284	272
14	229	233	218	154	184	201	164	18	203	276	286	274
15	229	233	218	184	184	201	178	14	203	275	286	274
16	229	233	216	191	183	200	197	16	201	277	284	275
17	229	233	215	190	183	201	191	16	209	278	282	275
18	229	236	214	191	183	201	162	17	216	278	281	275
19	230	229	212	89	196	201	123	17	215	277	281	274
20	232	225	212	11	206	201	85	16	210	272	282	282
21	232	224	210	8.0	206	200	74	16	213	276	283	290
22	232	224	212	68	206	200	62	15	228	283	280	290
23	232	224	212	106	206	200	55	16	238	284	278	290
24	230	224	212	106	206	200	89	18	249	284	282	290
25	230	224	213	80	204	198	142	14	252	277	287	290
26	230	224	210	38	204	197	143	42	252	272	288	292
27	229	224	210	67	203	197	143	62	252	275	292	295
28	229	225	210	93	204	198	134	63	255	277	293	295
29	229	225	209	111	---	160	102	62	263	276	293	295
30	228	225	209	124	---	145	70	63	264	276	293	294
31	226	---	209	135	---	147	---	62	---	277	294	---
TOTAL	7124	6802	6670	4705.0	5154	6089	4310	1373	5554	8348	8803	8369
MEAN	230	227	215	152	184	196	144	44.3	185	269	284	279
MAX	233	236	224	215	206	204	208	126	264	284	294	295
MIN	226	216	209	8.0	121	145	55	14	57	134	278	262
AC-FT	14130	13490	13230	9330	10220	12080	8550	2720	11020	16560	17460	16600

CAL YR 1968 TOTAL 67098.00 MEAN 183 MAX 280 MIN 0 AC-FT 133100
WTR YR 1969 TOTAL 73301.00 MEAN 201 MAX 295 MIN 8.0 AC-FT 145400

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	294	.75	253	210	172	188	144	248	266	288	284	286
2	295	122	253	215	172	182	252	246	272	289	283	286
3	297	216	252	221	172	204	251	246	272	292	283	286
4	295	216	280	223	172	217	250	241	272	292	283	286
5	294	215	302	223	172	217	248	239	275	292	282	286
6	294	254	295	223	182	218	248	235	277	290	281	286
7	297	284	292	222	190	220	248	234	282	289	281	284
8	299	258	290	164	190	214	248	234	284	289	281	284
9	295	240	280	179	190	210	248	234	292	288	281	286
10	293	244	283	74	190	215	247	232	284	288	280	286
11	294	247	259	163	190	226	241	229	276	288	280	286
12	294	247	241	161	192	230	239	234	274	287	280	286
13	294	246	240	84	191	228	245	236	274	287	280	278
14	295	244	239	34	191	208	248	238	280	287	283	280
15	286	244	241	68	191	208	248	238	283	286	286	283
16	239	245	245	54	191	216	248	236	283	284	284	283
17	251	246	247	18	192	216	248	230	283	283	286	282
18	278	246	247	22	192	228	248	222	283	282	284	284
19	292	247	225	44	204	235	250	221	283	282	283	281
20	297	247	151	16	215	234	247	222	286	282	282	280
21	288	247	34	15	215	234	247	230	288	286	283	278
22	282	247	110	1.5	215	234	252	242	288	288	284	278
23	282	247	161	1.2	215	234	260	250	288	288	284	277
24	286	251	24	1.2	215	234	260	246	288	288	284	277
25	288	256	18	31	216	230	260	242	288	287	283	281
26	100	254	116	93	217	227	254	244	288	287	283	283
27	.75	253	162	128	217	227	246	245	288	287	284	283
28	.75	253	158	151	214	230	247	248	288	286	284	283
29	.75	253	176	173	---	234	252	257	287	287	286	283
30	.75	253	216	172	---	234	253	262	287	287	286	283
31	.75	---	206	172	---	234	---	260	---	286	286	---
TOTAL	7302.75	7022.75	6496	3556.9	5475	6866	7377	7421	8459	8902	8774	8485
MEAN	236	234	210	115	196	221	246	239	282	287	283	283
MAX	299	284	302	223	217	235	260	262	292	292	286	286
MIN	.75	.75	18	1.2	172	182	144	221	266	282	280	277
AC-FT	14490	13930	12880	7060	10860	13620	14630	14720	16780	17660	17400	16830

CAL YR 1969 TOTAL 73526.50 MEAN 201 MAX 302 MIN .75 AC-FT 145800
WTR YR 1970 TOTAL 86137.40 MEAN 236 MAX 302 MIN .75 AC-FT 170900

11416100 BOWMAN-SPAULDING CANAL AT JORDAN CREEK SIPHON VENTURI, NEAR EMIGRANT GAP, CALIF.

LOCATION.--Lat 39°20'32", long 120°38'26", in SW¼NW¼ sec.16, T.17 N., R.12 E., Nevada County, at outlet of Jordan Creek siphon, 0.6 mile downstream from Fuller Lake and 3.5 miles northeast of Emigrant Gap.

PERIOD OF RECORD.--October 1964 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 5,440 ft above mean sea level (from topographic map).

AVERAGE DISCHARGE.--6 years, 215 cfs (155,800 acre-ft per year).

EXTREMES.--Period of record: Maximum daily discharge, 330 cfs Dec. 22, 1964; no flow at times in most years.

REMARKS.--Records show water diverted from Bowman Lake (see station 11415500) plus numerous small tributaries before it enters Lake Spaulding (see station 11414140). See schematic diagram of Yuba River basin elsewhere in this report.

COOPERATION.--Water-stage recorder graph and 14 discharge measurements for the water years 1966-67 furnished by Pacific Gas & Electric Co., in connection with a Federal Power Commission project. Records for water years 1968-70 collected by Pacific Gas & Electric Co., under general supervision of the Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	259	240	88	235	85	85	206	271	268	222	202	285
2	262	239	91	231	91	85	231	274	266	220	202	286
3	264	237	91	233	91	85	233	270	227	220	202	287
4	255	231	91	235	88	85	233	259	0	220	201	286
5	244	238	91	237	94	85	238	259	47	219	201	285
6	280	239	91	237	99	85	250	258	246	217	200	285
7	272	241	91	235	94	91	256	258	252	215	198	284
8	261	244	88	243	91	94	262	262	250	215	168	282
9	256	158	157	245	85	91	256	263	249	215	192	283
10	255	80	228	244	82	121	289	280	244	215	255	282
11	259	77	229	241	80	118	219	76	241	214	272	283
12	258	80	229	240	77	106	162	0	241	214	275	283
13	247	91	229	240	77	114	149	119	239	213	272	284
14	241	118	227	239	74	132	181	232	238	213	277	285
15	250	102	227	238	77	132	204	246	237	211	272	284
16	251	82	226	237	82	124	222	259	237	210	272	284
17	249	97	226	237	85	115	241	261	237	209	277	284
18	246	153	226	237	85	109	250	259	235	209	288	284
19	246	100	226	235	88	106	224	261	233	208	287	284
20	246	91	233	234	88	104	210	261	232	108	285	287
21	245	91	235	233	88	102	231	258	232	0	284	290
22	246	88	234	233	85	102	241	256	231	47	282	292
23	246	91	234	233	88	102	234	264	231	201	284	292
24	246	96	237	232	91	106	237	265	229	206	285	291
25	241	91	243	232	88	109	246	263	229	201	285	291
26	240	91	235	231	85	120	252	265	226	205	285	291
27	241	88	234	228	85	132	226	265	226	205	285	287
28	243	88	234	229	85	148	219	271	226	202	285	259
29	247	91	240	229	---	159	246	273	224	202	285	282
30	250	91	241	232	---	176	264	273	224	202	283	283
31	243	---	240	160	---	187	---	271	---	202	285	---
TOTAL	7789	4044	5992	7225	2408	3510	6912	7552	6697	6060	7926	8545
MEAN	251	135	193	233	86.0	113	230	244	223	195	256	285
MAX	280	244	243	245	99	187	289	280	268	222	288	292
MIN	240	77	88	160	74	85	149	0	0	0	168	259
AC-FT	15450	8020	11890	14330	4780	6960	13710	14980	13280	12020	15720	16950

CAL YR 1965 TOTAL 54916.00 MEAN 150 MAX 302 MIN 0 AC-FT 108900
WTR YR 1966 TOTAL 74660.00 MEAN 205 MAX 292 MIN 0 AC-FT 148100

11416100 BOWMAN-SPAULDING CANAL AT JORDAN CREEK SIPHON VENTURI, NEAR EMIGRANT GAP, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	284	222	224	217	218	218	217	261	281	294	255	253
2	257	183	239	215	217	219	214	263	280	295	255	253
3	93	222	217	217	220	219	217	266	282	300	255	253
4	19	219	197	217	218	218	215	270	295	300	255	255
5	0	220	271	218	217	217	241	266	299	299	255	256
6	0	232	258	218	211	214	264	268	297	299	256	256
7	0	237	219	218	214	215	265	287	296	296	256	256
8	0	229	228	218	217	217	261	296	297	294	256	256
9	0	231	234	217	217	218	261	300	297	293	256	256
10	0	226	238	217	218	219	270	297	296	293	256	257
11	0	218	223	219	218	227	267	289	296	272	256	256
12	0	215	214	219	220	232	262	297	296	255	256	257
13	0	210	218	219	227	240	261	300	297	253	256	257
14	0	214	218	219	223	235	264	297	297	253	256	256
15	0	206	214	219	218	222	265	297	295	253	256	256
16	0	227	217	219	217	195	262	297	295	252	256	256
17	0	211	219	218	118	286	259	296	296	255	255	257
18	0	218	219	217	228	284	145	295	296	256	255	262
19	0	215	218	217	215	244	88	294	296	256	256	261
20	0	249	217	217	214	218	166	293	295	256	255	256
21	0	217	217	273	214	227	255	299	294	256	253	257
22	0	211	217	243	217	234	259	299	293	255	253	256
23	0	213	217	214	219	233	261	295	292	255	253	256
24	0	213	218	239	219	222	258	293	287	255	255	256
25	0	213	219	237	219	214	261	293	281	255	256	256
26	134	215	218	229	218	213	263	293	285	255	256	257
27	223	214	217	250	217	211	266	295	293	253	255	256
28	224	219	218	247	217	214	266	295	298	256	253	253
29	235	234	218	289	---	222	263	289	296	255	253	252
30	219	211	218	299	---	217	262	291	295	255	253	253
31	223	---	217	283	---	219	---	289	---	256	253	---
TOTAL	1911	6564	6896	7158	6005	6983	7278	8960	8793	8330	7905	7677
MEAN	61.6	219	222	231	214	225	243	289	293	269	255	256
MAX	284	249	271	299	228	286	270	300	299	300	256	262
MIN	0	183	197	214	118	195	88	261	280	252	253	252
AC-FT	3790	13020	13680	14200	11910	13850	14440	17770	17440	16520	15680	15230

CAL YR 1966 TOTAL 72206.00 MEAN 198 MAX 292 MIN 0 AC-FT 143200
WTR YR 1967 TOTAL 84460.00 MEAN 231 MAX 300 MIN 0 AC-FT 167500

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	255	199	260	218	214	125	209	212	219	136	218	219
2	265	199	252	218	218	111	201	212	217	182	218	221
3	276	199	252	218	231	104	216	214	218	199	218	222
4	269	199	258	217	228	104	229	214	218	197	218	222
5	265	197	259	217	223	106	222	212	217	204	218	219
6	265	197	253	217	219	104	210	207	219	203	218	219
7	260	197	256	219	217	101	212	210	221	201	219	218
8	259	197	255	219	216	131	221	216	214	212	219	218
9	260	197	253	219	217	139	223	219	214	219	219	218
10	260	196	256	224	218	117	223	218	217	259	219	218
11	259	195	256	221	217	109	221	217	217	281	219	218
12	257	195	260	219	140	121	208	217	217	221	219	218
13	256	196	258	218	75	125	207	222	218	217	219	216
14	253	212	255	221	75	152	210	222	217	218	219	214
15	217	238	253	255	85	196	213	213	217	218	218	213
16	24	143	253	174	82	212	213	212	217	218	218	217
17	0	216	253	207	146	216	208	214	217	217	219	217
18	0	247	257	226	136	212	213	221	219	216	219	218
19	0	257	257	223	159	212	222	222	221	214	234	218
20	0	252	253	222	294	213	223	224	218	214	213	218
21	0	251	251	224	284	218	217	217	216	216	216	217
22	0	258	251	222	141	219	214	216	216	216	221	217
23	0	266	249	219	246	219	212	210	88	218	221	216
24	79	260	249	217	173	219	212	213	0	191	218	216
25	195	257	250	214	146	229	213	217	26	222	219	216
26	198	256	253	219	125	221	222	218	43	219	219	214
27	196	256	253	219	104	213	224	219	43	219	168	217
28	194	260	226	218	99	218	221	218	43	218	227	217
29	194	262	218	218	119	224	219	221	43	218	227	212
30	196	264	217	222	---	223	219	222	43	218	223	212
31	198	---	216	213	---	214	---	222	---	218	219	---
TOTAL	5350	6718	7742	6777	5047	5327	6477	6711	5113	6619	6759	6515
MEAN	173	224	250	219	174	172	216	216	170	214	218	217
MAX	276	266	260	255	294	229	229	224	221	281	234	222
MIN	0	143	216	174	75	101	201	207	0	136	168	212
AC-FT	10610	13330	15360	13440	10010	10570	12850	13310	10140	13130	13410	12920

CAL YR 1967 TOTAL 88899 MEAN 244 MAX 300 MIN 0 AC-FT 176300
WTR YR 1968 TOTAL 75155 MEAN 205 MAX 294 MIN 0 AC-FT 149100

11416100 BOWMAN-SPAULDING CANAL AT JORDAN CREEK SIPHON VENTURI, NEAR EMIGRANT GAP, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	214	216	214	215	180	227	288	292	304	296	287	290
2	215	222	236	215	176	226	289	288	292	295	287	289
3	215	244	160	214	218	225	255	293	288	294	286	286
4	215	236	220	214	227	239	233	290	280	293	287	289
5	216	237	216	214	227	227	279	305	271	292	287	288
6	216	186	218	217	221	201	292	308	289	291	286	287
7	216	214	218	222	216	216	265	309	299	289	287	287
8	216	213	218	214	212	219	258	309	294	131	287	288
9	216	214	218	219	212	219	275	311	293	295	288	286
10	216	215	226	219	218	221	282	312	291	292	287	286
11	216	215	237	220	219	221	295	311	295	292	287	288
12	244	237	224	223	226	219	299	311	306	292	285	289
13	235	229	219	253	224	219	292	309	305	292	288	291
14	232	247	227	256	221	218	296	307	308	293	289	291
15	222	228	229	214	224	218	290	304	308	293	289	291
16	244	217	226	219	226	219	295	310	305	292	289	290
17	182	218	218	218	221	219	306	308	299	293	289	289
18	223	221	216	215	216	221	310	302	303	293	288	288
19	237	247	216	296	212	222	306	295	309	293	287	288
20	238	170	216	305	221	222	300	282	300	292	286	288
21	184	226	214	303	227	223	296	299	292	289	287	291
22	216	220	214	232	227	223	304	307	290	291	288	290
23	216	216	217	200	229	224	306	309	290	293	287	289
24	216	216	222	263	232	225	293	307	294	294	286	288
25	216	216	226	296	244	232	295	299	296	291	286	289
26	216	215	223	292	245	239	295	291	295	288	287	287
27	216	214	220	282	226	253	294	303	295	287	288	288
28	214	212	219	243	224	271	300	303	293	287	290	290
29	209	214	218	221	---	285	305	296	292	287	290	290
30	222	214	217	211	---	266	300	302	295	286	290	289
31	218	---	216	201	---	274	---	306	---	286	290	---
TOTAL	6771	6589	6778	7326	6171	7133	8693	9378	8871	8872	8915	8660
MEAN	218	220	219	236	220	230	290	303	296	286	288	289
MAX	244	247	237	305	245	285	310	312	309	296	290	291
MIN	182	170	160	200	176	201	233	282	271	131	285	286
AC-FT	13430	13070	13440	14530	12240	14150	17240	18600	17600	17600	17680	17180

CAL YR 1968 TOTAL 75483.00 MEAN 206 MAX 294 MIN 0 AC-FT 149700
WTR YR 1969 TOTAL 94157.00 MEAN 258 MAX 312 MIN 131 AC-FT 186800

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	288	36	253	251	269	272	189	297	294	283	277	270
2	287	109	255	252	266	259	289	298	296	283	277	270
3	288	205	250	252	263	257	294	299	298	284	277	269
4	289	217	262	255	259	262	295	300	297	285	276	270
5	288	222	288	253	253	263	295	299	297	283	276	273
6	288	257	289	251	251	264	295	300	298	283	276	272
7	288	292	288	250	257	264	295	298	296	282	276	272
8	288	270	289	193	258	266	295	297	296	280	276	270
9	291	246	290	273	256	264	295	294	297	279	273	255
10	288	245	287	259	256	260	295	296	301	278	272	233
11	287	249	270	250	253	260	297	298	300	278	272	277
12	289	250	250	280	264	262	293	291	297	278	274	286
13	289	252	251	288	264	269	289	288	290	277	263	274
14	288	251	249	284	266	269	293	290	288	277	282	267
15	291	250	247	251	266	268	295	291	290	268	278	267
16	292	251	249	283	264	283	295	293	293	316	276	268
17	284	252	249	282	264	286	293	300	293	291	275	268
18	286	249	249	282	264	280	295	305	291	277	275	268
19	289	249	267	285	262	284	294	302	291	277	275	268
20	291	246	285	281	264	279	295	292	287	277	273	267
21	291	247	295	288	264	277	292	290	286	276	272	267
22	288	251	251	283	264	279	290	290	286	278	273	268
23	285	253	250	243	264	282	296	292	286	279	273	268
24	284	249	293	264	263	288	299	299	288	281	272	267
25	285	253	292	258	262	290	299	299	285	281	259	266
26	140	253	273	250	263	290	300	297	285	280	281	268
27	0	256	258	285	265	287	300	295	285	279	276	269
28	0	253	246	272	266	282	292	294	286	279	274	270
29	0	253	246	268	---	282	288	290	286	278	272	270
30	0	253	250	272	---	281	291	291	284	278	272	269
31	26	---	253	269	---	280	---	294	---	277	272	---
TOTAL	7368	7119	8224	8207	7330	8489	8723	9159	8747	8702	8495	8046
MEAN	238	237	265	265	262	274	291	295	292	281	274	268
MAX	292	292	295	288	269	290	300	305	301	316	282	286
MIN	0	36	246	193	251	257	189	288	284	268	259	233
AC-FT	14610	14120	16310	16280	14540	16840	17300	18170	17350	17260	16850	15960

CAL YR 1969 TOTAL 96730 MEAN 265 MAX 312 MIN 0 AC-FT 191900
WTR YR 1970 TOTAL 98609 MEAN 270 MAX 316 MIN 0 AC-FT 195600

11416500 CANYON CREEK BELOW BOWMAN LAKE, CALIF.

LOCATION.--Lat 39°26'23", long 120°39'39", in SE¼ sec.7, T.18 N., R.12 E., Nevada County, on left bank 1 mile downstream from Bowman Dam, 3 miles upstream from Texas Creek, and 9 miles south of Sierra City.

DRAINAGE AREA.--28.3 sq mi.

PERIOD OF RECORD.--January 1927 to September 1970.

GAGE.--Water-stage recorder and concrete control. Concrete control covered with rocks Jan. 22, 1970. Altitude of gage is 5,100 ft (from topographic map).

AVERAGE DISCHARGE.--43 years, 40.8 cfs (29,560 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Dec. 31, 1965	23	2.06	Mar. 1-4, 1966	2.5
1967	June 18, 1967	685	4.00	Nov. 4, 5, 1966	1.6
1968	Jan. 15, 1968	42	2.24	Aug. 24, 25, 1968	2.0
1969	May 13, 1969	1,120	4.83	Oct. 25-28, 1968, Sept. 4-6, 1969	2.6
1970	Jan. 22, 1970	3,740	a9.42	Sept.11, 12, 1970	1.3

a In gage well, 10.32 ft, from floodmarks.

Period of record: Maximum discharge, 3,740 cfs Jan. 22, 1970 (gage height, 9.42 ft in gage well, 10.32 ft, from floodmarks), from rating curve extended above 1,500 cfs on basis of slope-area measurement of peak flow; no flow at times.

REMARKS.--Records good except those after January 1970, which are fair. Flow regulated by French Lake (usable capacity, 13,840 acre-ft), Bowman Lake (see station 11415500), several smaller reservoirs, and by diversion into Bowman-Spaulding Canal (see station 11416000). See schematic diagram of Yuba River basin elsewhere in this report.

REVISIONS (WATER YEARS).--WSP 1315-A: 1930(M). WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	4.4	4.2	8.5	3.5	2.5	6.5	2.8	3.6	3.6	3.7	4.1
2	4.4	4.2	4.3	4.9	3.3	2.5	5.7	3.0	3.6	3.6	3.6	4.1
3	4.4	4.2	4.4	3.8	3.1	2.5	6.0	3.7	3.6	3.6	3.5	4.1
4	4.4	4.2	4.6	3.8	3.1	2.5	5.5	3.7	3.3	3.6	3.5	4.1
5	4.4	3.7	4.4	5.2	3.5	2.6	5.5	3.6	3.2	3.6	3.3	3.9
6	4.4	3.6	4.3	6.3	3.3	3.0	5.2	3.6	3.6	3.6	3.3	4.1
7	4.4	3.6	4.3	4.7	3.2	3.5	5.2	3.6	3.6	3.6	3.1	4.1
8	4.4	4.2	4.3	4.4	3.1	4.0	5.1	3.5	3.6	3.6	3.1	3.9
9	4.4	3.7	4.3	4.3	3.1	5.0	5.6	3.8	3.5	3.6	3.0	3.9
10	4.4	3.6	4.2	4.1	3.1	7.6	7.9	5.1	3.5	3.5	3.0	3.8
11	4.4	3.6	4.2	3.9	3.0	6.0	9.9	7.3	3.5	3.7	3.1	3.9
12	4.4	3.7	4.2	3.9	3.0	5.8	12	5.7	3.5	3.7	3.1	3.9
13	4.4	3.9	4.1	3.9	2.8	7.6	7.0	3.6	3.5	3.6	3.2	4.1
14	4.4	7.4	4.1	3.9	2.8	6.8	3.3	3.6	3.5	3.7	3.1	3.9
15	4.8	4.8	4.1	3.8	2.9	6.4	4.2	3.7	3.5	3.7	3.2	3.9
16	4.7	4.1	3.9	3.8	2.9	6.0	4.4	3.7	3.5	3.7	3.8	3.9
17	4.6	7.1	3.9	3.7	2.8	5.7	4.4	3.7	3.5	3.7	4.2	3.9
18	4.6	13	3.9	3.6	2.8	5.3	4.3	3.7	3.5	3.7	4.2	3.9
19	4.6	5.9	3.8	3.6	2.9	4.8	4.3	3.7	3.5	3.7	4.2	3.9
20	4.6	5.1	3.7	3.6	2.9	4.4	3.3	3.7	3.5	3.7	4.1	3.9
21	4.6	4.7	3.7	3.6	2.8	4.2	3.2	3.7	3.5	3.6	4.1	3.9
22	4.6	4.3	3.6	3.6	2.8	3.7	3.3	3.7	3.5	3.6	4.1	3.9
23	4.6	4.4	3.6	3.5	2.9	3.9	3.3	3.6	3.5	3.7	4.1	3.9
24	4.6	4.9	5.7	3.5	2.9	4.4	3.3	3.6	3.5	3.7	4.1	3.9
25	4.6	4.6	9.7	3.5	2.8	4.8	3.3	3.6	3.5	3.7	4.1	3.9
26	4.6	4.4	5.7	3.5	2.6	5.2	4.3	3.5	3.5	3.7	4.1	3.9
27	4.6	4.4	3.7	3.5	2.6	5.6	2.9	3.5	3.3	3.7	4.1	3.9
28	4.6	4.3	5.4	3.5	2.6	5.9	3.0	3.5	3.3	3.7	4.1	3.9
29	4.6	4.3	8.3	3.6	---	5.9	2.9	3.5	3.5	3.7	4.1	3.9
30	4.6	4.2	8.7	3.9	---	6.0	2.9	3.6	3.5	3.7	4.1	3.9
31	4.6	---	17	3.5	---	6.2	---	3.6	---	3.7	3.9	---
TOTAL	140.1	142.5	158.3	126.9	83.1	150.3	147.7	118.2	104.7	113.3	114.2	118.3
MEAN	4.52	4.75	5.11	4.09	2.97	4.85	4.92	3.81	3.49	3.65	3.68	3.94
MAX	4.8	13	17	8.5	3.5	7.6	12	7.3	3.6	3.7	4.2	4.1
MIN	4.4	3.6	3.6	3.5	2.6	2.5	2.9	2.8	3.2	3.5	3.0	3.8
AC-FT	278	283	314	252	165	298	293	234	208	225	227	235

CAL YR 1965 TOTAL 49491.9 MEAN 136 MAX 977 MIN 2.6 AC-FT 98170
WTR YR 1966 TOTAL 1517.6 MEAN 4.16 MAX 17 MIN 2.5 AC-FT 3010

11416500 CANYON CREEK BELOW BOWMAN LAKE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	2.5	12	4.4	6.5	4.8	4.0	2.9	6.9	369	4.1	4.0
2	5.2	2.0	12	4.4	5.6	4.8	4.0	3.8	6.3	333	4.1	4.0
3	6.9	1.7	8.3	4.4	5.4	4.8	4.0	4.6	6.1	297	4.1	4.1
4	4.8	1.6	6.3	4.4	5.4	4.4	4.0	5.6	6.9	261	4.1	4.1
5	5.1	1.6	11	4.4	5.8	4.3	3.8	6.3	8.9	98	4.1	4.1
6	11	2.1	12	4.4	5.6	4.4	3.8	8.7	7.0	5.1	4.1	4.1
7	13	2.0	5.8	4.3	5.6	4.4	3.8	9.3	14	4.9	4.1	4.1
8	12	2.0	5.8	4.3	5.4	4.4	4.1	10	127	4.8	4.1	4.1
9	12	2.1	5.6	4.3	5.4	4.6	4.4	11	317	4.8	4.1	4.1
10	12	2.0	6.9	4.1	5.6	4.8	4.3	8.3	385	4.8	3.3	4.1
11	12	1.8	5.6	4.1	5.6	7.9	4.1	6.7	401	4.6	3.3	4.0
12	11	1.8	5.6	4.3	6.1	9.1	4.1	6.9	441	4.6	3.3	3.8
13	11	1.7	6.0	4.3	6.1	17	4.4	7.9	505	4.4	3.3	3.8
14	6.2	2.2	6.0	4.4	5.6	12	4.4	9.5	469	4.4	3.3	3.8
15	2.6	4.0	5.6	4.4	5.1	7.2	3.6	11	469	4.4	3.3	3.8
16	3.0	9.1	5.4	4.4	4.9	44	3.3	12	501	4.4	3.2	3.6
17	4.3	3.6	5.2	4.4	4.8	13	4.6	12	553	4.4	2.9	4.0
18	7.0	2.7	5.2	4.3	4.9	7.4	5.2	10	617	4.4	2.9	4.0
19	9.8	5.5	5.2	4.3	4.8	6.0	3.3	11	665	4.3	2.7	3.8
20	8.7	13	5.1	8.5	4.6	5.8	3.2	12	625	4.3	2.7	3.6
21	3.0	4.6	4.9	57	4.6	6.7	3.2	12	605	4.3	4.0	3.6
22	1.7	3.5	4.9	19	4.6	6.1	3.2	11	573	4.3	4.4	3.6
23	2.0	3.0	4.9	7.4	4.6	7.8	3.2	9.8	525	4.3	4.3	3.6
24	4.1	2.9	4.9	7.6	4.6	5.8	3.2	8.9	477	4.3	4.4	3.6
25	4.1	2.7	4.8	6.3	4.6	5.2	3.0	7.9	469	4.3	4.6	3.6
26	3.6	2.5	4.6	7.4	4.4	4.9	3.0	7.8	469	4.3	4.4	3.6
27	3.2	2.5	4.6	9.1	4.4	4.6	3.2	7.2	445	4.1	4.3	3.6
28	2.2	15	4.6	11	4.6	4.6	3.0	6.7	409	4.1	4.3	3.6
29	2.5	12	4.6	28	---	4.3	3.0	6.5	397	4.1	4.1	3.6
30	2.7	6.3	4.4	13	---	4.4	2.7	6.1	385	4.1	4.1	3.6
31	2.6	---	4.4	7.9	---	4.9	---	6.7	---	4.1	4.0	---
TOTAL	193.4	120.0	192.2	264.5	145.2	234.4	111.1	260.1	10885.1	1472.9	118.0	115.0
MEAN	6.24	4.00	6.20	8.53	5.19	7.56	3.70	8.39	363	47.5	3.81	3.83
MAX	13	15	12	57	6.5	44	5.2	12	665	369	4.6	4.1
MIN	1.7	1.6	4.4	4.1	4.4	4.3	2.7	2.9	6.1	4.1	2.7	3.6
AC-FT	384	238	381	525	288	465	220	516	21590	2920	234	228

CAL YR 1966 TOTAL 1582.3 MEAN 4.34 MAX 15 MIN 1.6 AC-FT 3140
WTR YR 1967 TOTAL 14111.9 MEAN 38.7 MAX 665 MIN 1.6 AC-FT 27990

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	4.0	2.5	2.9	5.8	3.6	4.6	3.2	3.5	4.1	2.7	2.2
2	5.2	4.0	2.5	2.7	7.6	3.5	4.3	3.0	3.5	4.0	2.7	2.2
3	4.4	4.0	2.6	2.6	6.4	3.2	4.0	3.0	3.5	4.1	2.7	2.6
4	4.0	4.0	3.0	2.5	4.0	3.0	3.8	2.9	3.5	4.1	2.9	2.9
5	4.0	4.0	5.1	2.5	3.6	3.0	4.0	2.9	3.6	4.1	2.9	2.9
6	3.8	4.0	3.2	2.5	3.5	2.9	3.6	3.2	3.6	4.1	2.9	2.9
7	3.8	4.0	3.0	2.6	3.6	2.7	3.5	3.6	3.6	3.8	2.9	2.9
8	3.8	4.0	2.9	2.6	3.3	3.2	3.5	3.6	3.6	3.8	2.7	3.0
9	3.6	4.0	2.7	2.5	3.8	3.0	3.6	3.6	3.6	3.8	2.3	3.3
10	3.6	4.0	2.9	8.6	3.6	2.9	3.8	3.6	3.6	4.0	2.3	3.3
11	3.6	4.0	2.9	4.1	3.3	2.6	3.6	3.6	3.5	3.5	2.3	3.3
12	3.6	4.0	2.9	3.2	3.3	2.6	3.5	3.6	3.5	3.3	3.2	3.3
13	3.6	4.0	3.0	2.7	3.5	2.9	3.2	3.8	3.3	3.3	4.0	3.2
14	3.6	3.8	4.6	6.3	3.0	2.9	3.2	4.0	3.0	3.3	4.0	3.2
15	3.5	2.6	3.6	21	3.0	3.2	3.2	3.8	2.9	3.2	3.6	2.7
16	3.6	2.3	2.9	6.7	3.3	3.3	3.0	3.8	2.9	3.0	3.2	2.6
17	3.6	2.3	2.7	4.3	15	3.2	2.9	3.8	2.9	3.0	3.0	2.6
18	3.6	2.6	6.0	3.5	6.1	2.9	2.9	3.8	2.9	3.0	3.0	2.6
19	3.6	3.6	5.6	3.2	14	2.9	2.9	3.8	2.9	3.0	4.8	2.5
20	3.6	2.7	4.0	3.0	15	2.9	2.7	3.8	2.9	3.0	3.0	2.3
21	3.6	2.6	3.6	3.2	21	3.3	2.6	3.8	2.9	2.9	2.7	3.5
22	3.6	2.5	2.9	3.6	10	3.5	2.9	3.8	2.9	2.9	2.5	4.8
23	3.8	2.5	2.6	3.6	17	3.6	3.3	3.8	5.6	2.9	2.1	4.3
24	4.1	2.3	3.2	3.2	6.9	4.0	3.3	3.8	6.1	2.9	2.0	4.1
25	4.1	2.3	5.4	2.9	5.2	5.8	3.3	4.0	6.1	3.0	2.0	4.1
26	4.1	2.3	6.5	3.3	4.9	4.8	3.3	3.8	4.4	3.0	4.9	4.0
27	4.1	2.2	6.7	3.5	4.8	4.6	3.2	3.6	4.0	3.0	4.0	3.8
28	4.1	2.3	4.1	3.2	4.0	4.9	3.2	3.3	4.1	3.0	4.0	3.6
29	4.1	2.6	3.3	5.5	3.8	5.6	3.2	3.3	4.1	3.2	3.0	3.6
30	4.1	2.5	3.0	23	---	5.4	3.2	3.3	4.1	3.0	2.9	3.5
31	4.0	---	2.9	16	---	4.9	---	3.3	---	2.9	2.7	---
TOTAL	119.3	96.0	112.8	161.0	192.3	110.8	101.3	110.2	110.6	104.2	93.9	95.8
MEAN	3.85	3.20	3.64	5.19	6.63	3.57	3.38	3.55	3.69	3.36	3.03	3.19
MAX	5.2	4.0	6.7	23	21	5.8	4.6	4.0	6.1	4.1	4.9	4.8
MIN	3.5	2.2	2.5	2.5	3.0	2.6	2.6	2.9	2.9	2.9	2.0	2.2
AC-FT	237	190	224	319	381	220	201	219	219	207	186	190

CAL YR 1967 TOTAL 13934.4 MEAN 38.2 MAX 665 MIN 2.2 AC-FT 27640
WTR YR 1968 TOTAL 1408.2 MEAN 3.85 MAX 23 MIN 2.0 AC-FT 2790

11416500 CANYON CREEK BELOW BOWMAN LAKE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	3.0	3.2	3.5	3.6	4.0	7.6	7.2	675	39	3.1	2.8
2	3.6	6.6	3.2	3.5	3.5	3.8	6.1	6.6	575	29	3.1	2.7
3	3.6	9.8	3.2	3.8	3.3	3.6	4.9	5.9	406	18	3.1	2.7
4	3.6	4.8	3.2	4.2	3.3	3.5	5.6	6.4	560	7.9	3.1	2.6
5	3.6	3.8	3.2	4.2	3.9	3.3	7.6	10	515	4.8	3.1	2.6
6	3.6	3.5	3.2	4.2	5.1	3.3	5.2	10	458	5.6	3.1	2.6
7	3.3	3.3	3.2	4.2	3.5	3.2	4.9	8.7	390	4.6	2.9	2.7
8	3.0	3.2	3.3	3.9	3.3	3.2	5.1	9.6	485	4.2	2.9	4.2
9	3.0	3.0	3.3	3.8	3.5	3.2	5.1	9.4	500	4.2	2.8	5.1
10	3.0	3.0	7.2	3.6	3.8	3.2	5.9	232	404	4.0	2.8	4.3
11	3.2	4.3	4.9	6.2	3.9	3.1	7.2	732	350	3.6	2.8	3.9
12	5.1	7.6	4.0	6.7	3.8	3.1	8.9	992	346	3.6	2.8	3.3
13	5.2	4.1	3.9	21	3.6	3.1	7.4	1090	338	3.5	2.7	3.2
14	4.3	3.8	4.0	10	3.5	3.2	5.9	980	466	3.2	2.8	3.2
15	3.5	3.8	4.5	4.8	6.4	3.3	5.1	860	444	3.2	2.8	2.9
16	3.2	3.8	4.0	4.2	4.2	3.5	5.9	836	448	3.0	2.8	2.7
17	3.0	4.0	3.9	3.9	3.5	3.8	7.6	884	417	3.0	2.8	2.7
18	3.0	6.0	3.8	5.4	3.3	4.2	9.9	968	404	2.9	3.3	2.8
19	2.9	4.4	3.8	38	3.3	4.0	7.8	962	448	2.9	3.8	3.5
20	2.9	3.8	3.8	57	3.5	3.9	8.2	860	362	4.6	3.8	3.6
21	2.7	3.6	3.6	32	3.5	3.9	9.9	818	310	4.8	3.6	3.6
22	2.9	3.5	3.6	7.4	3.3	4.2	9.6	854	268	4.2	3.6	3.5
23	2.7	3.3	3.6	4.8	5.1	4.3	7.8	926	250	4.2	3.6	3.5
24	2.7	3.5	3.9	4.9	6.8	4.3	5.4	974	244	3.9	3.6	3.5
25	2.6	3.5	4.8	19	11	4.6	4.9	657	247	3.5	3.6	3.5
26	2.6	3.2	4.2	19	8.2	5.1	5.2	480	201	3.5	3.6	3.5
27	2.6	3.2	3.8	5.7	4.9	5.7	5.9	655	150	3.3	3.6	3.5
28	2.6	3.2	3.8	7.2	4.5	6.1	7.6	704	104	3.3	3.5	3.1
29	3.2	3.1	3.6	4.6	---	7.0	7.8	716	70	3.3	3.1	3.3
30	3.0	3.2	3.6	3.9	---	7.8	7.6	794	46	3.2	2.8	3.9
31	2.9	---	3.5	3.8	---	8.9	---	740	---	3.1	2.8	---
TOTAL	100.6	122.9	118.8	308.4	123.1	131.4	203.6	17787.8	10881	195.1	97.8	99.0
MEAN	3.25	4.10	3.83	9.95	4.40	4.24	6.79	574	363	6.29	3.15	3.30
MAX	5.2	9.8	7.2	57	11	8.9	9.9	1090	675	39	3.8	5.1
MIN	2.6	3.0	3.2	3.5	3.3	3.1	4.9	5.9	46	2.9	2.7	2.6
AC-FT	200	244	236	612	244	261	404	35280	21580	387	194	196

CAL YR 1968 TOTAL 1422.4 MEAN 3.89 MAX 23 MIN 2.0 AC-FT 2820
WTR YR 1969 TOTAL 30169.5 MEAN 82.7 MAX 1090 MIN 2.6 AC-FT 59840

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	3.3	2.2	2.9	190	3.4	1.9	5.4	2.7	3.0	3.2	3.0
2	3.5	3.3	2.2	2.8	169	2.4	1.9	4.4	2.7	3.0	3.2	3.0
3	3.3	3.3	2.2	2.8	135	2.4	1.8	4.0	2.7	2.7	3.2	2.7
4	3.3	3.2	2.4	2.7	111	2.4	2.0	3.2	2.7	2.7	3.2	2.8
5	3.5	3.6	2.4	2.6	94	2.7	3.7	3.0	2.7	3.4	3.2	3.2
6	3.5	4.0	2.4	2.6	79	3.4	3.7	3.0	2.7	3.2	3.2	3.2
7	3.5	4.0	2.2	2.6	59	4.2	3.7	3.0	2.4	3.0	3.2	3.2
8	3.8	4.0	2.3	2.8	48	4.7	3.4	3.0	3.0	3.0	3.0	3.4
9	3.3	3.9	2.3	14	40	4.2	3.2	3.0	15	3.0	3.0	2.0
10	3.1	3.9	2.4	8.0	34	3.7	3.4	3.2	60	2.7	3.0	1.5
11	2.8	3.8	2.4	5.2	30	3.7	3.7	3.2	30	3.0	3.0	1.3
12	2.8	3.3	4.6	11	43	4.2	3.4	3.2	30	3.2	2.7	1.3
13	2.8	3.2	4.6	19	82	5.4	3.4	3.4	8.7	3.2	2.7	5.2
14	2.9	3.1	3.1	26	94	7.5	3.7	3.2	4.0	3.2	2.7	6.3
15	5.7	3.2	2.7	9.4	77	5.4	3.7	2.7	5.0	3.2	2.7	3.4
16	8.0	3.8	2.6	50	62	4.7	3.7	2.4	3.7	3.2	2.7	3.4
17	5.0	3.1	2.6	220	82	5.8	3.7	2.2	3.2	3.2	2.7	3.4
18	3.5	2.9	2.7	465	72	6.6	4.0	2.2	3.2	3.2	2.7	3.4
19	3.1	2.7	13	427	39	4.7	5.0	2.0	3.0	3.2	2.7	3.7
20	2.9	2.6	19	699	27	3.2	4.7	2.0	2.7	3.2	2.7	3.7
21	2.8	2.6	28	2050	4.2	3.2	4.7	3.0	2.7	3.2	3.0	3.7
22	2.7	2.6	5.6	2970	2.0	3.4	5.0	4.7	2.4	3.2	3.0	3.7
23	2.6	2.6	17	1660	2.0	3.7	5.2	4.4	2.4	3.2	3.0	3.4
24	2.6	2.6	32	1410	1.9	3.7	5.0	4.0	2.2	3.2	3.0	3.4
25	2.6	2.6	16	874	1.9	3.4	4.4	3.7	2.2	3.2	3.0	3.4
26	2.4	2.4	5.2	662	2.0	3.2	4.7	3.0	2.2	3.2	3.0	3.4
27	2.3	2.4	4.3	680	2.0	3.0	5.2	3.0	2.2	3.2	3.0	3.4
28	2.4	2.3	3.6	506	2.7	2.4	5.2	2.7	2.2	3.2	3.0	3.4
29	2.7	2.2	3.3	328	---	2.4	5.4	2.7	2.2	3.2	3.0	3.2
30	5.1	2.2	3.2	257	---	2.2	6.0	2.7	2.4	3.2	3.0	3.4
31	3.6	---	3.1	210	---	2.2	---	2.7	---	3.2	3.0	---
TOTAL	106.0	92.7	201.6	13582.4	1585.7	117.5	118.5	98.3	213.2	96.7	91.7	97.5
MEAN	3.42	3.09	6.50	438	56.6	3.79	3.95	3.17	7.11	3.12	2.96	3.25
MAX	8.0	4.0	32	2970	190	7.5	6.0	5.4	60	3.4	3.2	6.3
MIN	2.3	2.2	2.2	2.6	1.9	2.2	1.8	2.0	2.2	2.7	2.7	1.3
AC-FT	210	184	400	26940	3150	233	235	195	423	192	182	193

CAL YR 1969 TOTAL 30227.5 MEAN 82.8 MAX 1090 MIN 2.2 AC-FT 59960
WTR YR 1970 TOTAL 16401.8 MEAN 44.9 MAX 2970 MIN 1.3 AC-FT 32530

11417000 SOUTH YUBA RIVER NEAR WASHINGTON, CALIF.

LOCATION.--Lat 39°21'38", long 120°46'14", on line between secs.5 and 8, T.17 N., R.11 E., Nevada County, on left bank 800 ft upstream from unnamed tributary and 1.5 miles east of Washington.

DRAINAGE AREA.--198 sq mi.

PERIOD OF RECORD.--March 1942 to September 1953, October 1956 to September 1970. Prior to October 1949, published as South Fork Yuba River near Washington.

GAGE.--Water-stage recorder. Altitude of gage is 2,735 ft (from river-profile map). See WSP 1931 for history of changes prior to Feb. 27, 1965.

AVERAGE DISCHARGE.--25 years, 295 cfs (213,700 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Nov. 18, 1965	665	3.60	Aug. 8, 1966	19
1967	June 19, 1967	4,070	7.77	Oct. 23-25, 1966	19
1968	Feb. 20, 1968	2,140	5.92	Aug. 4, 5, 8-13, 1968	16
1969	Jan. 20, 1969	5,240	8.63	Oct. 1-4, 9, 10, 1968	20
1970	Jan. 21, 1970	12,000	12.20	Oct. 4, 1969, Sept. 10, 1970	23

Period of record: Maximum discharge, 35,300 cfs Dec. 23, 1964 (gage height, 20.0 ft, from floodmarks), from rating curve extended above 6,500 cfs on basis of slope-area measurement at gage height 16.60 ft in gage well, 17.8 ft, from floodmarks; minimum, 9.1 cfs Oct. 18, 1950.

Flood of Dec. 23, 1955, reached a stage of 17.8 ft, from floodmarks (discharge, 26,300 cfs).

REMARKS.--Records good except those for periods of no gage-height record Nov. 13 to Dec. 21, 1969, Jan. 31 to Mar. 2, 1970, which are fair. Natural flow affected by Lake Spaulding beginning in 1912 (see station 11414140), Bowman Lake (see station 11415500), Fordyce Lake beginning in 1926 (capacity, 46,700 acre-ft), and diversions into and out of basin for several powerhouses and for irrigation of about 20,000 acres by Nevada Irrigation District. See schematic diagram of Yuba River basin elsewhere in this report.

REVISIONS (WATER YEARS).--WSP 1515: 1943(M), 1951. WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	184	156	71	55	59	80	266	78	39	23	21	22
2	187	152	69	52	56	76	250	76	40	22	20	22
3	189	149	70	50	55	71	232	78	41	22	20	21
4	187	142	68	72	62	68	214	76	41	22	20	22
5	177	129	68	227	128	67	205	74	38	22	20	22
6	176	60	65	236	161	70	197	68	37	21	20	22
7	194	55	62	190	112	116	188	65	37	22	20	22
8	182	68	58	167	96	127	170	63	39	22	19	22
9	182	57	57	146	83	160	167	66	39	23	22	22
10	182	51	55	121	78	332	278	163	36	23	23	22
11	182	49	56	104	71	230	300	205	34	23	22	22
12	182	48	61	93	68	190	290	152	32	23	22	22
13	179	51	56	87	62	338	228	62	30	23	22	25
14	185	143	50	89	62	262	192	58	29	23	22	24
15	235	99	47	92	59	232	183	55	29	22	21	24
16	189	69	45	92	58	212	176	52	28	22	21	24
17	176	128	45	84	58	160	174	50	28	22	21	23
18	168	545	44	78	58	139	156	49	27	22	22	23
19	165	185	42	74	76	146	133	48	27	22	22	24
20	164	108	42	69	79	136	120	47	27	22	22	25
21	164	84	39	64	73	127	114	46	27	22	22	24
22	174	71	39	62	75	122	108	42	27	26	22	22
23	138	93	36	59	116	124	103	40	27	25	22	20
24	63	213	44	58	121	142	101	57	27	22	22	22
25	68	133	50	55	102	158	101	56	26	21	22	23
26	108	102	45	54	90	181	100	53	26	20	22	22
27	241	88	42	53	83	205	91	37	24	20	22	22
28	279	84	60	51	79	226	86	36	23	20	22	21
29	191	80	73	53	---	246	85	36	22	20	22	21
30	171	76	69	68	---	250	82	38	23	20	22	21
31	162	---	63	61	---	258	---	39	---	21	22	---
TOTAL	5424	3468	1691	2816	2280	5251	5090	2065	930	683	664	673
MEAN	175	116	54.5	90.8	81.4	169	170	66.6	31.0	22.0	21.4	22.4
MAX	279	545	73	236	161	338	300	205	41	26	23	25
MIN	63	48	36	50	55	67	82	36	22	20	19	20
AC-FT	10760	6880	3350	5590	4520	10420	10100	4100	1840	1350	1320	1330

CAL YR 1965 TOTAL 171294 MEAN 469 MAX 3600 MIN 36 AC-FT 339800
WTR YR 1966 TOTAL 31035 MEAN 85.0 MAX 545 MIN 19 AC-FT 61560

11417000 SOUTH YUBA RIVER NEAR WASHINGTON, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	20	333	53	498	87	185	142	1040	2760	26	24
2	21	20	822	52	344	87	181	165	295	2540	26	24
3	23	20	589	50	272	87	178	192	407	2260	26	24
4	23	20	290	52	238	82	176	238	456	1780	26	25
5	24	20	939	54	224	78	176	244	820	1160	25	26
6	50	38	817	50	208	76	203	288	1560	1280	24	25
7	58	36	473	50	201	75	226	398	1980	851	24	25
8	56	28	298	49	190	76	218	504	1900	292	24	25
9	51	24	220	48	176	77	224	550	2200	633	24	24
10	52	23	250	48	178	86	230	554	2210	511	23	24
11	34	24	208	48	172	122	210	350	2160	252	23	25
12	29	23	170	49	181	111	194	298	2220	158	23	24
13	28	23	160	49	187	107	201	285	2440	163	23	24
14	27	25	160	50	178	103	218	368	2410	288	23	23
15	25	50	130	50	146	123	208	484	2730	260	22	23
16	26	211	121	50	133	2090	181	582	3090	226	23	22
17	27	78	112	50	125	1440	196	629	3550	127	22	23
18	26	54	106	48	122	728	196	571	3760	92	21	33
19	28	52	101	47	115	462	224	568	3710	88	21	26
20	28	461	98	129	106	374	230	714	2730	83	22	25
21	24	256	92	1460	101	365	179	813	2280	51	22	22
22	23	180	85	572	98	359	172	813	3420	47	25	22
23	19	85	79	278	96	434	156	718	3090	45	25	22
24	19	71	74	240	93	341	167	669	2630	42	25	22
25	19	59	70	194	94	275	165	1010	2680	39	25	22
26	20	54	68	212	90	242	158	2190	3070	37	25	22
27	20	50	68	326	87	220	179	2270	3000	30	25	22
28	20	211	61	495	86	230	158	2320	2760	30	25	22
29	20	567	59	1660	---	220	145	2100	2680	29	25	22
30	20	213	58	1040	---	206	140	2050	2790	28	24	22
31	20	---	55	858	---	197	---	1930	---	28	24	---
TOTAL	881	2996	7166	8411	4739	9560	5674	25007	70068	16210	741	714
MEAN	28.4	99.9	231	271	169	308	189	807	2336	523	23.9	23.8
MAX	58	567	939	1660	498	2090	230	2320	3760	2760	26	33
MIN	19	20	55	47	86	75	140	142	295	28	21	22
AC-FT	1750	5940	14210	16680	9400	18960	11250	49600	139000	32150	1470	1420

CAL YR 1966 TOTAL 31495 MEAN 86.3 MAX 939 MIN 19 AC-FT 62470
WTR YR 1967 TOTAL 152167 MEAN 417 MAX 3760 MIN 19 AC-FT 301800

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	22	40	55	71	210	174	61	33	28	18	20
2	52	21	37	52	134	197	156	60	32	22	18	20
3	70	22	44	47	218	185	140	58	31	21	17	19
4	32	22	84	45	163	179	132	58	31	21	16	20
5	30	22	285	43	160	176	127	53	34	21	16	20
6	29	21	81	42	181	163	120	52	38	20	17	20
7	27	21	110	41	187	160	114	50	51	20	17	21
8	26	21	71	41	170	192	112	48	38	20	16	20
9	26	22	58	44	220	181	112	48	34	20	16	20
10	26	22	55	98	197	156	116	46	33	20	16	20
11	26	23	53	73	165	143	116	45	32	23	16	20
12	26	23	50	59	167	140	110	45	31	21	16	20
13	26	24	44	57	172	169	103	51	31	20	16	20
14	24	36	35	66	143	174	99	54	29	18	18	20
15	26	28	44	744	127	170	101	52	28	19	19	20
16	32	30	42	443	158	220	96	51	28	19	19	19
17	43	26	39	192	607	210	85	45	27	18	22	19
18	36	28	46	125	338	183	78	43	27	18	21	19
19	32	59	44	105	722	169	77	42	26	18	56	19
20	31	41	41	92	1200	161	75	44	25	18	43	19
21	28	32	39	90	1240	160	72	43	25	18	28	20
22	29	29	39	99	795	161	71	42	25	17	26	20
23	22	29	46	98	983	163	68	44	24	17	24	21
24	22	28	73	95	644	165	68	41	38	17	22	20
25	21	27	95	90	428	196	68	42	36	17	22	20
26	21	26	118	85	326	199	68	41	35	17	22	20
27	21	27	148	81	310	160	67	38	32	17	24	20
28	23	32	110	75	266	167	65	36	32	17	22	20
29	24	38	82	75	232	185	65	36	31	17	22	19
30	22	45	69	77	---	194	63	34	30	17	21	19
31	22	---	60	78	---	181	---	34	---	18	20	---
TOTAL	897	847	2182	3407	10724	5469	2918	1437	947	594	666	594
MEAN	28.9	28.2	70.4	110	370	176	97.3	46.4	31.6	19.2	21.5	19.8
MAX	70	59	285	744	1240	220	174	61	51	28	56	21
MIN	21	21	35	41	71	140	63	34	24	17	16	19
AC-FT	1780	1680	4330	6760	21270	10850	5790	2850	1880	1180	1320	1180

CAL YR 1967 TOTAL 145050 MEAN 397 MAX 3760 MIN 21 AC-FT 287700
WTR YR 1968 TOTAL 30682 MEAN 83.8 MAX 1240 MIN 16 AC-FT 60860

11417000 SOUTH YUBA RIVER NEAR WASHINGTON, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	27	54	90	300	187	453	354	2890	77	32	21
2	20	60	50	87	274	179	393	328	2740	73	32	21
3	20	225	47	94	260	170	322	305	2420	65	34	22
4	20	113	47	126	244	162	300	285	2760	55	32	22
5	21	60	46	132	250	162	558	348	2670	50	30	22
6	21	46	44	132	242	160	402	441	2570	50	27	22
7	21	40	44	131	224	150	308	484	2360	50	26	22
8	21	37	46	124	214	135	276	554	2140	54	28	22
9	20	35	47	106	232	129	268	642	1950	47	27	23
10	20	34	142	93	244	124	270	946	1560	44	27	23
11	21	35	188	128	340	117	328	1610	1070	43	26	23
12	80	192	102	204	387	114	411	1860	767	43	26	22
13	66	81	82	981	288	112	369	1840	1050	42	25	22
14	58	60	135	700	276	112	312	2750	1040	41	24	22
15	44	70	261	335	426	118	264	2800	1230	40	24	23
16	34	68	179	234	354	135	264	2810	1670	40	24	23
17	30	62	118	186	295	165	310	3200	1690	39	24	23
18	28	87	95	205	268	196	441	3650	1250	38	24	23
19	26	85	85	2150	246	191	378	3550	1060	38	24	23
20	26	64	73	4370	236	195	381	3100	945	37	24	24
21	25	54	66	3710	216	212	444	3010	940	37	24	24
22	25	49	64	1610	198	212	487	3260	730	37	24	24
23	25	46	81	755	196	238	501	3490	484	36	24	24
24	25	53	330	519	195	240	384	3650	508	36	23	24
25	24	57	310	1700	186	246	310	3240	504	36	23	24
26	24	50	182	2340	177	272	285	2950	345	35	23	24
27	24	47	129	849	167	328	288	3040	244	35	23	24
28	24	44	122	602	196	381	322	2700	200	35	22	24
29	28	43	112	465	---	426	381	2270	160	34	22	25
30	38	48	100	387	---	471	372	2640	90	34	22	26
31	29	---	91	342	---	501	---	2650	---	34	22	---
TOTAL	908	1972	3472	23887	7131	6540	10782	64757	40037	1355	792	691
MEAN	29.3	65.7	112	771	255	211	359	2089	1335	43.7	25.5	23.0
MAX	80	225	330	4370	426	501	558	3650	2890	77	34	26
MIN	20	27	44	87	167	112	264	285	90	34	22	21
AC-FT	1800	3910	6890	47380	14140	12970	21390	128400	79410	2690	1570	1370

CAL YR 1968 TOTAL 33108 MEAN 90.5 MAX 1240 MIN 16 AC-FT 65670
WTR YR 1969 TOTAL 162324 MEAN 445 MAX 4370 MIN 20 AC-FT 322000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	32	31	112	349	302	70	88	45	34	27	24
2	24	28	30	105	305	236	68	79	45	34	27	25
3	24	26	30	98	278	184	65	73	44	35	27	26
4	23	24	30	93	258	177	61	69	43	34	27	26
5	24	49	29	84	243	170	59	66	42	34	27	26
6	24	93	29	86	229	167	58	64	41	34	26	26
7	24	70	29	85	213	165	57	62	39	34	26	26
8	28	62	35	115	204	234	56	61	42	35	26	26
9	30	51	38	496	195	202	54	67	58	35	26	25
10	26	46	42	606	189	186	57	63	108	36	27	23
11	24	45	84	315	186	174	59	67	89	37	27	27
12	24	46	71	407	226	167	58	68	78	37	25	27
13	24	45	116	908	235	179	59	69	58	36	25	24
14	28	44	67	1840	225	204	63	67	47	35	26	25
15	84	46	50	890	210	189	62	61	45	34	27	25
16	145	51	44	3400	265	174	64	59	45	34	27	25
17	107	42	43	2720	345	163	66	58	42	30	26	24
18	56	38	40	1630	275	150	66	56	40	29	27	24
19	45	37	250	1490	230	135	78	54	38	29	26	24
20	40	38	630	2180	208	126	75	53	36	30	26	24
21	37	37	1090	8400	192	119	69	53	36	29	26	25
22	35	35	360	7690	180	116	67	53	36	29	26	25
23	33	34	497	4540	172	112	66	53	35	29	26	24
24	32	35	1610	4630	165	108	66	51	33	29	27	24
25	32	35	1040	2230	156	101	63	47	33	29	25	25
26	33	34	441	1990	152	94	69	48	34	29	24	24
27	37	34	266	1590	157	88	77	47	35	29	25	24
28	35	33	193	900	235	83	72	46	36	28	25	24
29	34	33	160	638	---	81	74	45	36	27	25	25
30	33	32	138	456	---	80	84	47	35	26	25	24
31	35	---	124	405	---	75	---	46	---	27	24	---
TOTAL	1204	1255	7637	51129	6277	4741	1962	1840	1374	987	806	746
MEAN	38.8	41.8	246	1649	224	153	65.4	59.4	45.8	31.8	26.0	24.9
MAX	145	93	1610	8400	349	302	84	88	108	37	27	27
MIN	23	24	29	84	152	75	54	45	33	26	24	23
AC-FT	2390	2490	15150	101400	12450	9400	3890	3650	2730	1960	1600	1480

CAL YR 1969 TOTAL 166068 MEAN 455 MAX 4370 MIN 21 AC-FT 329400
WTR YR 1970 TOTAL 79958 MEAN 219 MAX 8400 MIN 23 AC-FT 158600

11417100 POORMAN CREEK NEAR WASHINGTON, CALIF.

LOCATION.--Lat 39°21'36", long 120°48'24", in SW¼ sec.1, T.17 N., R.10 E., Nevada County, Tahoe National Forest, on left bank just downstream from U.S. Forest Service road bridge, 0.4 mile west of Washington and 1.4 miles downstream from Deadman Creek.

DRAINAGE AREA.--23.1 sq mi.

PERIOD OF RECORD.--July 1961 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 2,600 ft (from topographic map).

AVERAGE DISCHARBE.--9 years, 67.0 cfs (48,540 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (500 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
May 10, 1966	0530	*199	4.41	Feb. 20, 1968	0100	*758	5.94	Dec. 21, 1969	1315	804	6.06
				Feb. 21, 1968	0745	614	5.53	Dec. 24, 1969	0515	844	6.16
Dec. 2, 1966	2115	509	5.44					Jan. 14, 1970	1200	1,040	6.66
Jan. 21, 1967	1615	734	5.82	Jan. 13, 1969	1915	556	5.39	Jan. 16, 1970	0815	1,750	7.96
Jan. 29, 1967	0800	965	6.39	Jan. 20, 1969	1545	*1,980	8.31	Jan. 21, 1970	2000	*2,520	9.02
Mar. 16, 1967	1815	*1,080	6.64	Jan. 26, 1969	0330	1,730	7.94	Jan. 24, 1970	0115	1,390	7.37
								Jan. 27, 1970	0615	756	5.94

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Aug. 19, 1966	7.9	1969	Oct. 3, 1968	7.4
1967	Oct. 10, 11, 1966	8.4	1970	Sept.30, 1970	7.2
1968	Sept.29, 1968	7.3			

Period of record: Maximum discharge, 6,090 cfs Dec. 22, 1964 (gage height, 12.52 ft in gage well, 13.5 ft, from floodmarks), from rating curve extended above 1,700 cfs on basis of slope-area measurement at gage height 10.95 ft; minimum, 5.9 cfs Oct. 4, 1961.

REMARKS.--Records good. No known diversion or storage above station. See schematic diagram of Yuba River basin elsewhere in this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SFP
1	11	11	22	25	30	35	110	88	28	15	10	8.3
2	11	11	22	23	29	32	111	89	28	16	9.8	8.2
3	11	11	22	22	28	30	111	90	27	15	9.4	8.1
4	11	11	22	34	32	29	108	90	26	15	9.0	8.1
5	11	11	21	87	66	29	110	89	25	14	9.0	8.0
6	11	11	20	104	82	30	111	84	26	14	8.8	8.0
7	11	11	19	83	59	48	110	82	27	14	8.8	8.0
8	11	18	19	72	49	48	106	80	26	14	8.8	8.1
9	11	13	18	63	42	69	105	82	24	14	8.6	8.1
10	11	12	18	54	38	118	157	114	24	14	8.4	8.0
11	11	12	18	47	34	87	126	88	22	13	8.4	8.1
12	10	12	20	43	32	76	122	78	22	13	8.4	8.3
13	11	16	18	42	31	115	106	72	21	13	8.3	8.8
14	14	47	17	43	29	94	99	68	20	13	8.2	9.2
15	19	28	16	45	28	86	101	63	20	13	8.2	9.0
16	13	17	17	45	27	80	108	58	19	12	8.1	8.8
17	12	45	16	41	27	68	118	54	18	12	8.1	8.6
18	12	143	16	38	27	64	111	51	18	12	8.0	9.0
19	12	54	16	36	33	65	97	48	18	12	7.9	9.4
20	11	32	16	33	33	60	89	46	18	11	8.1	9.2
21	11	24	16	31	33	56	87	44	18	11	8.2	9.0
22	11	20	16	30	34	54	86	41	18	11	8.1	9.0
23	11	29	15	29	46	54	89	38	18	11	8.1	8.9
24	11	81	20	28	48	58	95	36	17	10	8.1	8.6
25	11	44	21	27	42	62	101	34	17	10	8.1	8.6
26	11	32	19	26	37	67	102	33	17	10	8.2	8.6
27	11	29	18	25	35	74	97	32	17	10	8.2	8.4
28	11	27	30	25	34	82	94	30	16	10	8.2	8.4
29	11	26	34	26	---	88	90	30	16	10	8.2	8.2
30	11	24	31	32	---	95	89	30	16	10	8.3	8.2
31	11	---	29	30	---	101	---	29	---	10	8.4	---
TOTAL	356	862	622	1289	1065	2054	3146	1891	627	382	262.4	255.2
MEAN	11.5	28.7	20.1	41.6	38.0	66.3	105	61.0	20.9	12.3	8.46	8.51
MAX	19	143	34	104	82	118	157	114	28	16	10	9.4
MIN	10	11	15	22	27	29	86	29	16	10	7.9	8.0
AC-FT	706	1710	1230	2560	2110	4070	6240	3750	1240	758	520	506

CAL YR 1965 TOTAL 25511.0 MEAN 69.9 MAX 688 MIN 10 AC-FT 50600
WTR YR 1966 TOTAL 12811.6 MEAN 35.1 MAX 157 MIN 7.9 AC-FT 25410

11417100 POORMAN CREEK NEAR WASHINGTON, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	8.6	126	29	278	58	127	96	160	64	21	14
2	8.7	8.6	270	28	210	57	122	104	143	59	20	14
3	8.7	8.6	202	28	179	58	122	110	139	55	20	14
4	8.5	8.6	116	27	156	54	125	123	151	52	20	14
5	8.5	8.6	302	28	143	51	125	133	185	47	20	14
6	8.6	15	303	26	133	50	137	136	176	45	19	14
7	8.6	12	178	25	126	50	143	165	176	42	19	13
8	8.6	11	127	25	118	51	139	190	172	41	19	13
9	8.5	10	99	25	110	53	139	199	167	40	18	13
10	8.4	10	105	24	107	58	139	216	164	39	18	13
11	8.4	11	91	24	104	67	130	174	160	37	18	13
12	8.5	11	77	24	105	67	125	160	173	36	18	13
13	8.7	11	73	24	106	64	126	154	176	34	17	12
14	8.7	12	71	25	101	63	129	161	165	33	17	12
15	8.8	26	62	25	92	75	123	185	161	32	17	12
16	8.8	62	58	25	87	750	115	214	167	32	17	12
17	8.7	29	54	23	82	530	118	232	165	31	16	13
18	8.7	19	51	23	79	342	120	232	169	30	16	18
19	8.7	23	48	22	76	258	118	238	161	28	16	14
20	8.7	145	46	43	72	222	110	262	148	28	16	12
21	8.8	84	44	509	68	214	108	288	140	27	16	12
22	8.9	58	42	228	66	206	104	285	129	26	15	12
23	8.9	31	40	123	64	226	106	275	118	26	15	12
24	8.7	24	38	106	63	197	110	265	110	25	15	12
25	8.7	21	37	87	63	179	108	244	102	24	15	12
26	8.8	19	35	99	58	165	104	232	95	24	15	12
27	8.9	18	34	153	57	151	107	222	88	24	15	12
28	8.9	60	33	252	57	146	102	210	82	23	15	12
29	8.9	138	32	682	---	140	98	197	76	23	14	12
30	8.6	54	31	481	---	136	95	187	70	22	14	12
31	8.6	---	30	436	---	132	---	179	---	22	14	---
TOTAL	269.0	957.0	2855	3679	2960	4870	3574	6068	4288	1071	525	387
MEAN	8.68	31.9	92.1	119	106	157	119	196	143	34.5	16.9	12.9
MAX	8.9	145	303	682	278	750	143	288	185	64	21	18
MIN	8.4	8.6	30	22	57	50	95	96	70	22	14	12
AC-FT	534	1900	5660	7300	5870	9660	7090	12040	8510	2120	1040	768

CAL YR 1966 TOTAL 15052.6 MEAN 41.2 MAX 303 MIN 7.9 AC-FT 29860
WTR YR 1967 TOTAL 31503.0 MEAN 86.3 MAX 750 MIN 8.4 AC-FT 62490

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	12	16	20	26	113	99	81	28	13	10	8.7
2	32	11	15	18	37	105	89	79	26	13	9.6	8.6
3	33	11	17	17	66	99	85	79	26	13	9.4	8.6
4	16	11	35	17	56	94	84	77	25	13	9.3	8.5
5	16	11	64	16	57	92	83	73	26	12	9.0	8.4
6	16	12	25	16	63	83	79	68	29	12	8.6	8.3
7	15	11	40	15	67	80	78	64	35	12	8.5	8.2
8	14	11	26	16	66	84	79	61	27	11	8.4	8.1
9	13	11	20	16	91	77	83	59	24	11	8.4	8.1
10	13	12	19	46	91	71	91	57	23	11	8.2	8.0
11	13	11	18	29	70	67	96	56	22	11	8.2	8.0
12	13	11	17	24	66	65	95	54	21	11	8.2	7.9
13	13	11	14	23	79	74	91	56	20	11	8.3	7.9
14	12	18	14	43	67	78	91	53	20	11	8.7	8.0
15	12	14	17	278	59	77	90	51	19	11	8.9	8.1
16	12	12	15	126	62	94	86	47	18	11	9.0	7.8
17	12	12	15	58	222	94	77	45	17	11	10	7.6
18	12	15	17	44	169	84	73	43	17	10	9.6	7.6
19	12	26	17	36	222	78	73	43	17	10	39	7.6
20	12	17	16	32	474	76	71	45	16	10	20	7.8
21	12	14	15	31	464	75	69	43	16	9.9	12	7.8
22	13	13	16	32	313	76	66	43	16	9.8	11	7.8
23	13	13	19	32	372	75	66	41	15	9.7	11	7.6
24	12	12	24	30	256	74	67	38	15	9.6	10	7.6
25	12	12	32	28	205	89	70	42	15	9.5	9.8	7.5
26	12	12	40	28	172	88	74	37	14	9.4	9.6	7.5
27	12	13	46	26	150	81	77	35	14	9.3	9.5	7.4
28	12	14	37	26	136	83	79	33	14	9.4	9.5	7.4
29	12	17	30	26	123	92	81	31	13	9.6	9.2	7.3
30	12	16	24	20	---	99	83	30	13	9.7	9.0	7.4
31	12	---	21	31	---	100	---	29	---	10	8.8	---
TOTAL	437	396	741	1200	4301	2617	2425	1593	601	333.9	328.7	237.1
MEAN	14.1	13.2	23.9	38.7	148	84.4	80.8	51.4	20.0	10.8	10.6	7.90
MAX	33	26	64	278	474	113	99	81	35	13	39	8.7
MIN	12	11	14	15	26	65	66	29	13	9.3	8.2	7.3
AC-FT	867	785	1470	2380	8530	5190	4810	3160	1190	662	652	470

CAL YR 1967 TOTAL 28996.0 MEAN 79.4 MAX 750 MIN 11 AC-FT 57510
WTR YR 1968 TOTAL 15210.7 MEAN 41.6 MAX 474 MIN 7.3 AC-FT 30170

11417100 POORMAN CREEK NEAR WASHINGTON, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	10	22	35	160	94	222	179	148	33	14	11
2	7.5	26	19	34	142	90	205	172	138	31	14	11
3	7.4	91	18	36	132	87	179	163	131	30	14	11
4	7.5	37	18	47	125	84	166	152	124	29	14	11
5	7.6	20	17	51	125	84	234	170	113	28	13	11
6	7.7	16	17	51	121	85	193	202	103	27	13	10
7	7.7	14	17	48	109	82	167	224	96	27	13	11
8	7.6	13	17	44	103	79	156	246	94	27	13	11
9	7.6	13	17	38	112	77	150	268	87	25	13	11
10	7.6	12	50	34	119	74	148	274	80	24	13	10
11	8.3	14	60	43	155	72	160	286	80	23	13	10
12	33	62	34	64	182	71	175	284	73	22	12	10
13	28	26	28	325	141	69	174	263	69	21	12	10
14	21	21	42	297	134	70	163	241	65	21	12	10
15	14	23	97	144	191	73	148	222	61	20	12	10
16	12	22	64	104	167	81	145	221	59	20	12	10
17	11	20	41	82	144	90	154	233	56	19	12	10
18	10	39	33	87	133	101	194	239	66	19	12	10
19	9.9	33	30	697	123	100	179	225	62	18	12	10
20	9.7	24	26	1590	116	101	184	207	54	18	12	10
21	9.6	20	24	1520	109	109	207	207	49	17	12	11
22	9.5	19	23	765	102	111	219	212	46	17	11	10
23	9.4	18	29	421	101	120	224	218	44	17	11	10
24	9.2	22	102	316	101	121	188	210	43	16	11	10
25	9.2	22	127	703	97	124	164	195	41	16	11	10
26	9.2	19	71	1020	93	135	153	185	40	15	11	10
27	9.1	18	50	488	87	153	150	186	38	15	11	10
28	9.1	17	48	348	98	173	159	170	37	15	11	10
29	11	16	44	256	---	191	175	163	36	15	11	9.9
30	13	19	40	210	---	214	180	160	34	15	11	9.9
31	11	---	36	176	---	231	---	157	---	14	11	---
TOTAL	341.9	726	1261	10074	3522	3346	5315	6534	2167	654	377	308.8
MEAN	11.0	24.2	40.7	325	126	108	177	211	72.2	21.1	12.2	10.3
MAX	33	91	127	1590	191	231	234	286	148	33	14	11
MIN	7.4	10	17	34	87	69	145	152	34	14	11	9.9
AC-FT	678	1440	2500	19980	6990	6640	10540	12960	4300	1300	748	613

CAL YR 1968 TOTAL 15965.6 MEAN 43.6 MAX 474 MIN 7.3 AC-FT 31670
WTR YR 1969 TOTAL 34626.7 MEAN 94.9 MAX 1590 MIN 7.4 AC-FT 68680

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	11	11	53	169	130	63	57	24	15	11	8.9
2	10	11	11	47	152	105	62	57	22	14	11	8.9
3	10	11	11	43	140	96	60	56	22	14	10	8.9
4	10	11	11	40	132	91	59	56	21	14	10	8.9
5	10	22	11	37	123	88	59	57	20	13	10	9.3
6	10	29	11	35	115	87	59	59	20	13	10	9.3
7	10	21	11	34	108	84	59	58	19	13	10	9.1
8	11	18	13	39	102	100	59	59	20	13	10	9.0
9	12	15	13	125	98	93	58	59	31	13	10	8.8
10	11	14	15	188	95	92	58	60	32	13	9.9	8.6
11	10	14	24	109	93	87	62	57	23	13	9.8	8.8
12	10	15	24	125	115	85	59	56	21	13	9.6	8.7
13	10	14	43	291	120	89	60	55	20	12	9.5	8.9
14	11	14	22	615	116	98	61	52	21	12	9.4	8.9
15	31	14	17	356	107	93	57	50	20	12	9.4	8.8
16	52	17	15	1150	114	88	56	51	20	12	9.3	8.8
17	33	15	15	907	158	86	54	53	19	12	9.3	8.5
18	19	13	14	494	122	80	53	52	18	12	9.3	8.3
19	15	13	87	420	109	76	59	49	17	12	9.3	8.5
20	13	13	224	434	101	74	53	47	16	11	9.2	8.6
21	13	13	414	1520	96	73	50	44	16	11	9.1	8.6
22	12	12	140	1180	91	73	48	42	16	11	9.1	8.2
23	12	12	202	670	88	73	46	40	15	11	9.1	8.1
24	12	12	617	868	82	74	46	37	15	11	9.1	8.0
25	12	12	390	524	78	74	47	35	15	11	9.0	7.7
26	12	12	194	379	76	72	52	34	16	11	9.0	7.5
27	12	12	127	542	82	68	50	33	16	11	9.0	7.5
28	12	12	98	346	120	67	47	31	16	11	9.0	7.4
29	12	12	80	272	---	68	47	29	17	11	9.0	7.3
30	11	11	68	227	---	68	52	27	16	11	9.0	7.2
31	11	---	59	192	---	65	---	25	---	11	8.9	---
TOTAL	439	425	2992	12262	3102	2597	1655	1477	584	377	295.3	254.0
MEAN	14.2	14.2	96.5	396	111	83.8	55.2	47.6	19.5	12.2	9.53	8.47
MAX	52	29	617	1520	169	130	63	60	32	15	11	9.3
MIN	10	11	11	34	76	65	46	25	15	11	8.9	7.2
AC-FT	871	843	5930	24320	6150	5150	3280	2930	1160	748	586	504

CAL YR 1969 TOTAL 36153.8 MEAN 99.1 MAX 1590 MIN 9.9 AC-FT 71710
WTR YR 1970 TOTAL 26459.3 MEAN 72.5 MAX 1520 MIN 7.2 AC-FT 52480

11417500 SOUTH YUBA RIVER AT JONES BAR, NEAR GRASS VALLEY, CALIF.

LOCATION.--Lat 39°17'32", long 121°06'13", near center sec.32, T.17 N., R.8 E., Nevada County, on left bank at Jones Bar, 100 ft upstream from Rush Creek, 0.9 mile downstream from bridge on State Highway 49, and 5 miles northwest of Grass Valley.

DRAINAGE AREA.--308 sq mi.

PERIOD OF RECORD.--October 1940 to September 1948, April 1959 to September 1970. Published as South Fork Yuba River at Jones Bar 1940-48 and as "at Jones Bar" 1959-60.

GAGE.--Water-stage recorder. Altitude of gage is 1,060 ft (from river-profile map). Oct. 1, 1940, to Sept. 30, 1948, at site 150 ft upstream at datum 2.00 ft higher.

AVERAGE DISCHARGE.--19 years, 490 cfs (355,000 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 5, 1966	1,360	7.63	Sept. 7, 8, 11, 1966	12
1967	Jan. 21, 1967	9,810	13.64	Oct. 1, 2, 1966	14
1968	Feb. 20, 1968	4,480	10.76	Sept.18-21, 1968	36
1969	Jan. 20, 1969	13,800	15.17	Oct. 1, 1968	40
1970	Jan. 22, 1970	18,200	16.68	Sept. 6, 1970	42

Period of record: Maximum discharge, 53,600 cfs Dec. 22, 1964 (gage height, 25.0 ft, from floodmarks), from rating curve extended above 23,000 cfs on basis of slope-area measurement of peak flow; minimum, 1.0 cfs Sept. 10-13, 1944.

Flood of Dec. 23, 1955, reached a stage of 28.7 ft, from floodmarks (at site 100 ft upstream at datum 2.00 ft lower).

REMARKS.--Records good except those for periods of no gage-height record, which are poor. Flow regulated by Lake Spaulding (see station 11414040), Fordyce Lake (capacity, 46,700 acre-ft), Bowman Lake (see station 11415500), and by many smaller reservoirs. Diversions into and out of basin for several powerhouses and for irrigation of about 20,000 acres by Nevada Irrigation District. See schematic diagram of Yuba River basin elsewhere in this report. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

REVISIONS (WATER YEARS).--WSP 1315-A: 1942-43(M), drainage area at former site. WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	176	152	143	236	170	236	512	223	80	34	23	25
2	186	149	128	182	165	226	522	214	80	34	22	32
3	187	150	126	159	160	205	487	214	80	34	21	36
4	189	150	126	493	190	196	469	206	80	33	19	26
5	179	145	124	1250	360	192	445	205	78	32	19	15
6	176	124	120	856	460	194	436	196	75	28	18	13
7	203	75	116	603	350	262	421	184	78	28	18	12
8	184	79	112	487	290	322	400	181	79	28	19	12
9	182	95	107	430	250	328	385	178	77	28	19	13
10	184	77	106	360	240	714	582	284	74	28	21	13
11	182	71	106	303	230	586	662	342	70	29	24	12
12	181	70	139	268	217	466	674	306	69	28	24	13
13	178	77	121	250	201	678	533	199	66	28	24	14
14	241	203	108	245	189	630	451	159	61	28	25	20
15	258	216	99	255	182	544	418	146	60	28	25	19
16	208	123	95	260	173	550	412	135	54	27	24	18
17	196	137	92	240	168	445	421	126	50	25	24	17
18	187	924	91	230	168	397	412	120	47	24	24	17
19	176	623	88	215	205	415	355	115	46	24	24	20
20	160	246	87	205	242	382	322	110	45	24	22	20
21	163	168	87	190	214	358	306	103	44	23	21	20
22	171	136	85	180	210	340	292	99	44	22	21	18
23	140	152	81	175	268	328	284	95	44	27	21	16
24	75	689	138	170	348	345	286	91	45	25	20	14
25	74	448	314	165	308	362	282	99	44	20	21	14
26	95	264	147	160	282	385	282	99	42	19	21	17
27	241	199	119	155	254	415	258	90	42	18	22	17
28	297	171	317	150	236	451	238	77	39	18	23	16
29	197	157	519	150	---	472	232	76	36	18	21	14
30	170	149	451	190	---	484	226	77	34	18	21	14
31	160	---	397	180	---	496	---	79	---	21	23	---
TOTAL	5596	6419	4889	9392	6730	12404	12005	4828	1763	801	674	527
MEAN	181	214	158	303	240	400	400	156	58.8	25.8	21.7	17.6
MAX	297	924	519	1250	460	714	674	342	80	34	25	36
MIN	74	70	81	150	160	192	226	76	34	18	18	12
AC-FT	11100	12730	9700	18630	13350	24600	23810	9580	3500	1590	1340	1050

CAL YR 1965 TOTAL 246552 MEAN 675 MAX 5900 MIN 58 AC-FT 489000
WTR YR 1966 TOTAL 66028 MEAN 181 MAX 1250 MIN 12 AC-FT 131000

11417500 SOUTH YUBA RIVER AT JONES BAR, NEAR GRASS VALLEY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	20	598	127	2020	248	678	606	1550	4200	80	52
2	14	19	2180	124	1410	244	654	600	450	3850	78	51
3	16	20	1830	120	1090	244	650	572	620	3350	76	51
4	17	20	833	117	910	238	646	642	710	2550	74	52
5	17	19	2540	126	797	223	678	714	1350	1800	72	55
6	18	53	2190	118	710	217	1060	734	2400	1920	70	52
7	54	96	1340	115	650	214	1120	869	3000	1200	70	50
8	61	50	851	112	578	214	896	1020	2950	470	70	50
9	58	43	600	110	550	214	828	882	3400	950	69	50
10	61	42	579	108	516	223	815	1040	3400	638	68	50
11	51	42	544	107	502	415	820	985	3300	400	66	50
12	36	43	425	108	483	559	726	869	3500	244	66	50
13	33	44	368	108	490	512	698	802	3650	250	64	50
14	31	50	372	106	487	424	726	810	3700	440	62	51
15	31	120	328	107	436	487	722	842	4250	385	62	55
16	28	472	292	107	403	4980	654	1080	4750	345	60	55
17	30	159	272	106	382	3710	765	1160	5500	209	60	54
18	30	117	252	103	368	1920	874	970	5700	184	58	68
19	30	142	238	101	355	1430	828	1000	5700	171	57	67
20	32	1100	224	494	325	1150	802	1100	5500	163	57	55
21	30	849	213	5790	308	1050	730	1240	3600	142	55	52
22	29	631	199	2860	295	1000	662	1240	5100	117	54	50
23	28	256	186	1090	286	1180	730	1090	4550	112	56	50
24	27	163	176	955	281	1020	802	1050	4050	107	56	51
25	19	133	168	792	292	860	730	1550	4250	104	55	50
26	19	115	163	815	274	766	678	3350	4600	101	56	50
27	22	106	152	1040	258	690	710	3450	4500	96	57	48
28	22	215	146	1560	252	678	662	3580	4150	91	54	48
29	22	1190	139	4450	---	674	622	3350	4100	87	53	47
30	22	497	138	3150	---	654	575	3100	4250	86	52	47
31	22	---	131	3650	---	726	---	2950	---	83	53	---
TOTAL	924	6826	18667	28776	15708	27164	22541	43247	108530	24845	1940	1561
MEAN	29.8	228	602	928	561	876	751	1395	3618	801	62.6	52.0
MAX	61	1190	2540	5790	2020	4980	1120	3580	5700	4200	80	68
MIN	14	19	131	101	252	214	575	572	450	83	52	47
AC-FT	1830	13540	37030	57080	31160	53880	44710	85780	215300	49280	3850	3100

CAL YR 1966 TOTAL 75541 MEAN 207 MAX 2540 MIN 12 AC-FT 149800
WTR YR 1967 TOTAL 300729 MEAN 824 MAX 5790 MIN 14 AC-FT 596500

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	53	109	125	217	558	442	203	92	66	46	42
2	75	52	89	115	400	516	415	196	90	64	45	42
3	196	52	118	106	626	481	370	190	88	58	42	42
4	84	53	202	102	475	457	358	187	88	56	42	41
5	70	54	651	99	451	442	348	179	89	53	40	41
6	69	54	224	95	487	418	330	170	105	52	40	41
7	66	53	371	94	519	421	312	163	121	51	40	40
8	64	53	236	93	484	478	306	156	110	50	40	42
9	61	53	157	100	608	463	306	152	95	50	40	40
10	60	54	133	512	670	403	308	146	90	50	40	39
11	60	55	121	274	499	372	320	143	87	50	40	38
12	60	55	116	181	445	368	312	139	86	52	39	38
13	59	56	101	153	623	554	297	154	83	49	38	38
14	58	76	73	176	493	554	284	168	81	48	40	38
15	55	81	98	1700	427	519	280	156	79	47	42	39
16	58	66	106	950	421	840	278	139	77	48	44	39
17	67	66	95	466	1270	856	260	132	74	48	45	37
18	70	70	106	332	1110	670	240	126	72	46	48	36
19	66	114	106	270	1160	558	232	121	72	45	60	36
20	64	113	97	234	2940	493	224	122	69	44	141	36
21	61	79	93	217	2520	463	219	125	69	44	72	36
22	61	70	92	214	1800	448	214	121	68	42	59	38
23	61	67	98	223	1850	433	210	121	65	42	54	38
24	61	66	124	208	1440	424	206	117	66	42	50	38
25	53	65	162	194	1050	433	208	115	75	42	48	40
26	53	63	206	183	842	481	210	115	74	42	46	40
27	53	64	268	187	774	400	210	109	72	42	46	40
28	53	80	228	181	698	406	206	104	69	41	48	42
29	55	108	184	215	614	427	205	99	68	42	46	69
30	55	147	154	303	---	451	208	96	67	42	45	47
31	54	---	136	258	---	439	---	93	---	44	44	---
TOTAL	2030	2092	5054	8560	25913	15226	8318	4357	2441	1492	1510	1213
MEAN	65.5	69.7	163	276	894	491	277	141	81.4	48.1	48.7	40.4
MAX	196	147	651	1700	2940	856	442	203	121	66	141	69
MIN	48	52	73	93	217	368	205	93	65	41	38	36
AC-FT	4030	4150	10020	16980	51400	30200	16500	8640	4840	2960	3000	2410

CAL YR 1967 TOTAL 283488 MEAN 777 MAX 5790 MIN 47 AC-FT 562300
WTR YR 1968 TOTAL 78206 MEAN 214 MAX 2940 MIN 36 AC-FT 155100

11417500 SOUTH YUBA RIVER AT JONES BAR, NEAR GRASS VALLEY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	62	131	252	1050	1220	1180	802	3270	169	62	49
2	41	90	135	234	928	990	1120	774	3190	159	61	48
3	42	473	114	226	851	892	1000	726	2840	149	60	48
4	42	304	107	264	806	810	900	670	2960	136	58	48
5	41	148	105	295	1100	762	1560	682	3000	122	57	49
6	42	106	99	292	1160	754	1330	815	2880	114	56	48
7	44	91	98	284	874	702	1040	896	2660	110	55	49
8	43	82	97	270	774	650	923	970	2420	108	55	49
9	42	78	99	242	914	614	869	1080	2190	112	55	50
10	42	74	228	219	914	582	820	1290	1830	103	54	50
11	44	77	557	362	1370	550	864	1970	1350	100	54	50
12	135	356	262	709	1920	530	960	2310	860	96	54	49
13	157	204	194	3050	1280	512	960	2260	1260	92	54	49
14	115	139	416	2380	1250	496	878	3130	1180	90	53	48
15	100	174	857	1060	2730	502	770	3420	1350	88	52	48
16	78	150	623	702	1950	530	726	3400	1780	85	52	48
17	68	130	330	544	1470	596	762	3920	1950	82	52	48
18	61	152	248	541	1290	674	950	4660	1520	80	52	48
19	59	214	219	4830	1110	670	887	4510	1290	79	52	49
20	57	146	186	11200	1040	666	864	3890	1020	77	52	50
21	55	120	157	10800	928	762	905	3560	1140	75	52	51
22	54	108	147	5680	860	722	1040	3780	1030	75	52	52
23	54	99	176	2740	900	758	1180	4260	779	73	51	52
24	54	115	867	2100	1080	758	1020	4500	533	73	51	52
25	53	130	1520	4770	1080	758	815	4020	746	72	50	51
26	52	114	726	7550	914	797	754	3450	499	69	50	51
27	52	104	430	3210	824	878	726	3470	394	67	51	50
28	52	98	391	2190	1530	1020	726	3340	328	66	51	70
29	57	93	372	1660	---	1080	806	2440	278	65	51	70
30	78	112	310	1380	---	1170	820	3030	217	64	51	49
31	71	---	274	1150	---	1230	---	2960	---	63	51	---
TOTAL	1925	4343	10475	71186	32897	23635	28155	80985	46744	2913	1661	1523
MEAN	62.1	145	338	2296	1175	762	939	2612	1558	94.0	53.6	50.8
MAX	157	473	1520	11200	2730	1230	1560	4660	3270	169	62	70
MIN	40	62	97	219	774	496	726	670	217	63	50	48
AC-FT	3820	8610	20780	141200	65250	46880	55850	160600	92720	5780	3290	3020

CAL YR 1968 TOTAL 85773 MEAN 234 MAX 2940 MIN 36 AC-FT 170100
WTR YR 1969 TOTAL 306442 MEAN 840 MAX 11200 MIN 40 AC-FT 607800

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	68	68	244	1000	1220	257	236	123	90	48	48
2	49	66	68	221	990	895	259	220	119	84	48	46
3	49	65	68	202	878	694	257	208	117	81	48	46
4	48	62	67	191	806	658	250	201	114	77	47	44
5	48	119	66	177	738	618	244	196	111	72	47	44
6	48	226	67	166	674	547	242	194	108	69	46	42
7	49	172	68	163	610	540	239	193	105	67	46	44
8	53	151	80	174	568	991	234	190	105	67	46	46
9	62	118	91	632	530	706	229	198	133	68	46	46
10	60	100	106	1570	496	686	226	197	160	70	46	46
11	54	94	198	738	481	614	231	197	193	73	46	46
12	52	90	186	688	575	568	228	193	154	76	47	46
13	51	88	256	1760	859	561	224	190	151	74	44	48
14	53	85	179	4250	878	564	230	189	135	71	44	48
15	80	82	137	2170	722	568	220	178	126	67	46	48
16	247	84	118	5900	804	516	230	172	120	62	46	48
17	238	95	106	5710	1390	490	230	168	116	66	45	48
18	136	84	100	3280	914	460	240	167	110	57	46	48
19	97	80	340	2370	766	436	250	164	106	55	46	46
20	82	76	1360	3030	670	415	240	158	99	55	44	46
21	75	76	3150	9730	582	397	230	155	95	53	44	48
22	70	75	1110	15600	519	382	230	152	92	50	46	48
23	68	73	985	8360	490	375	240	150	90	50	47	48
24	66	72	3950	9570	469	368	230	146	85	51	48	48
25	66	72	2160	5000	448	358	220	140	85	51	50	48
26	66	70	1060	2000	433	335	210	138	87	50	49	48
27	68	68	642	2000	418	322	220	135	93	48	48	56
28	71	68	460	1800	435	310	220	132	96	48	48	95
29	69	69	372	1600	---	308	230	130	98	48	48	50
30	68	68	315	1400	---	292	230	128	96	48	48	49
31	68	---	272	1200	---	270	---	125	---	47	48	---
TOTAL	2360	2716	18205	91896	19143	16464	7020	5340	3422	1945	1446	1462
MEAN	76.1	90.5	587	2964	684	531	234	172	114	62.7	46.6	48.7
MAX	247	226	3950	15600	1390	1220	259	236	193	90	50	95
MIN	48	62	66	163	418	270	210	125	85	47	44	42
AC-FT	4680	5390	36110	182300	37970	32660	13920	10590	6790	3860	2870	2900

CAL YR 1969 TOTAL 312980 MEAN 857 MAX 11200 MIN 48 AC-FT 620800
WTR YR 1970 TOTAL 171419 MEAN 470 MAX 15600 MIN 42 AC-FT 340000

11418000 YUBA RIVER BELOW ENGLEBRIGHT DAM, NEAR SMARTVILLE, CALIF.

(Formerly published as Yuba River at Englebright Dam)

LOCATION.--Lat 39°14'07", long 121°16'23", in NW¼NW¼ sec.23, T.16 N., R.6 E., Yuba County, on right bank 2,000 ft downstream from Englebright Dam, 0.5 mile upstream from Deer Creek, and 2.3 miles northeast of Smartville. Prior to Oct. 1, 1969, at site 2,000 ft upstream.

DRAINAGE AREA.--1,108 sq mi.

PERIOD OF RECORD.--October 1941 to September 1970. Prior to October 1953, published as "at Narrows Dam" and October 1953 to Sept. 30, 1960, published as "at Englebright Dam." If records for Deer Creek near Smartville (station 11418500) since 1941 are added to records at this station, records equivalent to those published from 1903-41 as Yuba River at Smartville (station 11419000) can be obtained.

GAGE.--Water-stage recorder. Datum of gage is 278.68 ft above mean sea level (levels by International Engineering Co.). Prior to Sept. 19, 1958, at site 2,000 ft upstream at datum 248.31 ft higher and Sept. 19, 1958, to Sept. 30, 1969, at datum 278.68 ft lower. Supplementary gage 2,000 ft upstream since Oct. 1, 1969, at Englebright Dam at datum 278.68 ft lower.

AVERAGE DISCHARGE.--29 years, 2,543 cfs (1,842,000 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (13,000 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Apr. 11, 1966	1000	*6,680	-	Mar. 16, 1967	2400	31,500	-	Jan. 26, 1969	0800	*37,400	-
								Feb. 15, 1969	1630	15,300	-
Dec. 3, 1966	0300	17,000	-	Feb. 21, 1968	1600	*21,400	-				
Dec. 5, 1966	1700	14,000	-					Jan. 21, 1970	2400	94,100	31.50
Jan. 21, 1967	2300	*43,700	-	Jan. 13, 1969	2100	14,400	-				
Jan. 29, 1967	1500	33,100	-	Jan. 20, 1969	1800	34,300					

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Oct. 1, 1965	120	1969	Oct. 4-7, 1968	0
1967	Nov. 12, 13, 1966	245	1970	Sept.23, 1970	224
1968	Nov. 22, 1967	310			

Period of record: Maximum discharge, 171,000 cfs Dec. 22, 1964 (gage height, 546.14 ft, site and datum then in use), no flow through powerplant, from rating curve extended above 25,000 cfs on basis of computation of peak flow over spillway of dam at gage heights 544.72 and 546.14 ft; no flow at times in 1942, 1949, 1956, 1958-61, 1968-69.

REMARKS.--Records good. Diversion for power and irrigation above station. Up to 250 cfs can bypass station and up to 670 cfs can be diverted into Bear River basin. Flow regulated by Lake Spaulding beginning in 1912 (see station 11414140), Jackson Meadows Reservoir (see station 11407800) since November 1964, New Bullards Bar Reservoir (see station 11413515) since January 1969, Englebright Reservoir beginning in 1941 (capacity, 70,000 acre-ft), Bowman Lake (see station 11415000), Fordyce Lake beginning in 1926 (capacity, 46,700 acre-ft), and by many smaller reservoirs. See schematic diagram of Yuba River basin elsewhere in this report. Records given herein for the water years 1966-69 show total flow over Englebright Dam spillway and through and past powerplant.

COOPERATION.--Records of flow through powerplant for the water years 1966-69 furnished by Pacific Gas & Electric Co.

REVISIONS.--WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	650	730	1300	1260	1370	4430	2640	1160	500	500	360
2	260	650	730	1080	1290	1340	4770	2720	1090	500	500	290
3	390	650	730	1000	1140	1260	4520	2860	1040	500	500	300
4	390	650	730	1460	1130	1200	4240	2990	999	500	500	300
5	390	650	730	4220	1410	1160	4000	3180	955	500	500	300
6	400	660	730	3860	2860	1140	4080	3240	933	500	500	300
7	510	660	735	3290	2450	1260	4080	3020	933	500	500	300
8	710	660	740	2490	1900	1540	3980	2990	923	500	500	300
9	710	670	749	2100	1620	1640	3880	2990	901	500	495	300
10	710	665	823	1820	1420	3100	5680	3820	874	500	495	300
11	705	660	846	1660	1300	3520	6260	3820	844	500	500	300
12	705	660	926	1470	1220	2880	5760	3180	798	500	500	310
13	710	660	915	1340	1130	3680	4700	2780	773	500	500	310
14	700	660	887	1260	1090	4210	3980	2640	760	500	500	310
15	695	670	864	1240	1050	3770	3760	2440	728	500	500	310
16	700	675	848	1270	988	3550	3850	2280	708	500	500	310
17	700	670	836	1270	988	2960	4270	2170	700	500	500	310
18	700	670	818	1240	1000	2550	4530	2060	688	500	500	310
19	675	680	813	1170	1050	2540	3790	2020	685	500	480	310
20	650	685	807	1100	1230	2400	3270	2000	690	500	460	300
21	650	690	795	1040	1240	2200	2930	1980	690	500	460	290
22	650	700	768	1000	1220	2120	2860	1920	660	500	460	310
23	640	710	734	976	1290	2010	2830	1820	530	500	430	300
24	640	710	730	943	1680	2060	2960	1720	505	500	390	300
25	650	720	1050	954	1750	2220	3520	1560	505	500	390	310
26	640	725	925	926	1660	2440	3200	1560	500	500	395	300
27	640	725	900	915	1500	2730	3200	1500	500	500	400	300
28	640	735	1130	915	1400	3130	2880	1420	500	500	400	300
29	640	730	2020	959	---	3520	2740	1350	500	500	400	300
30	640	730	1810	1560	---	3820	2640	1300	500	500	400	300
31	640	---	1670	1320	---	4140	---	1240	---	500	400	---
TOTAL	18600	20430	28519	47148	39266	77460	117590	73210	22572	15500	14455	9140
MEAN	600	681	920	1521	1402	2499	3920	2362	752	500	466	305
MAX	710	735	2020	4220	2860	4210	6260	3820	1160	500	500	360
MIN	120	650	730	915	988	1140	2640	1240	500	500	390	290
AC-FT	36890	40520	56570	93520	77880	153600	233200	145200	44770	30740	28670	18130

CAL YR 1965 TOTAL 1103076 MEAN 3022 MAX 34100 MIN 120 AC-FT 2188000

WTR YR 1966 TOTAL 483890 MEAN 1326 MAX 6260 MIN 120 AC-FT 959800

11418000 YUBA RIVER BELOW ENGLEBRIGHT DAM, NEAR SMARTVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	300	350	3530	949	12800	1640	4280	2920	8100	7180	808	1030
2	300	350	8020	943	8260	1640	3800	2920	6040	6680	789	1020
3	300	350	11500	926	6490	1630	3590	3060	5280	6220	796	955
4	305	350	5010	926	5360	1610	3530	3340	5360	5000	783	947
5	330	250	11000	849	4580	1540	3660	3960	6300	3980	777	729
6	350	260	10400	887	4200	1480	5140	4000	7460	3540	771	729
7	350	260	7240	849	3810	1460	5900	4540	7900	3400	765	724
8	350	250	4900	846	3540	1450	4780	5860	7900	2460	742	719
9	350	250	3540	841	3310	1450	4340	7170	8340	2340	718	715
10	360	250	3120	833	3120	1520	4280	7980	8500	2380	703	708
11	355	250	2950	865	3030	2180	4340	6490	8460	2060	901	708
12	330	245	2560	844	2950	2620	3780	5500	8460	1850	1230	692
13	350	245	2270	844	3120	3040	3560	4930	10200	1700	1230	686
14	350	290	2240	836	3200	2570	3600	4820	8780	1690	1210	686
15	345	430	2060	833	2920	2250	3660	5540	9080	1690	1210	635
16	350	265	1870	833	2660	16300	3500	7200	9840	1620	1190	634
17	350	430	1750	833	2660	23100	3540	8450	10700	1540	1150	450
18	345	600	1660	849	2660	12900	4520	8990	11300	1390	1150	450
19	345	590	1580	849	2660	9470	4100	8900	11700	1280	1150	418
20	350	575	1510	1370	2410	7540	3840	9610	10700	1200	1130	472
21	350	490	1460	18400	2180	7020	3570	10700	9300	1140	1130	465
22	350	615	1380	19600	1970	6820	3370	11500	9980	1080	1130	393
23	350	600	1330	6370	1970	7690	3480	11500	9400	1030	1120	393
24	350	605	1270	4860	1970	7440	4130	11500	8100	1000	1120	555
25	350	425	1190	4610	1970	6180	3780	11300	7900	978	1120	410
26	345	660	1160	4420	1960	5430	3570	11600	8500	945	1100	404
27	350	660	1100	5480	1760	4820	3600	11500	8180	912	1090	393
28	350	660	1040	7730	1650	4480	3480	11300	7700	882	1080	393
29	350	4670	1000	23900	---	4380	3160	10200	7440	865	1060	393
30	350	4880	1020	19600	---	4090	3060	9620	7320	849	1050	480
31	350	---	993	20900	---	4510	---	9080	---	824	1050	---
TOTAL	10610	21105	101653	153675	99170	160250	116940	235980	254220	69705	31253	18386
MEAN	342	704	3279	4957	3542	5169	3898	7612	8474	2249	1008	613
MAX	360	4880	11500	23900	12800	23100	5900	11600	11700	7180	1230	1030
MIN	300	245	993	833	1650	1450	3060	2920	5280	824	703	393
AC-FT	21040	41860	201600	304800	196700	317900	232000	468100	504200	138300	61990	36470

CAL YR 1966 TOTAL 549709 MEAN 1506 MAX 11500 MIN 245 AC-FT 1090000
WTR YR 1967 TOTAL 1272947 MEAN 3488 MAX 23900 MIN 245 AC-FT 2525000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	440	465	460	600	1470	3850	3330	2350	1320	490	480	430
2	400	450	450	595	1950	3520	3160	2350	1290	500	485	430
3	450	450	450	600	3260	3240	2810	2350	1260	533	490	405
4	640	440	460	610	2760	3130	2580	2480	1590	610	500	395
5	760	450	505	615	2400	2830	2500	2450	1240	537	500	380
6	740	445	525	620	2270	2830	2400	2300	1170	500	500	345
7	720	445	510	620	2390	2650	2280	2090	1220	490	500	310
8	710	430	510	610	2390	2820	2210	1960	1230	480	500	260
9	600	410	530	585	2420	2740	2210	1960	1160	520	500	260
10	510	360	560	585	3120	2390	2300	1940	1110	650	500	265
11	500	360	530	585	2670	2160	2580	1900	687	700	500	275
12	505	360	545	320	2330	2270	2700	1840	684	700	500	255
13	505	360	560	600	2900	6940	2580	1830	679	650	515	225
14	505	340	550	605	2620	3130	2460	1850	781	600	530	210
15	400	360	510	615	2270	2990	2420	1660	724	590	530	200
16	380	380	520	565	2130	3550	2400	1560	684	575	530	195
17	380	375	540	1830	5300	4310	2220	1500	684	575	530	190
18	400	370	530	2180	7770	3570	2020	1520	672	565	530	180
19	450	380	530	1700	5880	2920	1920	1560	681	550	535	160
20	450	420	580	1440	17200	2680	1880	1690	675	525	545	135
21	470	405	580	1320	17800	2520	1800	1830	610	500	545	155
22	475	310	580	1320	14600	2450	1740	1730	550	490	550	180
23	475	315	550	1390	13700	2400	1700	1610	520	480	545	180
24	475	315	530	1400	11400	2350	1700	1470	510	480	520	180
25	465	330	530	1340	7560	2420	1700	1420	500	480	490	180
26	385	315	550	1310	6420	2810	1750	1470	500	480	495	175
27	375	350	570	1270	5700	2600	1750	1440	500	480	480	170
28	450	350	585	1240	4860	2550	1910	1440	495	480	460	160
29	420	450	610	1240	4300	2730	2020	1440	485	480	435	150
30	455	460	600	2860	---	3110	2240	1410	485	480	430	130
31	460	---	600	1640	---	3300	---	1380	---	480	435	---
TOTAL	15350	11650	16640	32810	161840	93760	67270	55780	24696	16650	15585	7165
MEAN	495	388	537	1058	5581	3025	2242	1799	823	537	503	239
MAX	760	465	610	2860	17800	6940	3330	2480	1590	700	550	430
MIN	375	310	450	320	1470	2160	1700	1380	485	480	430	130
AC-FT	30450	23110	33010	65080	321000	186000	133400	110600	48980	33030	30910	14210

CAL YR 1967 TOTAL 1183219 MEAN 3242 MAX 23900 MIN 310 AC-FT 2347000
WTR YR 1968 TOTAL 519196 MEAN 1419 MAX 17800 MIN 130 AC-FT 1030000

11418000 YUBA RIVER BELOW ENGLEBRIGHT DAM, NEAR SMARTVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	125	625	640	1150	8500	7580	5200	8500	6180	708	500	410
2	125	630	640	1060	8180	6660	5090	7010	6220	720	500	380
3	95	620	640	1260	7900	5300	4830	2490	5470	628	500	365
4	0	630	600	1360	7760	3320	5960	2250	3020	500	500	360
5	0	625	565	1460	8800	3160	7060	2180	3170	500	500	340
6	0	620	610	1430	8710	3100	7120	2460	3030	500	500	330
7	0	625	650	1410	7910	2960	6360	2820	2850	500	500	330
8	50	635	655	1380	7520	2860	6700	3150	2590	500	500	295
9	150	650	655	1330	8060	2780	7420	3570	2440	400	500	280
10	155	655	650	1270	7980	2700	5860	4030	2370	350	500	280
11	210	635	650	1600	7780	2620	4340	4720	1660	470	500	280
12	300	590	630	3040	10500	2620	4580	5390	1260	490	500	280
13	300	555	645	8420	9040	2520	4680	5280	1360	490	500	280
14	285	565	630	8910	8660	2500	4590	7280	1410	480	500	280
15	460	575	600	4770	12200	2520	4320	12100	1310	480	500	280
16	315	580	615	3690	10400	2580	3300	11100	1800	480	500	275
17	410	585	616	3170	9040	2720	2660	11600	2200	480	500	275
18	590	560	1590	2930	8580	2880	3120	12500	1820	480	490	275
19	590	600	1850	11700	8060	2870	3170	12500	1490	480	475	275
20	575	600	1160	28100	7740	2920	3150	11700	1310	480	475	275
21	575	610	1100	30900	7500	3110	3230	11100	1310	480	475	275
22	465	625	1200	17700	7320	3060	3540	11400	1300	500	465	275
23	600	640	1250	9390	7360	3110	3940	10800	1080	500	460	275
24	600	650	2040	7690	7740	3140	3660	8910	833	500	455	275
25	600	665	4300	14200	7820	2580	5290	8620	849	500	440	275
26	600	670	3360	32400	7200	1650	8540	7860	789	500	425	275
27	600	610	2390	24300	6700	2000	8420	7820	704	500	425	275
28	600	610	2240	17400	7840	2760	8380	7860	700	500	425	275
29	615	610	2150	12700	---	3050	8500	6560	700	500	425	275
30	625	625	1680	10200	---	3300	8540	6450	700	500	425	275
31	625	---	1290	8820	---	4180	---	6080	---	500	425	---
TOTAL	11240	18475	38291	275140	232800	99110	161550	226090	61925	15596	14785	8895
MEAN	363	616	1235	8875	8314	3197	5385	7293	2064	503	477	297
MAX	625	670	4300	32400	12200	7580	8540	12500	6220	720	500	410
MIN	0	555	565	1060	6700	1650	2660	2180	700	350	425	275
AC-FT	22290	36650	75950	545700	461800	196600	320400	448400	122800	30930	29330	17640

CAL YR 1968 TOTAL 543562 MEAN 1485 MAX 17800 MIN 0 AC-FT 1078000
WTR YR 1969 TOTAL 1163897 MEAN 3189 MAX 32400 MIN 0 AC-FT 2309000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	300	360	380	700	6140	5050	734	3370	1540	755	1560	2230
2	297	360	384	700	4400	4700	726	3180	1170	710	1570	2250
3	297	360	400	700	6120	4180	726	3340	1170	703	1570	2260
4	300	360	388	700	3860	5430	730	3370	1870	702	1560	2250
5	300	364	364	712	3810	4100	730	3350	1730	699	1550	2240
6	300	376	364	718	5990	3020	730	3380	1300	716	1560	2240
7	300	380	360	712	2780	3760	730	2460	1280	703	1560	2250
8	300	380	375	706	2460	4430	734	1030	1050	732	1560	2860
9	297	380	360	706	2920	4050	734	1270	800	740	1560	3550
10	332	384	392	712	2820	5930	734	2440	1990	716	1550	3430
11	353	384	380	718	2950	4720	730	3450	1520	707	1540	3380
12	353	384	416	850	4100	4780	734	3550	1310	706	1550	3280
13	356	384	388	3440	4620	5010	730	3550	1310	703	1540	3150
14	360	388	388	10600	4560	3970	726	3620	1310	702	1550	3070
15	376	384	376	6390	4160	3920	726	3580	1300	702	1540	3040
16	380	384	585	17700	4030	3490	726	3550	1310	702	1540	2790
17	376	384	380	34900	6350	3740	726	3460	1320	701	1540	2720
18	376	380	396	19900	5900	3240	726	1980	1310	696	1540	2570
19	376	380	356	14800	4430	3650	726	2150	1290	694	1540	2540
20	364	376	353	18500	2790	3660	726	1920	1290	1220	1590	2560
21	350	372	372	49800	3250	3650	726	1940	1300	1600	1930	1100
22	353	368	542	76400	3030	3440	726	1900	1300	1600	1940	263
23	353	368	682	39400	2970	3650	726	1860	1310	1580	1950	224
24	356	372	10000	55900	4130	3570	734	1850	1300	1560	2120	263
25	360	380	5610	26700	3380	3350	742	1830	1300	1560	2300	317
26	360	364	3240	12300	3620	2090	742	1540	978	1570	2300	431
27	360	356	1880	16600	3600	726	814	1200	763	1580	2330	840
28	360	356	1320	7540	3650	722	3090	943	761	1590	2250	1100
29	360	356	1030	13900	---	1060	3170	1430	780	1590	2240	715
30	360	360	838	15100	---	1880	3380	2880	811	1590	2230	1770
31	360	---	718	8740	---	1640	---	2880	---	1560	1290	---
TOTAL	10625	11184	34017	457244	112820	110608	29434	78253	37773	32089	53950	61683
MEAN	343	373	1097	14750	4029	3568	981	2524	1259	1035	1740	2056
MAX	380	388	10000	76400	6350	5930	3380	3620	1990	1600	2330	3550
MIN	297	356	353	700	2460	722	726	943	761	694	1290	224
AC-FT	21070	22180	67470	906900	223800	219400	58380	155200	74920	63650	107000	122300

CAL YR 1969 TOTAL 1151717 MEAN 3155 MAX 32400 MIN 275 AC-FT 2284000
WTR YR 1970 TOTAL 1029680 MEAN 2821 MAX 76400 MIN 224 AC-FT 2042000

11418500 DEER CREEK NEAR SMARTVILLE, CALIF.

LOCATION.--Lat 39°13'28", long 121°16'03", in SW¼SE¼ sec.23, T.16 N., R.6 E., Nevada County, on left bank 400 ft upstream from county road bridge, 0.9 mile upstream from mouth, and 2 miles northeast of Smartville.

DRAINAGE AREA.--84.6 sq mi.

PERIOD OF RECORD.--June 1935 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 630 ft (from river-profile map). June 21, 1935, to Nov. 30, 1938, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--35 years, 134 cfs (97,080 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Dec. 28, 1965	2,620	7.57	June 16, 17, 1966	6.9
1967	Jan. 21, 1967	7,810	11.53	Sept.22, 1967	7.4
1968	Feb. 19, 1968	4,590	9.23	June 23, 24, 1968	6.5
1969	Jan. 20, 1969	6,150	10.34	Sept.28, 1969	6.8
1970	Jan. 21, 1970	6,550	10.73	Sept.30, 1970	3.5

Period of record: Maximum discharge, 11,600 cfs Oct. 13, 1962 (gage height, 13.77 ft), from rating curve extended above 5,200 cfs; minimum daily, 0.1 cfs Aug. 4-6, 15, 1940.

Flood in March 1928 reached a stage of 14.5 ft, from floodmarks (discharge, 14,000 cfs),

REMARKS.--Records good. Natural flow of stream is affected by Scotts Flat Reservoir beginning in 1949 (usable capacity, 26,300 acre-ft, increased to 49,000 acre-ft in July 1964), Deer Creek Reservoir (capacity, 1,400 acre-ft), power developments, and by diversion for irrigation. At times, water from South Yuba River is diverted to Deer Creek and water from Deer Creek is diverted to Bear River. See schematic diagram of Yuba River basin elsewhere in this report.

REVISIONS.--WSP 1395: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	21	26	137	224	66	32	27	22	8.3	14	15
2	16	19	24	88	177	57	29	27	20	11	12	15
3	16	15	24	69	101	48	32	26	18	13	12	15
4	17	15	23	757	93	47	31	24	15	14	12	14
5	16	18	23	1440	142	46	27	22	14	13	12	14
6	15	18	23	368	357	45	26	23	15	12	11	14
7	15	18	22	170	152	52	23	21	19	12	11	14
8	14	25	22	135	106	48	20	18	20	12	11	16
9	14	24	21	95	83	50	34	21	15	11	12	15
10	15	19	18	81	72	118	74	33	14	11	12	15
11	16	18	20	70	63	74	73	29	13	11	12	15
12	17	21	50	59	58	61	111	26	12	11	12	15
13	18	27	30	54	55	104	63	23	11	11	12	16
14	22	116	24	49	53	70	47	18	8.9	8.3	12	16
15	42	46	23	46	50	61	34	18	7.8	7.8	12	15
16	24	30	23	42	49	80	31	16	6.9	7.5	12	14
17	19	189	21	41	48	63	28	18	6.9	7.5	12	14
18	16	354	20	40	46	58	28	16	7.2	7.5	13	15
19	16	82	20	40	64	78	26	16	7.5	7.5	12	16
20	15	39	20	37	60	64	26	14	7.2	8.0	12	13
21	18	30	20	34	50	55	24	15	7.5	8.0	12	11
22	20	26	20	34	46	52	21	17	8.3	9.6	12	9.2
23	20	53	20	35	50	49	21	16	8.0	9.6	12	8.6
24	19	547	82	33	68	46	21	15	8.0	18	12	8.3
25	19	134	555	31	84	46	23	17	7.5	9.6	13	8.6
26	18	59	83	30	144	42	22	15	7.5	8.9	13	9.2
27	18	41	50	30	92	41	23	19	7.2	9.9	14	8.0
28	18	34	602	32	72	41	24	20	7.5	11	14	8.0
29	21	30	593	87	---	38	24	20	7.5	9.6	14	7.8
30	23	29	564	794	---	37	24	20	8.0	11	14	7.8
31	22	---	378	162	---	36	---	22	---	14	15	---
TOTAL	574	2097	3444	5120	2659	1773	1022	632	337.4	323.6	385	382.5
MEAN	18.5	69.9	111	165	95.0	57.2	34.1	20.4	11.2	10.4	12.4	12.8
MAX	42	547	602	1440	357	118	111	33	22	18	15	16
MIN	14	15	18	30	46	36	20	14	6.9	7.5	11	7.8
AC-FT	1140	4160	6830	10160	5270	3520	2030	1250	669	642	764	759

CAL YR 1965 TOTAL 45905.9 MEAN 126 MAX 3260 MIN 7.9 AC-FT 91050
WTR YR 1966 TOTAL 18749.5 MEAN 51.4 MAX 1440 MIN 6.9 AC-FT 37190

11418500 DEER CREEK NEAR SMARTVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	16	738	30	556	141	488	247	135	11	9.5	10
2	11	19	1740	29	338	144	332	230	104	11	9.5	10
3	11	21	681	29	252	146	288	225	84	11	12	10
4	12	16	425	30	206	154	254	230	74	9.5	13	10
5	12	13	1190	33	176	135	285	238	76	9.5	13	10
6	11	102	872	30	148	110	1090	247	86	9.5	14	11
7	10	83	324	28	126	101	681	243	84	10	14	11
8	9.9	32	174	26	113	100	387	254	78	9.1	14	11
9	8.9	28	119	26	101	94	322	278	61	9.5	13	11
10	8.6	24	117	26	91	97	352	396	54	9.9	14	12
11	8.6	19	91	26	89	302	513	390	53	16	13	12
12	11	17	76	26	84	732	340	378	56	19	13	12
13	9.9	16	71	26	78	714	266	332	84	14	13	12
14	9.2	18	65	26	81	468	263	301	59	13	13	12
15	9.6	126	57	25	82	332	311	285	58	20	12	11
16	9.9	315	53	26	85	2060	280	278	52	29	11	11
17	11	62	50	25	73	1160	485	258	48	24	11	11
18	11	38	48	26	66	642	660	230	45	9.9	12	18
19	10	123	46	26	63	454	482	206	43	9.5	13	13
20	11	1070	44	622	59	393	396	178	39	9.1	11	9.9
21	11	514	42	3970	57	352	327	158	37	8.8	26	8.8
22	9.9	329	41	1690	55	319	290	143	28	8.4	13	7.4
23	8.9	78	39	367	53	454	363	126	26	8.8	10	9.1
24	9.2	51	38	438	56	369	482	102	19	9.5	12	9.9
25	9.9	41	37	370	76	314	352	95	19	8.8	14	9.5
26	11	35	36	477	61	278	301	92	19	8.4	13	8.8
27	11	32	34	481	74	266	352	84	19	9.1	13	8.4
28	11	156	33	868	119	283	311	74	16	8.8	13	10
29	11	716	32	1780	---	288	280	74	14	8.8	13	10
30	12	135	32	989	---	314	283	61	13	9.1	13	9.9
31	13	---	30	1880	---	590	---	59	---	9.1	11	---
TOTAL	321.8	4245	7375	14451	3418	12306	11816	6492	1583	361.1	399.0	319.7
MEAN	10.4	142	238	466	122	397	394	209	52.8	11.6	12.9	10.7
MAX	13	1070	1740	3970	556	2060	1090	396	135	29	26	18
MIN	8.3	13	30	25	53	94	254	59	13	8.4	9.5	7.4
AC-FT	638	8420	14630	28660	6780	24410	23440	12880	3140	716	791	634

CAL YR 1966 TOTAL 24576.3 MEAN 67.3 MAX 1740 MIN 6.9 AC-FT 48750
WTR YR 1967 TOTAL 63087.6 MEAN 173 MAX 3970 MIN 7.4 AC-FT 125100

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	18	82	29	184	76	161	37	21	7.4	23	11
2	58	16	41	28	496	70	140	32	19	7.4	15	12
3	85	16	124	27	327	64	105	23	20	7.4	13	11
4	27	18	171	27	169	60	89	22	21	7.1	11	11
5	27	20	381	27	128	59	82	21	20	8.8	12	14
6	26	20	73	25	116	56	72	20	24	9.1	11	14
7	23	20	330	24	106	62	66	21	23	9.5	12	13
8	21	21	100	24	95	203	61	19	22	9.9	12	13
9	21	21	57	26	90	219	57	19	19	9.9	11	14
10	20	24	45	469	83	192	58	19	15	9.9	9.5	14
11	20	19	40	126	71	177	56	19	14	10	9.1	16
12	20	19	36	62	63	184	46	20	13	10	9.1	17
13	21	23	33	46	140	522	40	29	13	10	9.5	15
14	19	34	30	54	96	407	46	46	13	10	9.9	13
15	19	25	44	799	72	312	53	29	13	11	11	13
16	18	19	33	200	98	648	50	25	13	11	11	14
17	14	16	31	104	728	530	37	23	12	11	10	13
18	12	14	37	73	261	370	32	22	12	11	9.9	13
19	17	54	58	59	734	288	29	21	7.7	12	20	12
20	19	28	56	48	1350	249	29	21	7.4	14	26	13
21	14	22	47	42	826	231	23	22	7.4	14	16	13
22	19	16	32	40	305	221	23	22	6.8	14	15	12
23	26	14	29	37	293	213	23	21	6.5	11	15	12
24	24	15	29	35	205	205	23	19	6.5	11	14	12
25	18	16	31	34	149	207	23	20	6.8	11	12	13
26	25	15	32	35	122	209	23	21	7.1	9.5	13	14
27	20	16	31	36	105	180	22	20	7.4	9.5	12	14
28	18	32	27	37	91	161	22	19	6.5	8.0	12	13
29	16	89	26	56	83	154	27	16	6.8	12	11	14
30	16	155	27	1660	---	143	35	14	7.4	11	11	14
31	16	---	26	360	---	141	---	23	---	11	9.9	---
TOTAL	710	835	2139	4649	7586	6813	1553	705	391.3	318.4	395.9	397
MEAN	22.9	27.8	69.0	150	262	220	51.8	22.7	13.0	10.3	12.8	13.2
MAX	85	155	381	1660	1350	648	161	46	24	14	26	17
MIN	11	14	26	24	63	56	22	14	6.5	7.1	9.1	11
AC-FT	1410	1660	4240	9220	15050	13510	3080	1400	776	632	785	787

CAL YR 1967 TOTAL 54829.8 MEAN 150 MAX 3970 MIN 7.4 AC-FT 108800
WTR YR 1968 TOTAL 26492.6 MEAN 72.4 MAX 1660 MIN 6.5 AC-FT 52550

11418500 DEER CREEK NEAR SMARTVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	32	64	69	476	931	351	106	24	19	16	15
2	15	68	49	59	444	605	353	97	26	18	16	15
3	15	256	34	53	373	523	390	92	26	17	16	16
4	15	96	33	52	351	437	340	90	27	16	16	14
5	16	51	33	51	1110	398	760	80	27	15	16	11
6	16	40	48	48	936	379	701	68	26	16	17	10
7	18	29	55	40	476	351	476	57	27	16	14	10
8	18	23	56	40	390	324	401	53	28	17	14	10
9	16	24	56	39	670	319	353	57	30	17	14	9.5
10	16	24	256	38	479	314	324	52	31	17	19	9.1
11	18	26	338	492	831	278	307	48	34	17	16	7.7
12	125	177	88	642	1050	269	302	46	34	16	16	7.4
13	56	57	58	2770	625	260	305	45	34	15	16	7.1
14	38	41	444	884	712	247	300	46	32	15	15	7.4
15	37	134	553	283	2440	241	283	47	28	15	16	7.7
16	24	58	257	182	1090	239	260	46	26	14	16	8.4
17	20	37	102	135	725	262	245	43	27	13	16	8.4
18	19	62	65	217	685	269	249	41	28	15	15	8.8
19	17	58	66	2420	585	269	243	39	26	15	15	9.1
20	16	37	52	4030	537	281	237	38	23	16	14	8.0
21	15	30	41	3360	512	335	233	37	23	16	9.1	9.1
22	16	26	37	1280	457	295	217	37	23	16	9.5	9.1
23	16	25	52	563	627	281	338	37	23	16	8.8	8.8
24	18	35	529	770	969	281	345	34	21	16	9.1	7.7
25	18	34	1080	1830	1080	276	267	32	19	16	9.5	7.4
26	21	26	355	2640	725	278	235	32	19	17	9.9	7.1
27	21	23	146	1420	526	281	209	36	20	16	9.9	7.1
28	19	21	164	1050	1480	288	200	32	19	16	14	6.8
29	21	21	151	761	---	297	162	29	19	18	16	7.1
30	42	52	99	637	---	314	130	26	19	19	16	7.1
31	32	---	80	523	---	335	---	23	---	17	15	---
TOTAL	768	1623	5441	27378	21361	10457	9516	1546	769	502	439.8	276.9
MEAN	24.8	54.1	176	883	763	337	317	49.9	25.6	16.2	14.2	9.23
MAX	125	256	1080	4030	2440	931	760	106	34	19	19	16
MIN	14	21	33	38	351	239	130	23	19	13	8.8	6.8
AC-FT	1520	3220	10790	54300	42370	20740	18870	3070	1530	996	872	549
(†)	20492	22724	26785	48764	48764	48837	48619	47461	44060	38343	31827	26535

CAL YR 1968 TOTAL 30640.6 MEAN 83.7 MAX 1660 MIN 6.5 AC-FT 60780
WTR YR 1969 TOTAL 80077.7 MEAN 219 MAX 4030 MIN 6.8 AC-FT 158800

† CONTENTS, IN ACRE-FEET, AT END OF MONTH IN SCOTTS FLAT RESERVOIR, FURNISHED BY NEVADA IRRIGATION DISTRICT.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	16	19	49	448	1310	117	36	13	13	5.0	5.6
2	8.4	16	18	44	397	569	115	33	11	12	5.3	5.8
3	8.8	15	16	43	343	390	116	33	11	11	4.7	5.0
4	9.2	16	17	41	306	390	108	31	12	11	4.5	5.3
5	9.2	78	16	38	276	367	104	27	12	11	5.4	6.6
6	9.2	82	16	37	250	305	101	21	12	11	5.8	8.0
7	8.8	43	15	39	226	292	93	23	13	8.5	4.5	9.2
8	11	36	20	42	210	1050	82	24	13	11	5.0	8.0
9	17	26	31	288	196	452	61	33	24	11	5.9	7.3
10	16	21	40	391	183	488	59	30	33	12	5.3	6.9
11	15	19	72	145	178	381	58	32	27	13	4.2	6.4
12	14	19	57	168	235	330	47	25	24	11	4.5	6.6
13	15	17	80	584	515	301	47	31	23	10	6.6	7.3
14	19	17	38	1790	464	282	60	23	25	9.0	8.3	8.0
15	50	17	29	428	287	268	56	18	25	10	8.7	8.0
16	88	18	24	1880	538	247	55	17	22	11	8.0	8.4
17	34	19	21	701	912	229	54	18	18	10	6.7	7.7
18	26	17	20	329	429	217	52	19	17	11	6.9	7.3
19	23	17	233	408	324	198	52	15	16	11	7.4	8.0
20	22	16	641	513	278	189	44	19	14	9.9	6.2	8.8
21	19	17	1340	3760	240	186	43	20	14	9.6	6.2	9.2
22	17	17	231	1430	225	183	41	18	12	9.1	6.0	9.2
23	16	17	705	1250	214	172	38	18	11	8.2	6.1	8.4
24	16	17	2220	2250	202	167	36	17	10	7.8	6.9	7.0
25	17	17	481	1140	190	161	34	15	10	7.7	7.7	6.0
26	16	19	183	850	184	153	34	17	12	8.4	7.8	4.2
27	15	20	111	1740	175	142	42	17	13	7.0	7.0	3.6
28	14	22	83	904	190	134	39	16	15	6.6	7.2	3.8
29	17	22	70	701	---	137	37	17	16	6.2	7.4	3.6
30	20	20	61	596	---	137	37	16	15	6.2	6.9	3.5
31	16	---	53	515	---	124	---	15	---	5.7	5.8	---
TOTAL	594.3	713	6961	23094	8615	9951	1862	694	493	299.9	193.9	202.7
MEAN	19.2	23.8	225	745	308	321	62.1	22.4	16.4	9.67	6.25	6.76
MAX	88	82	2220	3760	912	1310	117	36	33	13	8.7	9.2
MIN	7.7	15	15	37	175	124	34	15	10	5.7	4.2	3.5
AC-FT	1180	1410	13810	45810	17090	19740	3690	1380	978	595	385	402
(†)	25509	26271	32046	48547	48547	48547	47316	45732	42930	38675	34030	30183

CAL YR 1969 TOTAL 80514.0 MEAN 221 MAX 4030 MIN 6.8 AC-FT 159700
WTR YR 1970 TOTAL 53673.8 MEAN 147 MAX 3760 MIN 3.5 AC-FT 106500

† CONTENTS, IN ACRE-FEET, AT END OF MONTH IN SCOTTS FLAT RESERVOIR, FURNISHED BY NEVADA IRRIGATION DISTRICT.

11420700 DRY CREEK NEAR BROWNS VALLEY, CALIF.

LOCATION.--Lat 39°15'23", long 121°20'34", in NE¼SW¼ sec.7, T.16 N., R.6 E., Yuba County, on left bank 500 ft upstream from diversion dam and 3.6 miles east of Browns Valley.

DRAINAGE AREA.--87.1 sq mi.

PERIOD OF RECORD.--July 1964 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 265 ft (from topographic map).

AVERAGE DISCHARGE.--6 years, 86.0 cfs (62,310 acre-ft per year), unadjusted.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 30, 1966	520	5.00	Aug. 19, 20, 24, 1966	1.8
1967	Jan. 29, 1967	3,350	8.63	Jan. 16-19, 1967	2.4
1968	Mar. 13, 1968	835	5.69	Dec. 4-8, 1967	1.6
1969	Jan. 21, 1969	5,950	10.38	Dec. 9, 1968	2.1
1970	Jan. 21, 1970	5,840	10.31	Dec. 3, 1969	1.4

Period of record: Maximum discharge, 5,950 cfs Jan. 21 1969 (gage height, 10.38 ft); minimum daily, 1.2 cfs Dec. 12-15, 1964.

REMARKS.--Records good except those for summer months, which are fair. Since 1963, flow regulated by Lake Mildred (capacity, 1,500 acre-ft) and Merle Collins Reservoir (capacity, 57,000 acre-ft) 6.5 miles upstream. Some diversion above station for irrigation. See schematic diagram of Yuba River basin elsewhere in this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	6.7	2.6	14	288	100	29	6.2	5.9	4.1	5.0	2.6
2	6.7	7.2	2.3	9.4	312	85	26	6.2	5.9	5.0	5.0	2.6
3	6.2	7.7	2.1	7.5	198	69	28	5.9	5.7	5.7	3.3	2.4
4	6.4	7.2	1.9	74	170	61	15	5.9	5.5	5.7	3.7	2.4
5	6.7	6.9	3.5	158	242	59	17	6.9	5.7	5.0	3.5	2.4
6	6.4	6.7	3.9	45	272	58	15	6.9	6.2	5.7	3.5	3.7
7	5.9	6.4	3.9	26	218	67	13	7.2	6.2	4.8	3.0	3.2
8	5.0	8.2	3.9	19	162	67	8.5	7.4	5.9	5.0	2.6	3.0
9	5.7	5.5	3.5	13	122	67	12	7.7	5.7	5.5	2.4	3.3
10	5.9	3.7	3.0	10	100	128	104	8.2	4.8	5.5	2.6	3.0
11	6.4	3.3	4.1	8.5	77	130	98	6.9	5.0	4.4	3.2	2.8
12	6.2	3.3	13	7.7	70	100	139	6.2	4.1	4.4	3.7	2.8
13	6.2	6.7	7.2	32	57	120	116	7.2	3.3	4.8	3.3	3.3
14	7.7	17	5.2	48	53	114	69	7.2	3.3	4.4	3.3	3.9
15	7.7	6.7	4.4	53	52	92	46	6.2	4.6	3.9	3.2	4.1
16	5.9	5.7	3.9	48	47	89	33	5.7	4.8	4.1	2.8	3.5
17	6.2	40	3.5	44	46	80	21	6.2	4.1	4.1	2.4	3.5
18	6.2	44	3.5	37	44	68	16	6.1	3.7	3.9	1.9	4.1
19	5.9	17	3.3	37	66	81	17	6.7	3.3	3.9	1.8	4.6
20	5.9	8.0	3.2	37	114	90	13	6.4	4.8	3.7	1.8	4.1
21	6.4	5.0	3.2	32	86	74	9.4	5.7	4.4	3.5	1.9	3.9
22	6.2	3.9	2.8	30	66	66	9.1	6.2	5.0	3.3	2.4	3.7
23	6.2	5.0	2.6	34	65	55	8.0	6.9	5.7	3.9	2.6	4.8
24	6.2	17	3.5	33	81	53	7.1	5.0	5.5	3.7	1.8	3.9
25	6.2	16	15	31	126	50	5.9	5.0	4.6	3.7	2.1	3.5
26	6.2	8.5	8.0	29	202	47	5.9	5.5	4.8	3.7	1.9	3.7
27	6.2	5.5	5.7	27	168	44	6.2	5.5	4.6	4.4	3.2	3.9
28	6.4	3.5	67	26	126	41	6.4	5.7	4.6	4.1	3.9	4.4
29	5.9	3.2	68	43	---	40	6.9	5.9	4.1	4.1	4.1	4.4
30	5.9	3.0	32	440	---	36	6.7	5.9	4.8	4.4	3.7	3.9
31	6.2	---	24	295	---	33	---	5.7	---	4.8	2.4	---
TOTAL	193.9	288.5	313.7	1748.1	3630	2264	907.1	196.3	146.6	137.2	92.0	105.4
MEAN	6.25	9.62	10.1	56.4	130	73.0	30.2	6.33	4.89	4.43	2.97	3.51
MAX	7.7	44	68	440	312	130	139	8.2	6.2	5.7	5.0	4.8
MIN	5.0	3.0	1.9	7.5	44	33	5.9	5.0	3.3	3.3	1.8	2.4
AC-FT	385	572	622	3470	7200	4490	1800	389	291	272	182	209

CAL YR 1965 TOTAL 27285.4 MEAN 74.8 MAX 3280 MIN 1.9 AC-FT 54120
WTR YR 1966 TOTAL 10022.8 MEAN 27.5 MAX 440 MIN 1.8 AC-FT 19880

11420700 DRY CREEK NEAR BROWNS VALLEY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	5.2	69	2.8	1160	57	533	231	15	11	7.0	7.1
2	5.0	4.8	196	2.8	550	54	358	202	12	10	6.9	6.8
3	5.0	4.3	98	2.7	367	49	290	186	11	8.9	6.2	6.8
4	4.9	4.1	95	2.8	286	50	252	170	11	9.2	6.2	6.8
5	4.7	4.0	242	2.9	235	44	272	152	11	12	6.7	6.9
6	4.8	16	186	2.8	192	43	1540	140	12	11	7.0	7.2
7	4.6	8.1	65	2.8	168	42	1130	126	13	11	6.7	7.2
8	4.6	4.3	35	2.7	148	41	568	115	14	9.7	6.2	7.1
9	4.7	3.8	23	2.6	130	39	384	106	12	7.9	6.2	6.8
10	4.7	3.4	15	2.6	118	38	361	150	12	8.1	6.3	7.2
11	5.3	3.2	11	2.6	107	186	528	152	11	8.1	6.4	7.2
12	5.3	3.1	10	2.6	101	356	431	136	15	7.7	6.5	6.6
13	4.8	2.8	8.8	2.6	95	612	324	114	16	8.2	6.5	6.2
14	4.1	3.0	7.2	2.6	92	487	290	94	12	7.1	7.4	6.0
15	4.0	7.6	6.5	2.5	83	311	293	75	7.8	6.9	6.9	5.9
16	4.1	11	6.0	2.4	79	1360	267	56	7.1	6.9	7.5	6.7
17	3.9	4.5	5.4	2.4	76	986	324	30	7.3	7.1	7.0	6.4
18	4.3	3.4	5.0	2.4	70	440	736	15	7.0	7.0	6.9	6.3
19	4.8	14	4.7	2.4	70	299	552	7.8	7.3	6.5	6.9	6.1
20	4.5	64	4.5	55	59	237	522	7.4	7.8	6.1	6.9	5.9
21	4.4	44	4.2	645	55	212	401	6.5	7.7	7.2	6.8	5.8
22	4.3	50	3.9	302	55	180	339	7.2	8.0	7.2	6.6	5.9
23	4.3	10	3.8	71	54	255	353	7.2	7.5	7.6	6.5	6.3
24	4.3	6.0	3.6	64	57	252	628	7.0	7.0	7.9	6.6	7.1
25	4.2	4.6	3.5	46	85	184	505	7.6	7.5	7.4	6.8	7.6
26	4.5	4.1	3.4	64	86	154	355	7.6	12	7.6	7.0	6.7
27	6.6	3.8	3.2	290	71	136	349	7.6	12	7.6	6.6	6.5
28	11	11	3.1	1190	60	128	316	7.2	12	7.3	6.8	6.7
29	8.6	71	3.1	2380	---	158	270	8.5	11	7.9	6.6	6.9
30	5.5	23	3.0	1510	---	192	247	7.8	10	7.3	6.7	6.2
31	5.4	---	3.0	2480	---	490	---	8.1	---	6.6	6.6	---
TOTAL	155.6	402.1	1130.9	9147.0	4709	8072	13718	2347.5	316.0	252.0	207.9	198.9
MEAN	5.02	13.4	36.5	295	168	260	457	75.7	10.5	8.13	6.71	6.63
MAX	11	71	242	2480	1160	1360	1540	231	16	12	7.5	7.6
MIN	3.9	2.8	3.0	2.4	54	38	247	6.5	7.0	6.1	6.2	5.8
AC-FT	309	798	2240	18140	9340	16010	27210	4660	627	500	412	395

CAL YR 1966 TOTAL 10915.3 MEAN 29.9 MAX 440 MIN 1.8 AC-FT 21650
WTR YR 1967 TOTAL 40656.9 MEAN 111 MAX 2480 MIN 2.4 AC-FT 80640

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	7.0	6.6	1.7	30	95	59	6.7	6.0	6.2	5.7	6.1
2	10	6.1	4.3	1.7	99	87	69	5.0	6.2	6.4	5.6	6.2
3	9.8	6.1	11	1.7	47	79	63	4.4	6.5	6.4	5.1	6.6
4	6.5	5.6	13	1.6	28	72	56	6.2	6.2	6.8	5.3	5.5
5	6.9	5.4	24	1.6	20	64	54	7.0	6.8	7.1	5.2	6.9
6	5.2	5.4	7.2	1.6	15	61	51	7.2	7.9	6.8	5.2	6.0
7	4.3	5.4	27	1.6	12	67	45	7.0	8.1	6.7	5.2	5.7
8	4.2	4.5	13	1.6	10	94	39	6.7	7.8	6.7	5.2	5.6
9	4.0	4.3	6.8	1.7	8.9	98	36	6.5	8.3	5.7	5.2	5.9
10	3.8	4.2	4.9	44	7.9	78	35	6.5	8.2	6.2	5.2	5.9
11	3.7	4.0	4.0	12	7.0	65	33	6.7	7.1	5.7	5.2	5.6
12	3.8	3.9	3.5	5.8	6.2	77	29	7.0	6.9	5.6	5.2	5.5
13	3.9	3.7	3.2	3.8	12	705	27	8.7	7.0	5.7	5.2	5.6
14	3.7	4.7	3.0	7.3	10	640	18	9.2	7.4	5.7	5.2	6.0
15	3.5	3.6	2.8	69	7.9	385	11	8.2	6.8	5.7	5.2	5.9
16	3.6	3.9	2.8	23	9.7	468	4.0	7.2	6.5	6.2	5.2	5.7
17	3.7	3.9	2.4	12	86	552	5.6	6.7	6.3	6.7	5.2	5.8
18	3.7	5.0	2.6	8.2	43	328	7.2	6.7	6.0	6.6	5.2	5.7
19	3.9	12	2.8	6.0	155	222	5.0	7.7	5.8	6.0	5.2	6.3
20	3.9	5.9	2.4	5.0	243	165	5.2	7.9	6.7	5.7	5.2	6.3
21	4.0	4.5	2.2	4.0	171	133	7.9	7.4	7.0	5.8	5.2	6.3
22	4.0	4.0	1.9	3.6	71	116	7.4	6.7	6.8	5.5	5.2	6.2
23	4.2	3.9	2.1	3.2	54	102	7.7	7.2	7.1	5.4	5.2	5.6
24	4.4	3.7	2.0	3.0	38	94	7.9	6.7	7.1	4.8	5.2	5.7
25	5.7	3.6	2.0	2.8	29	86	7.9	7.0	6.6	5.4	5.2	5.6
26	8.8	3.6	1.9	2.6	24	80	7.9	6.5	6.8	5.4	5.2	5.6
27	7.5	3.7	1.8	2.6	62	72	7.9	6.2	7.2	5.7	5.2	6.0
28	6.1	4.5	1.8	2.5	98	69	8.4	6.0	7.5	6.1	5.2	6.0
29	5.5	11	1.7	5.6	102	67	7.9	5.6	7.1	6.1	5.2	6.1
30	5.8	12	1.7	357	---	64	7.9	5.6	6.6	5.7	6.1	6.4
31	7.2	---	1.7	66	---	59	---	6.0	---	5.5	6.1	---
TOTAL	161.6	159.1	168.1	663.8	1506.6	5344	730.8	210.1	208.3	186.0	163.9	178.3
MEAN	5.21	5.30	5.42	21.4	52.0	172	24.4	6.78	6.94	6.00	5.29	5.94
MAX	10	12	27	357	243	705	69	9.2	8.3	7.1	6.1	6.9
MIN	3.5	3.6	1.7	1.6	6.2	59	4.0	4.4	5.8	4.8	5.1	5.5
AC-FT	321	316	333	1320	2990	10600	1450	417	413	369	325	354

CAL YR 1967 TOTAL 39457.1 MEAN 108 MAX 2480 MIN 1.7 AC-FT 78260
WTR YR 1968 TOTAL 9680.6 MEAN 26.4 MAX 705 MIN 1.6 AC-FT 19200

11420700 DRY CREEK NEAR BROWNS VALLEY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	3.0	4.2	8.9	286	1200	88	7.5	7.3	5.0	4.3	7.5
2	6.7	5.8	3.6	7.8	319	682	85	9.3	7.5	5.9	3.7	7.5
3	7.0	20	3.0	6.8	269	553	108	7.2	7.0	5.6	3.4	7.2
4	7.0	6.5	2.6	6.0	237	430	103	6.6	7.3	5.3	3.4	6.6
5	6.7	5.0	2.5	5.5	717	356	276	5.9	7.0	4.9	3.5	6.5
6	7.0	4.4	2.4	5.1	932	319	479	5.9	7.0	4.9	3.6	6.5
7	7.0	3.7	2.2	4.7	526	288	299	5.5	7.0	5.1	3.6	6.5
8	7.4	2.6	2.2	4.3	361	263	199	7.5	7.0	5.3	3.9	6.5
9	7.7	2.4	2.1	4.0	825	248	154	6.0	7.0	5.0	4.5	6.9
10	7.0	2.4	7.4	3.7	755	244	133	5.6	7.0	4.2	5.0	7.0
11	7.2	3.1	19	42	772	219	116	5.5	6.0	4.4	5.0	6.8
12	14	9.4	7.0	129	1540	200	106	5.7	6.0	5.1	4.7	6.6
13	9.2	4.0	4.6	787	757	190	101	6.0	6.0	5.7	5.0	5.6
14	7.0	3.8	57	193	650	176	96	6.7	6.0	5.1	4.8	5.6
15	10	9.2	52	62	2280	168	92	7.2	6.0	5.3	5.7	6.0
16	11	4.8	29	38	1610	160	84	6.7	6.0	4.7	5.5	6.2
17	11	3.4	13	28	765	173	75	7.3	6.0	4.2	5.9	6.3
18	7.2	6.0	8.5	74	617	181	61	5.7	6.0	4.5	5.5	6.8
19	5.2	5.0	6.5	2260	508	162	52	4.9	6.0	4.4	6.2	6.7
20	3.7	3.7	5.2	4190	442	154	33	5.1	6.0	5.2	6.6	6.4
21	3.7	3.0	4.4	4720	471	218	22	6.1	6.0	5.0	6.2	6.6
22	3.6	2.6	3.9	2820	379	192	9.0	6.7	6.0	5.1	6.0	6.1
23	3.4	2.4	5.0	903	570	163	10	6.9	6.0	4.6	6.6	5.4
24	3.4	3.2	36	626	732	143	49	6.6	6.0	4.7	6.7	5.5
25	3.2	3.6	80	1300	801	128	49	6.6	5.0	5.0	6.9	5.4
26	3.2	3.1	37	2670	573	116	31	7.0	5.0	4.8	7.0	5.7
27	3.1	3.2	19	965	425	109	18	7.0	5.0	4.6	6.7	5.5
28	3.0	2.4	19	570	832	104	9.8	6.9	5.0	4.4	7.1	4.9
29	3.8	2.4	19	410	---	99	8.0	6.4	5.0	4.5	7.2	4.9
30	4.0	4.4	13	357	---	94	7.9	7.0	5.0	4.7	7.3	4.8
31	3.4	---	11	298	---	90	---	7.3	---	4.5	7.1	---
TOTAL	193.5	138.5	481.3	23498.8	19951	7822	2953.7	202.3	185.1	151.7	168.6	186.5
MEAN	6.24	4.62	15.5	758	713	252	98.5	6.53	6.17	4.89	5.44	6.22
MAX	14	20	80	4720	2280	1200	479	9.3	7.5	5.9	7.3	7.5
MIN	3.0	2.4	2.1	3.7	237	90	7.9	4.9	5.0	4.2	3.4	4.8
AC-FT	384	275	955	46610	39570	15510	5860	401	367	301	334	370

CAL YR 1968 TOTAL 10005.1 MEAN 27.3 MAX 705 MIN 1.6 AC-FT 19850
WTR YR 1969 TOTAL 55933.0 MEAN 153 MAX 4720 MIN 2.1 AC-FT 110900

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	2.1	1.6	5.0	279	1600	52	7.9	8.4	6.7	7.0	7.4
2	5.9	1.9	1.6	4.4	246	952	53	6.7	7.8	6.5	6.5	7.4
3	5.4	1.7	1.4	3.9	221	415	49	6.7	7.4	6.2	6.2	7.7
4	4.9	1.6	1.8	3.7	204	354	45	7.0	7.5	6.5	5.2	7.2
5	4.8	8.9	1.9	3.5	187	402	24	7.7	7.5	6.5	5.4	7.0
6	5.5	4.7	2.0	3.2	173	291	14	7.9	7.2	5.6	5.4	6.5
7	5.4	2.7	2.0	3.1	162	254	27	8.4	7.7	5.2	5.4	7.2
8	6.7	2.4	2.9	3.7	153	865	57	9.7	8.5	4.8	5.4	7.7
9	6.8	2.2	3.4	19	144	497	46	10	11	5.0	5.6	7.7
10	6.6	2.1	3.6	46	133	515	34	8.9	10	5.0	6.0	7.7
11	6.0	1.8	5.0	24	129	362	27	9.4	9.7	4.8	6.0	7.0
12	6.4	1.7	5.1	46	158	284	23	9.2	9.0	5.0	6.0	6.0
13	6.0	1.7	7.5	110	481	242	13	8.4	7.9	6.2	5.2	6.0
14	7.0	1.6	3.9	842	1050	215	19	8.2	7.5	6.7	5.8	6.0
15	14	1.7	3.1	1040	433	193	28	7.4	7.4	7.0	5.6	6.7
16	12	1.7	2.7	2530	393	171	23	7.9	7.7	6.9	5.8	6.8
17	6.3	1.6	2.5	1240	1110	160	14	9.7	7.4	7.2	5.8	6.2
18	6.1	1.5	2.7	629	520	141	9.2	8.7	7.4	7.0	6.5	5.8
19	4.5	1.6	21	521	327	130	7.9	8.4	7.9	6.2	6.2	6.0
20	4.1	1.6	74	1150	258	124	8.7	9.2	7.2	6.2	6.2	7.1
21	3.8	1.7	118	3690	225	121	10	8.9	7.2	6.2	6.2	6.6
22	3.7	1.6	27	3040	203	116	9.3	10	7.2	6.2	5.6	6.6
23	3.6	1.7	71	1320	184	110	8.6	10	8.2	6.2	6.0	6.6
24	3.7	1.7	349	2470	174	103	7.9	9.6	7.7	5.4	6.5	7.5
25	3.5	1.7	81	925	162	95	8.2	9.4	7.4	5.6	6.2	7.1
26	3.2	1.7	34	577	151	91	8.2	8.6	6.5	6.5	6.7	7.5
27	2.3	1.7	19	1610	142	80	8.4	8.6	5.6	6.0	7.0	8.0
28	2.2	1.7	13	811	160	76	7.9	8.4	6.0	6.2	7.2	7.1
29	2.0	1.7	9.4	498	---	79	7.4	9.0	6.0	6.2	6.5	8.2
30	2.0	1.7	6.9	384	---	73	8.4	8.9	6.0	6.7	7.0	7.9
31	2.0	---	5.7	319	---	61	---	8.5	---	7.0	6.7	---
TOTAL	161.5	63.7	883.7	23871.5	8162	9172	658.1	267.3	229.9	189.4	188.8	210.2
MEAN	5.21	2.12	28.5	770	292	296	21.9	8.62	7.66	6.11	6.09	7.01
MAX	14	8.9	349	3690	1110	1600	57	10	11	7.2	7.2	8.2
MIN	2.0	1.5	1.4	3.1	129	61	7.4	6.7	5.6	4.8	5.2	5.8
AC-FT	320	126	1750	47350	16190	18190	1310	530	456	376	374	417

CAL YR 1969 TOTAL 56228.6 MEAN 154 MAX 4720 MIN 1.4 AC-FT 111500
WTR YR 1970 TOTAL 44058.1 MEAN 121 MAX 3690 MIN 1.4 AC-FT 87390

11421000 YUBA RIVER NEAR MARYSVILLE, CALIF.

LOCATION.--Lat 39°10'33", long 121°31'26", in New Helvetia Grant, Yuba County, on left bank 4.2 miles northeast of Marysville and 5 miles downstream from Dry Creek.

DRAINAGE AREA.--1,339 sq mi.

PERIOD OF RECORD.--October 1940 to September 1943 and October 1944 to September 1945 (low-water periods only), October 1940 to September 1970. Published as "at Marysville" October 1940 to September 1957. Records published for two sites August 1954 to September 1955. Yearly discharge for the water year 1945, published in WSP 1315-A.

GAGE.--Water-stage recorder. Datum of gage is 2.95 ft below mean sea level. Prior to August 1954 and Oct. 1, 1956, to Sept. 30, 1957, at Simpson Lane Bridge in Marysville 4.2 miles downstream at present datum. Sept. 3, 1963, to Sept. 23, 1968, auxiliary water-stage recorder at Simpson Lane Bridge in Marysville 4.2 miles downstream at present datum.

AVERAGE DISCHARGE.--27 years (1943-70), 2,573 cfs (1,864,000 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 5, 1966	7,300	64.17	Sept. 9, 10, 1966	32
1967	Jan. 22, 1967	52,300	76.87	Oct. 19, Nov. 13, 1966	76
1968	Feb. 20, 1968	21,200	68.69	July 30, 1968	41
1969	Jan. 21, 1969	44,200	75.10	Oct. 10, 1968	29
1970	*Jan. 22, 1970*	*106,000*	*84.46*	*Oct. 7, 1969*	*75*

Period of record: Maximum discharge (1943-70), 180,000 cfs Dec. 22, 1964 (gage height, 90.15 ft, from floodmarks), from rating curve extended above 91,000 cfs on basis of Corps of Engineers flood routing study; minimum recorded, 10 cfs July 2, 1959.

REVISIONS.--The maximum discharge for the water year 1960 has been revised to 91,800 cfs Feb. 8, 1960 (gage height, 84.65 ft), superseding figure published in WSP 1715.

REMARKS.--Records good. Flow regulated by several reservoirs above station. Many diversions above station for power. Diversions for irrigation of about 13,000 acres between stations at Englebright Dam and near Marysville . See schematic diagram of Yuba River basin elsewhere in this report. Water-quality records near this gaging station for the water years 1966-70 are published in reports of the Geological Survey.

REVISIONS (WATER YEARS).--WSP 1715: 1956(M). WSP 1931: Drainage area. Revised figures of discharge, in cubic feet per second, for the high-water period in water year 1960, superseding those published in WSP 1715, are given herewith:

Feb. 8, 1960.................................... 65,200

Month	Cfs-days	Mean	Maximum	Minimum	Runoff in acre-feet
February 1960	178,124	6,142	65,200	654	353,300
WTR YR 1960	609,923	1,666	65,200	15	1,210,000
CAL YR 1960	629,888	1,721	65,200	17	1,249,000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	296	525	1280	1930	1610	4360	2180	742	55	81	44
2	99	296	535	929	2090	1570	4680	2200	668	59	75	37
3	234	289	535	819	1640	1490	4540	2270	605	69	69	37
4	233	289	535	1150	1510	1390	4200	2430	545	75	81	36
5	200	289	545	6340	1690	1340	3950	2570	525	72	78	36
6	185	296	545	5000	3130	1310	3930	2700	479	61	72	37
7	170	303	545	3970	3060	1380	3910	2510	479	64	69	37
8	392	317	545	3030	2410	1630	3860	2430	461	64	69	36
9	443	317	545	2440	1980	1730	3700	2440	461	67	64	32
10	443	310	555	2110	1760	2840	5240	2900	409	69	55	32
11	443	324	615	1840	1580	3790	5930	3450	385	67	55	38
12	461	345	753	1620	1460	3210	5570	2870	361	67	64	53
13	434	385	742	1580	1380	3610	4700	2470	324	78	72	103
14	443	575	688	1520	1300	4460	3900	2250	310	75	75	116
15	470	515	646	1490	1250	4060	3520	2110	275	72	69	131
16	470	506	626	1480	1190	3880	3540	1920	331	72	72	140
17	452	636	605	1480	1170	3370	3810	1800	257	81	75	131
18	443	1190	585	1440	1160	2940	4090	1700	257	78	81	140
19	434	753	575	1390	1230	2820	3430	1630	257	78	78	140
20	401	585	565	1310	1380	2760	2840	1610	251	67	72	140
21	401	535	555	1260	1430	2530	2540	1580	257	64	64	127
22	393	525	545	1200	1370	2390	2410	1540	251	59	59	127
23	385	565	535	1190	1390	2290	2340	1450	175	59	53	127
24	385	969	545	1150	1730	2260	2440	1280	96	61	48	127
25	369	808	1160	1140	2040	2370	2620	1190	83	67	46	127
26	324	646	810	1090	2120	2540	2920	1160	81	64	44	127
27	303	626	646	1100	1880	2790	2760	1120	72	59	37	116
28	296	585	759	1090	1700	3140	2460	1030	57	67	48	109
29	296	575	3030	1120	---	3540	2270	973	57	72	46	113
30	303	507	2070	2830	---	3860	2190	896	55	75	46	106
31	296	---	1970	2050	---	4080	---	819	---	83	40	---
TOTAL	10714	15157	24435	57438	47960	82980	108650	59478	9566	2120	1957	2702
MEAN	346	505	788	1853	1713	2677	3622	1919	319	68.4	63.1	90.1
MAX	470	1190	3030	6340	3130	4460	5930	3450	742	83	81	140
MIN	99	289	525	819	1160	1310	2190	819	55	55	37	32
AC-FT	21250	30060	48470	113900	95130	164600	215500	118000	18970	4210	3880	5360

CAL YR 1965 TOTAL 1097170 MEAN 3006 MAX 43900 MIN 99 AC-FT 2176000
WTR YR 1966 TOTAL 423157 MEAN 1159 MAX 6340 MIN 32 AC-FT 839300

11421000 YUBA RIVER NEAR MARYSVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	143	4410	879	16400	1880	6100	3600	8100	7410	304	692
2	95	147	8590	852	10200	1880	5120	3300	6150	6990	274	684
3	95	147	13000	825	7850	1910	4660	3810	5330	6650	274	652
4	99	138	6450	897	6520	1860	4460	4020	5280	5640	280	628
5	99	64	10000	951	5620	1800	4500	4570	5930	4610	286	596
6	156	143	10000	1000	5160	1700	7380	4750	6940	3930	274	449
7	147	352	8870	960	4660	1690	8410	5020	7540	3820	274	449
8	125	165	6000	942	4350	1690	6440	6150	7670	2710	262	442
9	118	110	4500	924	4020	1690	5690	7200	7870	2230	250	449
10	110	95	3720	915	3740	1700	5500	8030	8030	2350	238	456
11	106	88	3520	910	3600	2620	6100	7200	8030	2000	273	484
12	106	82	2940	905	3540	3650	5100	6030	7900	1660	692	498
13	114	76	2550	900	3640	5160	4700	5430	9390	1440	732	498
14	110	79	2420	895	3720	4550	4600	5190	8610	1330	740	505
15	99	276	2240	890	3460	3480	4900	5670	8440	1350	740	456
16	92	676	2020	885	3180	13200	4500	6960	9000	1300	716	428
17	88	548	1840	880	2880	26100	4600	7950	9870	1220	636	280
18	79	484	1670	875	2880	14000	6700	8440	10500	1030	716	274
19	76	498	1590	870	2840	10900	6000	8380	11000	924	732	292
20	85	1460	1500	1190	2670	8610	5500	8720	10600	825	732	316
21	99	1120	1420	16600	2530	8080	4900	9640	9390	724	740	322
22	121	1240	1350	28100	2300	7770	4500	10300	9670	668	652	256
23	125	724	1280	8390	2200	8110	4700	10500	9620	604	700	262
24	125	644	1220	6000	2130	8580	6000	10400	8470	526	676	268
25	121	612	1150	5570	2200	7270	5300	10500	8130	512	692	388
26	118	588	1100	4720	2070	6420	4700	10800	8550	463	716	286
27	121	580	1060	6100	1960	5880	4900	10800	8380	407	708	268
28	138	636	1000	8990	1900	5380	4600	10500	7900	394	700	274
29	138	4190	970	24700	---	5310	4150	10000	7640	346	692	274
30	143	6150	915	24200	---	4880	3900	9500	7460	340	684	286
31	143	---	915	26900	---	5720	---	9200	---	322	692	---
TOTAL	3483	22255	110210	178615	118220	183470	158610	232560	247390	64725	17077	12412
MEAN	112	742	3555	5762	4222	5918	5287	7502	8246	2088	551	414
MAX	156	6150	13000	28100	16400	26100	8410	10800	11000	7410	740	692
MIN	76	64	915	825	1900	1690	3900	3300	5280	322	238	256
AC-FT	6910	44140	218600	354300	234500	363900	314600	461300	490700	128400	33870	24620

CAL YR 1966 TOTAL 508799 MEAN 1394 MAX 13000 MIN 32 AC-FT 1009000
WTR YR 1967 TOTAL 1349027 MEAN 3696 MAX 28100 MIN 64 AC-FT 2676000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	374	235	525	413	2260	6000	3700	1870	925	66	45	59
2	346	248	436	419	2910	4900	3700	1910	865	59	45	63
3	466	222	448	425	4550	4250	3200	1890	808	57	47	63
4	506	222	621	425	4130	3700	2900	1970	875	64	47	57
5	710	239	895	460	3220	3400	2790	1980	846	88	45	55
6	728	267	547	499	2970	3200	2720	1900	771	68	44	52
7	710	248	719	644	3110	3100	2680	1690	745	66	44	55
8	693	239	685	652	3080	3500	2460	1570	808	59	45	53
9	613	239	499	652	2930	3200	2360	1490	771	55	52	55
10	473	226	466	1120	3900	3000	2390	1500	771	55	45	53
11	466	177	448	1100	3640	2800	2570	1510	660	104	53	55
12	448	165	442	696	2990	3100	2680	1490	352	122	55	55
13	442	165	436	552	3260	4700	2580	1430	320	128	53	53
14	436	181	436	710	3520	4800	2410	1560	407	98	63	53
15	331	197	425	1810	2930	4200	2340	1360	384	93	63	57
16	300	226	425	1160	2680	4530	2300	1250	320	86	66	57
17	272	231	425	1760	5720	6240	2180	1140	267	93	68	59
18	257	231	425	2860	9610	4950	1930	1150	231	86	70	55
19	281	272	430	2200	6970	4040	1760	1170	214	84	76	52
20	286	315	442	1820	18600	3480	1630	1260	226	86	86	50
21	267	336	436	1570	19000	3180	1550	1440	205	81	104	52
22	286	336	419	1450	15000	3040	1430	1400	161	72	113	53
23	281	341	407	1440	14000	2950	1340	1300	110	64	110	52
24	286	336	396	1460	13000	2900	1300	1150	100	61	104	50
25	272	286	396	1400	10600	2880	1300	1040	92	61	84	50
26	209	193	401	1360	8500	3170	1330	1100	80	57	74	50
27	177	218	401	1320	7200	3090	1390	1100	74	58	81	49
28	205	248	396	1300	6800	2910	1490	1070	66	44	79	47
29	253	374	290	1270	6400	3040	1560	1060	63	44	72	44
30	235	583	413	5850	---	3360	1750	1000	66	41	64	45
31	262	---	413	3500	---	3580	---	995	---	44	59	---
TOTAL	11871	7796	14543	42297	193480	115190	65720	43745	12583	2244	2056	1603
MEAN	383	260	469	1364	6672	3716	2191	1411	419	72.4	66.3	53.4
MAX	728	583	895	5850	19000	6240	3700	1980	925	128	113	63
MIN	177	165	290	413	2260	2800	1300	995	63	41	44	44
AC-FT	23550	15460	28850	83900	383800	228500	130400	86770	24960	4450	4080	3180

CAL YR 1967 TOTAL 1247289 MEAN 3417 MAX 28100 MIN 165 AC-FT 2474000
WTR YR 1968 TOTAL 513128 MEAN 1402 MAX 19000 MIN 41 AC-FT 1018000

11421000 YUBA RIVER NEAR MARYSVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	362	512	1250	10700	11000	6230	8740	5970	227	47	61
2	38	407	506	1060	10400	8900	6010	8030	6100	234	47	66
3	38	736	473	1090	9890	7540	5680	2580	5640	224	48	62
4	38	629	460	1440	9600	4720	7010	2160	2790	158	47	64
5	36	499	460	1420	11700	4420	8520	2010	2690	122	48	66
6	38	473	466	1540	12300	4320	9520	2150	2540	106	48	66
7	39	473	480	1500	10300	4220	8160	2470	2400	96	51	69
8	35	460	486	1460	9500	4130	7970	2730	2190	82	54	76
9	32	436	492	1420	10500	4040	8800	3130	2060	69	51	75
10	29	430	525	1460	10500	3860	7460	3770	1870	58	45	71
11	32	425	1000	1900	10100	3590	5200	4520	1490	49	51	76
12	163	583	613	4910	14700	3500	5360	5320	1090	45	49	84
13	253	499	554	12200	11700	3500	5570	5420	921	44	51	84
14	189	460	1090	12200	10900	3410	5360	6570	1010	49	55	80
15	167	583	1040	6190	17200	3410	5080	13000	1010	47	60	80
16	460	532	1090	4560	15400	3520	4150	11800	1220	51	67	86
17	480	486	693	3900	11900	3600	2870	11700	1640	52	76	84
18	460	506	1160	3470	11100	3800	3200	12300	1440	48	62	96
19	448	539	1860	14700	10300	3850	3240	12500	1080	47	56	96
20	442	499	1320	33200	9760	3960	3200	12100	907	48	58	102
21	413	486	955	39900	9500	4010	3430	11700	795	51	61	106
22	396	480	1100	24600	8930	3860	3600	11900	809	49	61	110
23	401	473	1140	13100	9550	3730	3810	11800	670	48	59	108
24	401	486	1930	10400	10300	3720	3900	9450	460	45	64	110
25	390	492	5570	15600	10800	3520	4540	9160	320	45	54	116
26	357	473	4380	34800	9630	2330	9340	8170	328	47	58	118
27	320	460	2730	27600	8590	2430	9000	8040	248	45	61	114
28	315	454	2600	20200	10400	3270	8820	8200	234	47	59	114
29	331	454	2570	16000	---	3610	8820	6630	234	44	66	108
30	357	499	2080	13200	---	3900	8870	6340	230	44	61	102
31	357	---	1520	11200	---	4580	---	6010	---	47	64	---
TOTAL	7499	14774	41855	337470	306150	132250	182720	230400	50386	2368	1739	2650
MEAN	242	492	1350	10890	10930	4266	6091	7432	1680	76.4	56.1	88.3
MAX	480	736	5570	39900	17200	11000	9520	13000	6100	234	76	118
MIN	29	362	460	1060	8590	2330	2870	2010	230	44	45	61
AC-FT	14870	29300	83020	669400	607200	262300	362400	457000	99940	4700	3450	5260

CAL YR 1968 TOTAL 543046 MEAN 1484 MAX 19000 MIN 29 AC-FT 1077000
WTR YR 1969 TOTAL 1310261 MEAN 3590 MAX 39900 MIN 29 AC-FT 2599000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96	102	168	688	8890	7970	1150	2850	1770	299	937	1700
2	90	110	168	664	5970	6930	951	2770	388	235	943	1890
3	88	114	218	640	7910	5050	930	2780	602	227	948	1910
4	80	138	218	624	5010	6860	909	2800	909	231	948	1920
5	84	185	176	612	4810	5330	888	2760	1580	224	953	1940
6	80	262	173	607	7060	3870	854	2770	671	218	951	1960
7	75	248	176	602	4190	4080	788	2400	764	216	948	1960
8	78	234	176	607	3390	6520	740	763	706	222	948	2260
9	80	221	209	701	3490	5040	690	711	368	231	957	3270
10	78	206	212	1260	3770	7280	590	1210	965	219	949	3170
11	100	209	320	935	3410	5960	521	2960	1310	214	944	3120
12	130	206	276	994	4790	5640	467	3060	860	218	947	2990
13	145	200	320	3690	5820	5840	420	3080	842	204	948	2910
14	148	179	230	14700	6770	4560	380	3140	836	199	955	2840
15	194	179	179	10100	5300	4420	364	3110	830	187	956	2820
16	293	176	220	18100	4950	4000	346	3090	818	198	961	2700
17	251	173	432	35500	8900	4110	332	3080	818	201	953	2540
18	197	176	349	23500	7720	3650	318	1980	806	194	947	2410
19	175	182	435	16700	5860	3840	304	1830	764	197	948	2370
20	160	182	1110	19700	3690	3940	290	1560	763	352	922	2410
21	145	176	1960	47900	4010	3910	278	1520	763	902	1370	1380
22	135	173	893	90200	3680	3720	272	1500	761	934	1400	294
23	120	168	1030	40300	3550	3840	242	1410	766	936	1430	224
24	120	168	13300	63900	4530	3790	245	1400	754	920	1560	166
25	125	200	8210	35600	4080	3560	251	1370	753	917	1910	178
26	135	197	4280	19500	4080	2830	269	1270	624	942	1910	316
27	145	200	2300	21700	4050	1130	284	493	314	951	1940	596
28	148	173	1570	13100	4080	1000	1870	400	294	950	1890	764
29	135	168	1170	16700	---	1010	2680	350	300	953	1870	749
30	135	170	928	18200	---	1860	2740	1850	314	959	1860	1030
31	116	---	767	11500	---	2060	---	2340	---	944	1070	---
TOTAL	4081	5475	42173	529524	143760	133600	21363	62607	23013	14794	37123	54817
MEAN	132	183	1360	17080	5134	4310	712	2020	767	477	1198	1827
MAX	293	262	13300	90200	8900	7970	2740	3140	1770	959	1940	3270
MIN	75	102	168	602	3390	1000	242	350	294	187	922	166
AC-FT	8090	10860	83650	1050000	285100	265000	42370	124200	45650	29320	73630	108700

CAL YR 1969 TOTAL 1297862 MEAN 3556 MAX 39900 MIN 44 AC-FT 2574000
WTR YR 1970 TOTAL 1072380 MEAN 2938 MAX 90200 MIN 75 AC-FT 2127000

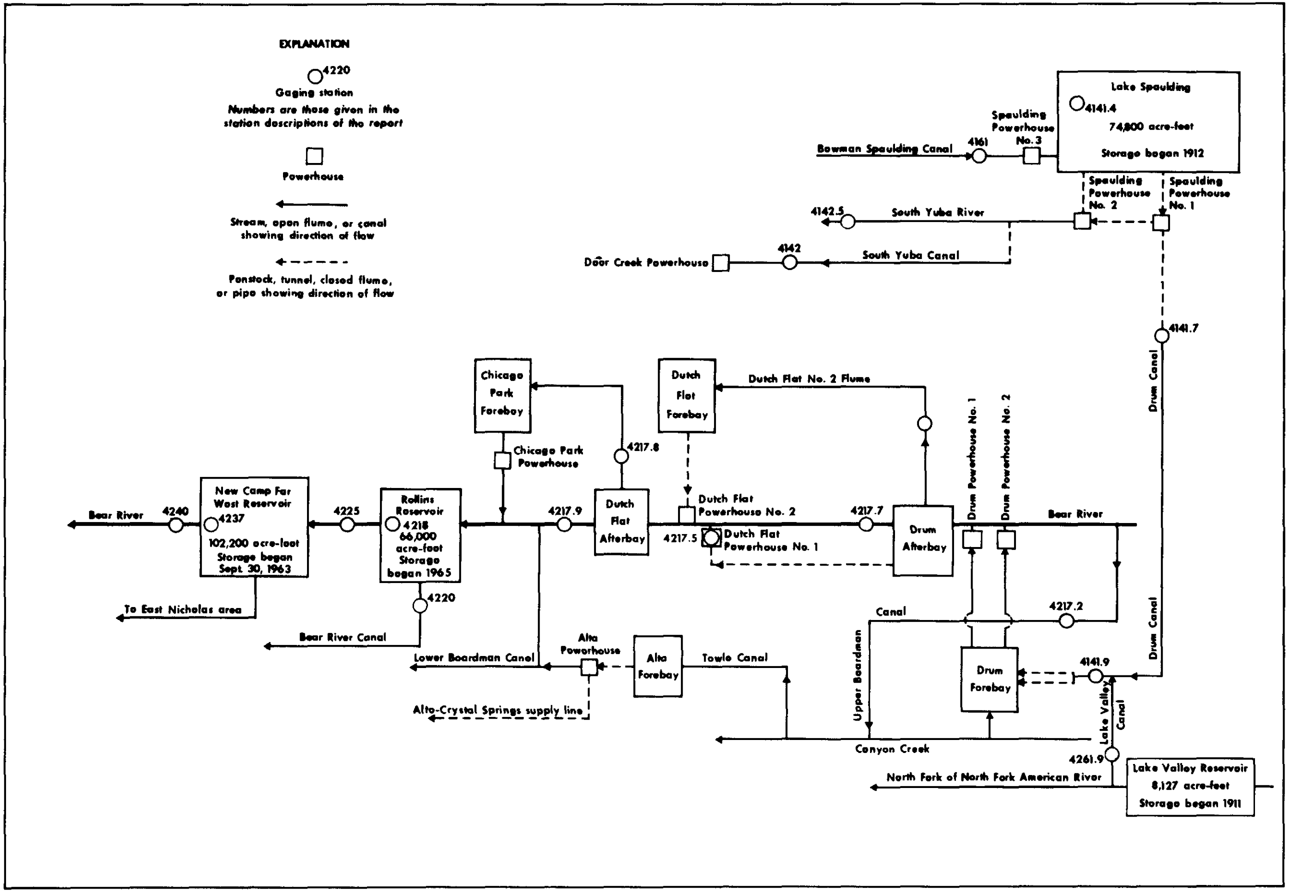

EXPLANATION
4220
Gaging station
Numbers are those given in the station descriptions of the report
Powerhouse
Stream, open flume, or canal showing direction of flow
Penstock, tunnel, closed flume, or pipe showing direction of flow
Lake Spaulding
4141.4
74,800 acre-feet
Storage began 1912
Spaulding Powerhouse No. 3
4161
Bowman Spaulding Canal
Spaulding Powerhouse No. 2
Spaulding Powerhouse No. 1
4142.5
South Yuba River
4142
South Yuba Canal
Deer Creek Powerhouse
4141.7
Drum Canal
Dutch Flat No. 2 Flume
Chicago Park Forebay
Chicago Park Powerhouse
4217.8
Dutch Flat Forebay
Dutch Flat Powerhouse No. 2
Dutch Flat Powerhouse No. 1
4217.5
4217.7
Drum Powerhouse No. 1
Drum Powerhouse No. 2
Bear River
Drum Afterbay
New Camp Far West Reservoir
4237
102,200 acre-feet
Storage began Sept. 30, 1963
4240
Bear River
4225
Rollins Reservoir
4218
66,000 acre-feet
Storage began 1965
4217.9
Dutch Flat Afterbay
4220
Bear River Canal
To East Nicholas area
Lower Boardman Canal
Alta Powerhouse
Alta Forebay
Towle Canal
Alta-Crystal Springs supply line
Canal
Upper Boardman
4217.2
Drum Forebay
4141.9
Drum Canal
Lake Valley Canal
Canyon Creek
4261.9
North Fork of North Fork American River
Lake Valley Reservoir
8,127 acre-feet
Storage began 1911

FIGURE 7.--Schematic diagram showing diversions and storage in Bear River basin.

11421700 FEATHER RIVER BELOW SHANGHAI BEND, NEAR OLIVEHURST, CALIF.

LOCATION.--Lat 39°04'44", long 121°36'08", in New Helvetia Grant, Sutter County, on right bank 1.5 miles downstream from Shanghai Bend, 3.0 miles southeast of Olivehurst, and 3.4 miles south of Yuba City.

DRAINAGE AREA.--5,334 sq mi.

PERIOD OF RECORD.--October 1969 to September 1970. June 1944 to September 1969 in reports of California Department of Water Resources.

GAGE.--Water-stage recorder. Datum of gage is 3.01 ft below mean sea level (levels by California Department of Water Resources).

EXTREMES.--Maximum discharge during water year 1970, 133,000 cfs Jan. 22 (gage height, 62.55 ft); minimum daily, 2,030 cfs July 8.

REMARKS.--Flow regulated by many reservoirs and powerplants. See Feather River at Lake Oroville (station 11407000) and schematic diagrams of South Fork Feather River, North Fork Feather River, and Yuba River basins elsewhere in this report.

COOPERATION.--Records furnished by California Department of Water Resources and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3470	3410	3720	17600	38900	16400	4830	4770	3750	2290	3660	5850
2	3350	3350	3870	16400	29000	24900	4330	4810	2330	2180	3790	6210
3	3340	3360	3910	14400	24800	21200	4240	4670	2160	2110	4050	6260
4	3340	3440	3950	13700	19200	21300	4120	4780	2760	2120	4350	6290
5	3280	3530	4010	11300	16100	21000	4010	4770	3790	2110	4650	6300
6	3240	3640	4020	6150	17000	19400	3940	4820	2810	2070	4820	6330
7	3250	3620	4040	5170	15400	18600	3750	4830	2770	2040	4890	6310
8	3250	3590	4310	5040	13800	21100	3660	3370	2720	2030	4890	6320
9	3250	3520	4450	5210	13500	21100	3560	2730	2530	2070	4900	7440
10	3240	3500	4530	6870	13800	22500	3490	3010	2730	2120	4960	7440
11	3230	3550	4970	10200	13000	22500	3420	4740	3300	2040	5040	7360
12	3260	3550	5510	12300	14300	21400	3310	4970	2830	2060	5230	7320
13	3430	3550	6070	16100	15400	21000	3260	5070	2720	2070	5270	7160
14	3170	3550	6500	32400	20600	18100	3130	5010	2710	2060	5270	7110
15	3210	3550	6540	62800	21700	17400	3020	5060	2710	2080	5430	7010
16	3490	3670	6560	81500	19300	16500	2940	5030	2630	2100	5450	6840
17	3430	3890	6670	110000	22700	13600	2910	4940	2590	2120	5440	6680
18	3390	3920	6510	95800	23700	13200	2790	4310	2590	2130	5430	6530
19	3320	3930	6680	83400	21200	12600	2570	3770	2580	2120	5430	6520
20	3360	3930	7760	82100	18700	10900	2490	3750	2560	2150	5430	6490
21	3390	3930	9390	83500	18300	7980	2480	3520	2550	2830	5610	5960
22	3390	3930	9370	126000	18200	7450	2460	3520	2570	2950	5810	4610
23	3400	3930	7660	101000	18000	7140	2440	3410	2560	2970	5820	4420
24	3400	3920	18400	117000	18300	6950	2470	3330	2520	2940	5890	4380
25	3380	3950	30500	105000	18800	6490	2370	3310	2530	2960	6150	4340
26	3390	3810	29000	88100	15100	5930	2320	3260	2540	3000	6330	4490
27	3410	3760	25800	85700	13500	4270	2370	2620	2250	3060	6410	4830
28	3440	3720	24000	79000	13400	3990	3280	2270	2180	3110	6430	4820
29	3430	3740	23100	68300	---	4080	4630	2240	2240	3310	6390	4510
30	3420	3720	22600	66200	---	4900	4600	3210	2260	3470	6370	3960
31	3430	---	22000	50900	---	5360	---	3950	---	3520	5960	---
TOTAL	103780	110460	326400	1659140	525700	439240	99190	123850	79770	76190	165550	180090
MEAN	3348	3682	10530	53520	18780	14170	3306	3995	2659	2458	5340	6003
MAX	3490	3950	30500	126000	38900	24900	4830	5070	3790	3520	6430	7440
MIN	3170	3350	3720	5040	13000	3990	2320	2240	2160	2030	3660	3960
AC-FT	205800	219100	647400	3291000	1043000	871200	196700	245700	158200	151100	328400	357200

WTR YR 1970 TOTAL 3889360 MEAN 10660 MAX 126000 MIN 2030 AC-FT 7715000

11421720 BOARDMAN CANAL NEAR EMIGRANT GAP, CALIF.

LOCATION.--Lat 39°17'49", long 120°42'08", in SE¼NE¼ sec.35, T.17 N., R.11 E., Placer County, on right bank 0.4 mile downstream from Boardman diversion dam and 1.8 miles west of Emigrant Gap. Prior to June 14, 1967, at site 0.2 mile downstream.

PERIOD OF RECORD.--October 1964 to September 1970.

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is 5,020 ft (from topographic map). Prior to June 14, 1967, water-stage recorder 0.2 mile downstream at different datum.

EXTREMES.--Period of record: Maximum daily discharge, 43 cfs Dec. 21, 1964; no flow for several days in most years .

REMARKS.--Water is diverted from Bear River to be used for power development and irrigation in Bear River basin. No gage-height record Dec. 29, 1965, to Mar. 8, 1966. See schematic diagram of Bear River basin elsewhere in this report.

COOPERATION.--Water-stage recorder graph and 24 discharge measurements for the water years 1966-67 furnished by Pacific Gas & Electric Co., in connection with a Federal Power Commission project. Records for water years 1968-70 collected by Pacific Gas & Electric Co., under general supervision of the Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	30	32	25	25	23	20	17	23	25	28	29
2	40	30	33	25	23	23	20	16	23	26	27	28
3	41	30	33	25	23	23	19	16	24	26	27	28
4	41	30	32	25	23	23	19	15	24	24	27	28
5	40	30	31	25	23	23	19	16	24	24	27	28
6	40	30	28	25	23	23	19	19	24	26	27	27
7	41	30	27	25	23	23	18	31	24	27	27	27
8	41	30	27	25	23	23	19	33	24	28	27	27
9	35	31	26	25	23	23	18	32	24	29	29	27
10	30	30	25	25	23	23	18	33	25	30	32	27
11	30	28	25	25	23	23	18	25	24	30	34	27
12	30	28	25	25	23	23	17	21	24	29	34	28
13	30	28	25	25	23	23	17	24	24	28	34	28
14	32	28	25	25	23	23	17	24	26	27	34	28
15	32	28	25	25	23	23	16	24	27	27	34	27
16	32	28	25	25	23	26	16	24	22	27	34	28
17	32	27	26	25	23	28	16	24	30	26	33	29
18	32	27	26	25	23	28	15	24	30	26	32	29
19	32	27	26	25	23	28	15	24	30	26	32	28
20	32	27	26	25	23	28	15	24	29	27	32	27
21	32	27	32	25	23	26	16	24	29	28	32	26
22	31	27	39	25	23	27	18	24	30	28	31	27
23	31	27	39	25	23	25	18	24	29	27	31	31
24	31	29	39	25	23	25	18	24	28	27	32	29
25	31	32	39	25	23	25	19	24	28	28	32	28
26	31	32	39	25	23	25	19	24	28	27	32	27
27	31	32	40	25	23	25	18	24	29	27	32	27
28	30	32	38	25	23	25	18	24	27	28	32	26
29	30	32	25	25	---	25	18	24	26	28	32	26
30	30	32	25	25	---	20	17	23	25	28	32	27
31	30	---	25	25	---	20	---	23	---	28	30	---
TOTAL	1040	879	928	775	646	751	530	728	784	842	959	829
MEAN	33.5	29.3	29.9	25.0	23.1	24.2	17.7	23.5	26.1	27.2	30.9	27.6
MAX	41	32	40	25	25	28	20	33	30	30	34	31
MIN	30	27	25	25	23	20	15	15	22	24	27	26
AC-FT	2060	1740	1840	1540	1280	1490	1050	1440	1560	1670	1900	1640

CAL YR 1965 TOTAL 9574.20 MEAN 26.2 MAX 41 MIN .00 AC-FT 18990
WTR YR 1966 TOTAL 9691.00 MEAN 26.6 MAX 41 MIN 15 AC-FT 19220

11421720 BOARDMAN CANAL NEAR EMIGRANT GAP, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	28	0	20	19	20	15	16	15	24	24	28
2	27	28	0	20	19	20	15	16	15	24	24	28
3	27	28	0	20	19	20	15	16	15	24	24	28
4	27	28	0	20	19	23	15	16	15	25	24	28
5	28	28	0	20	19	25	15	16	15	25	24	28
6	28	28	0	20	19	24	15	16	15	25	24	28
7	28	28	0	20	20	24	15	16	15	24	24	28
8	28	28	0	20	19	25	15	15	15	24	24	28
9	28	28	0	20	20	25	15	15	15	24	24	28
10	27	28	0	20	20	26	15	15	15	24	24	28
11	28	28	0	21	20	25	15	15	16	24	24	28
12	28	28	0	21	20	24	15	15	15	24	26	28
13	28	28	0	20	20	25	14	15	15	24	28	28
14	28	9.2	0	21	20	26	14	16	12	24	28	28
15	28	0	0	21	20	24	14	16	12	24	28	28
16	28	0	0	20	20	14	14	16	12	24	28	28
17	27	0	0	20	20	5.0	13	15	12	24	28	28
18	28	0	0	20	20	4.0	13	15	11	24	28	28
19	28	0	0	20	20	3.7	13	15	11	24	28	28
20	28	0	12	22	19	3.4	15	15	15	24	28	28
21	28	0	21	25	19	17	17	15	17	24	29	28
22	28	0	20	10	19	28	17	15	17	24	28	28
23	28	0	20	19	19	22	16	15	17	24	28	29
24	28	0	21	19	19	16	16	15	17	24	28	29
25	28	0	21	20	20	16	15	15	17	24	28	29
26	28	0	21	21	20	16	14	15	17	24	28	29
27	28	0	20	21	20	16	14	15	17	24	28	29
28	28	0	19	21	20	16	16	15	17	24	28	29
29	28	0	20	20	---	16	16	15	22	24	28	29
30	28	0	20	20	---	16	16	15	24	24	28	29
31	28	---	20	19	---	15	---	15	---	24	28	---
TOTAL	862	373.2	235	621	548	580.1	447	475	463	747	823	848
MEAN	27.8	12.4	7.58	20.0	19.6	18.7	14.9	15.3	15.4	24.1	26.5	28.3
MAX	28	28	21	25	20	28	17	16	24	25	29	29
MIN	27	0	0	10	19	3.4	13	15	11	24	24	28
AC-FT	1710	740	466	1230	1090	1150	887	942	918	1480	1630	1680

CAL YR 1966 TOTAL 8314.2 MEAN 22.8 MAX 34 MIN 0 AC-FT 16490
WTR YR 1967 TOTAL 7022.3 MEAN 19.2 MAX 29 MIN 0 AC-FT 13930

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	0	23	14	23	35	30	21	23	26	27	26
2	29	0	23	14	22	35	24	21	23	27	27	26
3	29	9.2	23	14	21	35	30	20	23	28	27	26
4	29	29	24	14	20	35	35	20	23	27	27	27
5	29	29	24	14	20	35	35	20	24	28	28	27
6	29	9.2	24	14	20	35	35	20	24	28	28	27
7	29	.36	23	14	20	35	35	20	23	27	28	27
8	29	.12	23	14	20	36	35	20	23	28	28	27
9	29	0	23	14	22	35	35	22	23	28	28	27
10	29	12	23	13	20	35	35	26	23	28	27	29
11	29	29	23	13	20	35	35	26	23	28	27	30
12	29	29	22	11	20	34	35	25	22	28	27	29
13	28	29	19	11	20	35	35	27	22	28	31	27
14	28	29	19	15	19	35	35	27	23	28	31	27
15	28	29	19	19	19	35	25	26	22	28	30	26
16	28	29	18	18	20	35	22	20	22	28	30	26
17	28	29	17	16	19	34	26	25	22	28	33	27
18	28	29	17	14	12	34	27	25	22	28	33	28
19	28	30	17	14	15	34	27	25	22	27	34	28
20	28	29	16	14	14	35	26	25	23	27	28	28
21	28	29	16	14	14	35	24	25	23	27	26	28
22	28	28	15	14	12	35	25	25	23	27	26	28
23	9.2	25	15	14	14	35	24	25	23	27	26	28
24	.75	24	17	14	10	37	23	25	22	28	26	28
25	.36	23	19	14	9.5	36	23	25	25	29	26	28
26	0	23	17	14	14	34	22	24	26	29	26	28
27	9.6	14	15	16	30	36	22	24	26	29	27	28
28	27	23	14	17	36	38	22	24	26	29	27	28
29	24	23	14	23	35	38	21	24	26	29	27	27
30	8.4	23	14	28	---	35	21	24	26	28	27	28
31	.38	---	14	25	---	35	---	23	---	27	27	---
TOTAL	705.69	614.88	590	477	560.5	1091	849	729	701	862	870	824
MEAN	22.8	20.5	19.0	15.4	19.3	35.2	28.3	23.5	23.4	27.8	28.1	27.5
MAX	29	30	24	28	36	38	35	27	26	29	34	30
MIN	0	0	14	11	9.5	34	21	20	22	26	26	26
AC-FT	1400	1220	1170	946	1110	2160	1680	1450	1390	1710	1730	1630

CAL YR 1967 TOTAL 7462.67 MEAN 20.4 MAX 30 MIN 0 AC-FT 14800
WTR YR 1968 TOTAL 8874.07 MEAN 24.2 MAX 38 MIN 0 AC-FT 17600

11421720 BOARDMAN CANAL NEAR EMIGRANT GAP, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	27	20	20	19	20	16	19	24	26	29	30
2	28	24	20	21	19	20	20	19	24	26	30	30
3	28	21	20	21	19	19	22	19	24	26	30	30
4	28	20	21	21	19	19	21	19	24	26	30	30
5	29	20	20	22	18	19	21	19	24	26	29	30
6	29	21	21	22	12	19	21	19	24	26	29	30
7	29	21	21	22	11	18	21	20	24	26	30	31
8	30	21	21	22	17	18	21	20	24	26	30	30
9	30	21	21	22	20	18	21	20	24	26	30	30
10	30	21	23	22	18	18	21	19	24	26	30	30
11	30	21	22	22	20	21	22	19	24	26	30	30
12	28	22	21	23	20	23	22	19	22	26	30	31
13	25	19	21	19	19	23	22	19	21	26	30	31
14	7.8	20	22	7.6	19	23	21	18	21	26	30	31
15	.52	20	23	14	20	23	21	22	21	26	30	31
16	.48	20	22	23	19	23	21	23	21	26	30	31
17	.45	20	21	23	19	23	21	23	21	26	30	31
18	11	20	21	24	20	23	21	22	21	26	30	31
19	25	20	21	22	20	23	21	22	21	27	30	31
20	26	20	21	16	20	23	20	23	20	27	30	31
21	7.3	20	21	16	20	23	20	22	20	28	30	31
22	.21	20	21	17	20	23	20	23	21	28	30	31
23	.01	20	21	19	18	23	20	23	21	29	30	30
24	0	20	21	17	20	16	20	23	20	29	30	31
25	0	20	17	12	19	14	20	22	21	30	30	31
26	0	20	18	11	20	15	20	23	22	32	30	31
27	0	20	21	11	19	15	20	23	24	32	30	31
28	0	20	21	16	20	15	20	23	25	32	30	31
29	0	20	20	20	---	15	20	23	25	30	30	31
30	15	20	20	20	---	16	20	24	25	29	30	31
31	27	---	20	19	---	16	---	24	---	28	30	---
TOTAL	491.77	619	644	586.6	524	607	617	656	677	849	927	919
MEAN	15.9	20.6	20.8	18.9	18.7	19.6	20.6	21.2	22.6	27.4	29.9	30.6
MAX	30	27	23	24	20	23	22	24	25	32	30	31
MIN	0	19	17	7.6	11	14	16	18	20	26	29	30
AC-FT	975	1230	1280	1160	1040	1200	1220	1300	1340	1680	1840	1820

CAL YR 1968 TOTAL 8718.27 MEAN 23.8 MAX 38 MIN 0 AC-FT 17290
WTR YR 1969 TOTAL 8117.37 MEAN 22.2 MAX 32 MIN 0 AC-FT 16100

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	20	33	17	10	22	21	22	26	27	33	32
2	31	20	33	17	9.9	21	21	20	26	28	33	33
3	31	20	33	16	14	21	19	20	26	29	33	32
4	31	21	33	16	16	21	22	20	26	29	32	33
5	15	24	33	15	16	21	22	20	26	29	29	33
6	2.1	24	33	15	15	21	22	20	26	29	29	32
7	.17	24	33	15	15	21	22	20	26	27	29	32
8	.09	23	33	16	15	21	22	23	26	26	29	32
9	.06	23	33	16	15	21	22	25	26	27	29	32
10	.06	22	33	16	15	21	20	25	26	28	31	32
11	.03	22	24	16	15	21	19	25	26	28	33	32
12	.03	22	19	16	15	21	20	25	26	28	33	31
13	.03	22	19	16	21	21	20	25	26	29	33	30
14	.03	22	19	11	26	21	20	25	26	29	33	30
15	.45	22	20	11	26	21	20	25	26	31	33	30
16	.90	22	23	4.1	27	21	20	24	25	35	33	31
17	.33	22	26	.90	27	21	20	24	25	35	32	31
18	.22	22	26	.66	26	21	20	24	26	35	32	31
19	.22	22	20	.74	23	21	20	24	25	35	31	31
20	.17	23	14	.74	21	21	19	24	25	35	32	31
21	12	22	12	1.3	21	21	19	24	25	33	32	33
22	20	22	15	.59	21	21	18	24	25	30	32	35
23	19	22	21	.59	21	21	17	24	26	30	32	32
24	19	22	14	.59	21	21	17	24	30	30	32	30
25	20	22	12	7.0	21	21	25	24	29	30	34	31
26	20	26	20	10	21	21	26	24	27	30	37	33
27	20	30	23	7.7	21	21	26	25	27	31	37	30
28	20	32	21	7.9	21	21	26	26	27	30	37	28
29	20	33	19	10	---	21	26	26	27	33	37	24
30	20	33	17	10	---	21	26	26	27	34	37	24
31	19	---	17	10	---	21	---	26	---	33	36	---
TOTAL	352.89	706	731	301.81	535.9	652	637	733	786	943	1015	931
MEAN	11.4	23.5	23.6	9.74	19.1	21.0	21.2	23.6	26.2	30.4	32.7	31.0
MAX	31	33	33	17	27	22	26	26	30	35	37	35
MIN	.03	20	12	.59	9.9	21	17	20	25	26	29	24
AC-FT	700	1400	1450	599	1060	1290	1260	1450	1560	1870	2010	1850

CAL YR 1969 TOTAL 8152.49 MEAN 22.3 MAX 33 MIN .03 AC-FT 16170
WTR YR 1970 TOTAL 8324.60 MEAN 22.8 MAX 37 MIN .03 AC-FT 16510

11421750 DUTCH FLAT NO. 1 POWERPLANT NEAR DUTCH FLAT, CALIF.

LOCATION.--Lat 39°13'02", long 120°50'04", in SW¼SE¼ sec.27, T.16 N., R.10 E., Placer County, at powerplant 0.8 mile north of Dutch Flat.

PERIOD OF RECORD.--October 1964 to September 1970.

GAGE.--Recorded powerplant output.

EXTREMES.--Period of record: Maximum daily discharge, 548 cfs for several days in January, February, April 1965; no flow for many days in each year.

REMARKS.--Water is diverted from Drum Afterbay through a tunnel to Dutch Flat No. 1 powerplant and returned to Dutch Flat Afterbay. See schematic diagram of Bear River basin elsewhere in this report.

COOPERATION.--Records collected by Pacific Gas & Electric Co., in connection with a Federal Power Commission project.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	63	411	540	526	240	515	193	0	52	63	169
2	0	55	307	545	329	248	524	248	0	45	147	168
3	0	63	281	543	334	329	516	179	0	45	151	166
4	0	65	266	538	439	326	518	110	55	45	151	165
5	0	65	303	542	395	328	503	99	58	32	154	166
6	0	68	287	539	380	348	247	96	58	45	151	168
7	0	286	466	542	357	340	247	85	26	0	154	168
8	0	463	364	538	361	366	273	83	68	0	147	168
9	0	421	239	545	398	371	278	141	80	0	153	166
10	76	377	351	538	229	425	243	252	0	0	152	164
11	82	513	287	539	236	497	288	268	26	32	152	166
12	58	505	292	533	261	479	260	239	0	16	139	186
13	88	521	289	528	252	507	357	233	26	0	148	85
14	85	518	419	523	255	527	285	135	16	0	149	0
15	105	525	278	529	343	522	284	87	0	0	167	126
16	99	528	346	532	342	526	234	202	0	0	167	0
17	45	532	186	530	330	530	252	237	52	16	165	80
18	98	536	243	535	325	531	355	286	37	41	164	115
19	82	521	195	529	157	534	321	236	37	85	164	0
20	70	541	432	533	163	530	243	142	37	87	166	76
21	96	532	217	529	176	531	222	99	41	65	167	98
22	96	544	399	511	178	531	222	99	41	92	165	0
23	98	495	199	530	188	538	222	125	41	76	166	60
24	96	308	154	524	374	533	226	216	52	72	166	60
25	99	529	191	229	371	533	225	294	45	72	169	63
26	96	529	190	68	184	526	222	521	55	80	167	60
27	105	543	184	219	159	528	236	424	45	68	167	98
28	111	535	188	528	174	526	254	202	45	63	164	65
29	111	530	210	330	---	529	379	192	45	55	167	60
30	109	541	285	406	---	524	272	83	37	68	165	63
31	92	---	543	450	---	514	---	0	---	60	167	---
TOTAL	1997	12252	9002	15045	8216	14317	9223	5806	1023	1312	4834	3129
MEAN	64.4	408	290	485	293	462	307	187	34.1	42.3	156	104
MAX	111	544	543	545	526	538	524	521	80	92	169	186
MIN	0	55	154	68	157	240	222	0	0	0	63	0
AC-FT	3960	24300	17860	29840	16300	28400	18290	11520	2030	2600	9590	6210

CAL YR 1965 TOTAL 134396.00 MEAN 368 MAX 548 MIN 0 AC-FT 266600
WTR YR 1966 TOTAL 86156.00 MEAN 236 MAX 545 MIN 0 AC-FT 170900

11421750 DUTCH FLAT NO. 1 POWERPLANT NEAR DUTCH FLAT, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	61	70	52	437	0	282	289	324	297	246	119
2	206	58	203	45	332	207	273	308	317	247	201	177
3	68	58	395	52	268	524	280	315	316	334	262	112
4	169	58	233	45	335	256	280	348	300	289	250	107
5	165	58	395	52	261	45	336	343	295	359	206	116
6	68	45	330	45	232	92	296	335	335	193	201	110
7	63	434	394	141	0	198	315	364	281	309	203	121
8	61	502	306	143	0	184	312	470	330	310	232	119
9	61	514	236	152	0	45	298	340	273	293	264	119
10	63	514	314	170	0	32	312	439	320	302	226	150
11	63	495	280	171	0	16	332	436	292	301	233	203
12	63	536	222	152	0	16	321	376	295	299	223	213
13	63	512	271	159	0	16	343	349	306	251	221	173
14	58	510	266	169	0	16	316	375	362	325	232	199
15	68	500	230	149	0	45	326	371	260	274	196	193
16	61	531	232	171	0	199	333	425	296	281	149	41
17	61	514	230	155	0	290	317	413	285	318	157	0
18	58	510	231	155	0	37	325	405	296	283	216	173
19	58	482	232	152	0	16	322	386	307	280	237	179
20	63	525	202	132	0	32	311	367	276	255	252	185
21	63	531	219	205	0	0	341	389	310	296	219	179
22	61	529	203	215	0	0	296	353	281	292	156	177
23	65	506	0	26	0	0	283	358	322	250	133	179
24	37	128	45	243	0	0	299	360	260	313	135	179
25	37	0	45	209	0	0	356	301	317	280	133	168
26	76	55	52	206	0	58	330	326	319	287	133	174
27	41	63	52	240	0	129	294	321	290	289	124	171
28	68	45	45	276	0	0	294	271	280	273	133	183
29	55	0	52	455	---	0	252	361	335	317	126	176
30	63	0	52	528	---	109	300	257	281	288	112	174
31	68	---	52	528	---	268	---	340	---	249	125	---
TOTAL	2237	9274	6089	5593	1865	2830	9275	11091	9061	8934	5936	4569
MEAN	72.2	309	196	180	66.6	91.3	309	358	302	288	191	152
MAX	206	536	395	528	437	524	356	470	362	359	264	213
MIN	37	0	0	26	0	0	252	257	260	193	112	0
AC-FT	4440	18390	12080	11090	3700	5610	18400	22000	17970	17720	11770	9060

CAL YR 1966 TOTAL 80505.00 MEAN 221 MAX 545 MIN 0 AC-FT 159700
WTR YR 1967 TOTAL 76754.00 MEAN 210 MAX 536 MIN 0 AC-FT 152200

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	187	139	0	0	0		0	0		99	255	0
2	146	0	117	0	0		0	0		217	283	0
3	90	168	95	26	0		0	127		180	85	158
4	121	106	187	0	0		0	103		119	0	258
5	143	140	138	0	82		0	0		166	132	41
6	0	167	123	0	172		0	0		87	255	0
7	26	102	141	0	230		0	112		0	253	0
8	0	181	183	0	249		0	74		143	262	0
9	0	107	137	0	241		0	0		190	186	0
10	0	164	0	0	170		0	0		174	165	0
11	0	96	0	0	101		0	0		214	0	0
12	0	109	93	0	0		0	0		183	193	0
13	68	112	154	0	0		0	0		127	292	240
14	0	49	26	0	0		0	0		208	303	154
15	0	175	161	134	0		0	0		235	278	0
16	0	137	16	32	0		52	0		183	206	95
17	0	95	0	103	0		124	0		210	0	299
18	0	159	0	157	0		110	0		183	92	252
19	0	208	0	185	0		0	0		209	219	278
20	0	193	0	45	0		0	0		96	278	210
21	0	135	102	0	0		0	45		0	243	285
22	0	149	63	82	0		0	0		89	223	257
23	0	0	83	240	0		0	0		191	258	237
24	0	0	0	193	0		0	0		184	226	191
25	92	41	0	190	0		0	0		203	115	350
26	105	0	0	174	0		0	0		121	201	218
27	146	0	0	87	0		0	0		158	241	241
28	250	131	0	82	0		0	0		0	245	273
29	0	138	132	78	0		0	0		89	282	239
30	131	115	126	72	---		0	0		173	289	264
31	134	---	76	0	---		---	0	---	179	152	---
TOTAL	1639	3316	2153	1880	1245	0	286	461	0	4610	6212	4540
MEAN	52.9	111	69.5	60.6	42.9	0	9.53	14.9	0	149	200	151
MAX	250	208	187	240	249	0	124	127	0	235	303	350
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	3250	6580	4270	3730	2470	0	567	914	0	9140	12320	9010

CAL YR 1967 TOTAL 66262.00 MEAN 182 MAX 528 MIN 0 AC-FT 131400
WTR YR 1968 TOTAL 26342.00 MEAN 72.0 MAX 350 MIN 0 AC-FT 52250

11421750 DUTCH FLAT NO. 1 POWERPLANT NEAR DUTCH FLAT, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	268	282	0	173	374	268	378	425	346	252	252	185
2	294	161	177	158	350	275	491	472	439	283	279	226
3	184	0	93	58	364	299	485	447	251	303	265	256
4	307	0	0	101	259	303	432	402	338	219	255	249
5	191	171	0	63	353	278	470	423	349	308	290	310
6	316	138	103	112	244	371	462	357	348	300	266	253
7	235	138	89	146	206	332	454	0	376	287	239	243
8	336	179	0	280	256	320	433	0	333	283	293	65
9	277	161	0	202	233	312	428	43	354	317	274	0
10	222	155	118	0	276	312	431	0	349	263	321	0
11	271	283	170	0	317	0	431	0	348	233	321	0
12	276	450	223	0	243	0	456	412	364	315	179	0
13	262	521	219	190	286	0	459	398	356	274	256	0
14	289	518	0	261	331	114	456	400	354	263	353	0
15	250	521	0	218	254	275	411	368	348	311	273	0
16	280	521	83	305	330	278	423	332	349	324	258	49
17	256	521	116	315	315	292	424	379	375	306	231	78
18	205	525	109	132	210	261	417	367	358	275	278	0
19	240	521	107	270	383	261	438	365	386	275	278	0
20	270	503	112	537	271	61	405	353	354	247	255	187
21	260	448	128	528	340	49	421	344	365	331	256	245
22	283	525	129	535	292	92	432	334	364	256	275	325
23	261	521	114	394	289	122	482	352	371	256	255	320
24	237	461	109	356	286	78	378	312	333	295	294	289
25	233	496	203	484	296	0	402	347	374	252	287	338
26	275	0	153	541	303	0	382	316	348	383	280	327
27	262	0	115	415	297	0	415	382	364	233	283	244
28	258	0	157	417	297	0	386	344	357	284	271	299
29	270	0	127	394	---	377	465	351	356	290	270	364
30	255	0	131	386	---	362	436	370	296	273	168	325
31	256	---	152	379	---	380	---	356	---	286	164	---
TOTAL	8079	8720	3237	8350	8255	6072	12983	9751	10603	8777	8219	5177
MEAN	261	291	104	269	295	196	433	315	353	283	265	173
MAX	336	525	223	541	383	380	491	472	439	383	353	364
MIN	184	0	0	0	206	0	378	0	251	219	164	0
AC-FT	16020	17300	6420	16560	16370	12040	25750	19340	21030	17410	16300	10270

CAL YR 1968 TOTAL 39270.00 MEAN 107 MAX 525 MIN 0 AC-FT 77890
WTR YR 1969 TOTAL 98223.00 MEAN 269 MAX 541 MIN 0 AC-FT 194800

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	308	239	76	361	416	352	419	365	284		0	193
2	320	188	244	346	401	352	435	321	316		0	214
3	326	193	174	366	431	419	418	269	397		0	217
4	302	299	52	339	429	401	353	310	389		0	185
5	297	178	152	357	396	365	328	294	380		0	199
6	321	161	128	374	364	397	335	324	386		0	193
7	330	170	90	331	405	414	540	290	373		0	210
8	283	265	135	357	458	411	539	309	379		0	203
9	323	227	183	383	401	401	535	335	379		0	208
10	335	146	251	433	439	404	540	280	453		0	212
11	351	233	178	311	384	398	471	340	436		0	173
12	280	185	255	341	482	401	535	323	386		0	162
13	312	309	136	398	500	462	283	355	292		0	0
14	401	211	149	537	404	419	286	343	272		0	0
15	323	267	157	442	375	453	336	315	293		0	0
16	352	161	184	539	385	436	336	346	533		0	0
17	285	207	152	542	421	435	284	317	527		0	0
18	348	289	82	414	436	425	278	343	376		70	0
19	327	196	179	437	374	412	256	362	343		163	0
20	335	302	283	498	426	395	73	299	285		202	0
21	323	204	394	541	360	428	283	379	227		184	0
22	305	222	310	544	388	404	311	289	312		233	0
23	353	197	392	466	381	410	312	352	240		200	0
24	299	206	495	539	411	399	313	313	226		178	0
25	306	250	418	540	428	404	262	344	83		194	0
26	340	179	355	439	419	422	305	261	157		198	0
27	344	161	379	538	414	395	295	330	142		185	0
28	193	0	390	476	359	414	293	318	126		218	0
29	190	63	384	439	---	405	281	361	0		205	0
30	191	153	345	434	---	414	246	352	0		207	0
31	176	---	379	401	---	375	---	335	---		215	---
TOTAL	9479	6061	7481	13463	11487	12622	10481	10074	8992	0	2652	2369
MEAN	306	202	241	434	410	407	349	325	300	0	85.5	79.0
MAX	401	309	495	544	500	462	540	379	533	0	233	217
MIN	176	0	52	311	359	352	73	261	0	0	0	0
AC-FT	18800	12020	14840	26700	22780	25040	20790	19980	17840	0	5260	4700

CAL YR 1969 TOTAL 101208.00 MEAN 277 MAX 541 MIN 0 AC-FT 200700
WTR YR 1970 TOTAL 95161.00 MEAN 261 MAX 544 MIN 0 AC-FT 188800

11421760 DUTCH FLAT NO. 2 FLUME NEAR BLUE CANYON, CALIF.

LOCATION.--Lat 39°15'16", long 120°46'28", in SE¼NE¼ sec.18, R.16 N., R.11 E., Placer County, on left bank 600 ft downstream from Drum Afterbay and 3.6 miles west of Blue Canyon.

PERIOD OF RECORD.--October 1965 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 3,348.09 ft above mean sea level (levels by Nevada Irrigation District).

EXTREMES.--Period of record: Maximum daily discharge, 610 cfs Mar. 1, 1968; no flow for many days in each year.

REMARKS.--Records good. Water is diverted from Drum Afterbay through flume to Dutch Flat No. 2 powerplant and thence to Dutch Flat Afterbay. See schematic diagram of Bear River basin elsewhere in this report.

COOPERATION.--Two discharge measurements furnished by Pacific Gas & Electric Co.

DISCHARGE, IN CUBIC FEET PER SECOND, OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		1.0	204	0	100	0	108	447	127	227	442	425
2		1.0	283	0	275	0	203	461	147	269	351	365
3		1.0	456	0	130	0	203	404	148	254	380	151
4		1.0	458	0	138	0	203	264	147	256	356	166
5		1.0	455	0	208	0	375	278	147	248	379	166
6		1.0	428	0	218	0	484	197	149	246	226	341
7		1.0	219	0	220	0	473	158	147	248	190	353
8		16	370	0	212	0	474	158	118	277	281	363
9		1.0	516	0	147	0	430	229	447	276	372	343
10		1.0	265	0	210	0	477	265	360	251	374	156
11		1.0	380	0	147	0	473	256	157	251	369	189
12		1.0	345	0	0	0	474	273	151	255	354	316
13	7.1	1.0	345	0	0	0	318	279	226	282	168	41
14	1.0	1.0	258	0	0	0	474	396	218	276	189	41
15	1.0	25	428	0	0	0	476	396	238	296	363	41
16	1.0	1.0	464	0	0	0	474	285	158	232	309	41
17	1.0	1.0	578	0	0	0	477	254	142	260	381	40
18	1.0	1.0	579	0	0	0	274	261	128	292	392	67
19	40	1.0	579	0	0	0	478	307	161	194	325	108
20	23	39	562	0	0	0	480	455	161	261	175	65
21	1.0	1.0	541	13	0	0	477	465	157	349	189	69
22	1.0	85	356	62	0	0	480	458	157	223	296	412
23	1.0	127	582	40	0	0	480	494	155	222	400	412
24	1.0	278	588	117	0	0	480	529	146	216	400	454
25	1.0	92	584	380	0	0	480	186	146	285	400	421
26	1.0	92	589	454	0	0	469	59	147	266	373	424
27	1.0	84	596	180	0	0	459	59	197	209	156	396
28	1.0	73	598	107	0	0	460	77	257	239	150	476
29	1.0	76	599	238	---	60	346	79	268	281	321	418
30	1.0	185	234	198	---	55	442	151	282	245	396	448
31	1.0	---	0	80	---	27	---	269	---	263	336	---
TOTAL		1190.0	13439	1869	2005	142	12401	8849	5589	7949	9793	7708
MEAN		39.7	434	60.3	71.6	4.58	413	285	186	256	316	257
MAX		278	599	454	275	60	484	529	447	349	442	476
MIN		1.0	0	0	0	0	108	59	118	194	150	40
AC-FT		2360	26660	3710	3980	282	24600	17550	11090	15770	19420	15290

11421760 DUTCH FLAT NO. 2 FLUME NEAR BLUE CANYON, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	451	462	494	230	567	529	550	506	500	468	506	551
2	316	460	553	230	565	213	547	502	501	496	540	489
3	446	462	553	232	565	0	546	491	467	473	544	553
4	317	460	532	234	470	490	549	501	491	481	543	554
5	391	472	554	230	572	460	556	524	495	482	544	554
6	430	412	558	247	582	393	558	529	508	487	544	556
7	460	8.8	561	576	479	412	556	534	496	480	549	556
8	443	0	545	572	177	245	564	543	435	472	549	551
9	444	0	568	574	0	217	558	549	502	479	549	551
10	480	0	563	572	0	350	560	551	499	468	550	556
11	428	0	572	579	0	189	558	518	497	466	550	556
12	444	0	565	575	0	126	558	516	495	466	547	556
13	467	0	568	574	0	228	557	518	514	464	547	554
14	441	0	571	571	132	262	556	539	384	463	549	556
15	458	0	571	574	316	305	560	509	528	466	547	411
16	461	0	570	578	371	490	565	505	499	471	297	0
17	463	0	570	571	490	392	563	505	512	461	458	144
18	464	0	571	560	536	136	560	497	511	461	544	550
19	460	0	570	357	561	133	560	502	503	475	544	542
20	422	0	570	353	564	71	558	498	505	463	549	546
21	432	0	571	555	561	111	561	495	488	462	549	551
22	459	0	424	370	561	111	564	495	474	450	547	549
23	458	90	267	357	556	138	561	496	474	462	550	546
24	502	406	263	577	534	108	560	487	488	454	551	556
25	442	429	293	574	404	40	487	495	487	466	551	556
26	484	406	277	578	403	0	556	496	483	464	551	550
27	454	386	269	574	446	65	490	498	484	452	547	551
28	468	473	235	575	544	158	493	499	483	455	544	553
29	456	536	194	575	---	220	524	499	484	446	557	554
30	469	464	204	574	---	393	491	500	482	457	553	554
31	451	---	230	570	---	561	---	505	---	458	547	---
TOTAL	13761	5926.8	14406	14868	10956	7546	16426	15802	14669	14468	16597	15406
MEAN	444	198	465	480	391	243	548	510	489	467	535	514
MAX	502	536	572	579	582	561	565	551	528	496	557	556
MIN	316	0	194	230	0	0	487	487	384	446	297	0
AC-FT	27290	11760	28570	29490	21730	14970	32580	31340	29100	28700	32920	30560

CAL YR 1966 TOTAL 90398.80 MEAN 248 MAX 572 MIN 0 AC-FT 179300
WTR YR 1967 TOTAL 160831.80 MEAN 441 MAX 582 MIN 0 AC-FT 319000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	557	454	425	330	112	610	579	332	271	373	411	366
2	478	519	225	209	116	607	579	334	234	470	388	289
3	463	550	181	164	241	595	578	427	360	471	286	401
4	323	502	301	145	106	600	577	189	273	202	287	462
5	458	495	420	131	364	599	578	438	251	351	400	60
6	459	452	415	131	503	598	578	334	308	230	486	0
7	459	428	421	126	553	591	579	507	267	334	417	0
8	472	459	317	133	592	560	579	500	320	381	495	0
9	473	459	72	134	540	598	586	467	272	449	480	0
10	463	460	153	245	433	593	584	398	298	462	328	0
11	460	0	416	137	195	592	584	404	336	388	393	0
12	470	0	574	136	0	591	582	398	192	402	405	0
13	380	337	500	141	0	591	579	413	330	373	422	283
14	232	554	570	157	0	589	581	407	303	305	437	322
15	224	506	476	503	0	485	581	385	271	344	439	320
16	294	478	238	439	0	595	532	296	252	329	440	373
17	452	490	76	521	0	593	500	310	274	353	317	465
18	458	0	307	577	0	593	489	303	264	352	368	454
19	459	0	283	529	0	578	510	312	303	313	410	457
20	467	279	264	192	0	591	588	325	271	252	424	464
21	465	441	166	192	427	591	588	201	246	336	481	481
22	465	415	201	422	476	589	587	283	244	345	446	457
23	510	117	93	512	589	588	325	350	266	369	436	477
24	546	360	110	588	585	588	142	350	283	354	322	465
25	549	77	161	582	592	563	322	262	282	369	333	454
26	498	150	163	585	579	434	292	327	307	335	373	457
27	476	384	181	381	600	585	246	334	254	222	477	450
28	174	366	266	390	607	584	40	268	333	253	442	450
29	401	412	473	420	606	586	359	309	298	448	418	464
30	549	426	362	217	---	588	346	285	298	356	400	474
31	447	---	473	304	---	581	---	354	---	380	259	---
TOTAL	13581	10570	9283	9673	8816	18026	14570	10802	8461	10901	12420	9345
MEAN	438	352	299	312	304	581	486	348	282	352	401	312
MAX	557	554	574	588	607	610	588	507	360	471	495	481
MIN	174	0	72	126	0	434	40	189	192	202	259	0
AC-FT	26940	20970	18410	19190	17490	35750	28900	21430	16780	21620	24640	18540

CAL YR 1967 TOTAL 160172.00 MEAN 439 MAX 582 MIN 0 AC-FT 317700
WTR YR 1968 TOTAL 136448.00 MEAN 373 MAX 610 MIN 0 AC-FT 270600

11421760 DUTCH FLAT NO. 2 FLUME NEAR BLUE CANYON, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	474	426	167	327	471	484	539	557	524	466	462	390
2	470	214	115	375	469	479	540	557	525	482	470	379
3	469	329	265	312	512	446	541	557	527	483	468	485
4	477	314	159	206	579	447	476	559	534	463	485	469
5	470	434	249	339	480	460	542	557	512	460	455	478
6	462	469	224	572	577	434	544	512	504	455	479	498
7	464	413	198	453	575	418	544	557	515	452	488	447
8	440	384	96	179	571	416	543	557	523	419	445	88
9	434	257	326	272	539	418	544	557	512	437	464	0
10	436	262	232	347	525	374	535	558	519	469	463	0
11	510	17	372	283	454	317	545	558	518	480	465	0
12	485	0	376	328	562	287	545	558	518	466	486	0
13	463	0	422	421	489	210	546	558	517	467	484	0
14	475	0	322	547	526	293	548	542	525	447	425	0
15	468	0	340	461	533	522	548	557	530	452	493	78
16	473	0	291	516	527	461	547	553	508	446	492	40
17	481	0	297	480	506	469	549	509	557	371	488	18
18	472	0	358	322	508	482	549	515	533	487	492	0
19	477	0	358	575	525	329	550	527	516	482	489	.38
20	483	0	359	575	493	356	550	527	533	473	481	455
21	478	0	332	574	447	353	551	528	534	484	484	487
22	459	0	333	560	487	343	551	531	534	489	477	431
23	463	0	360	560	475	350	552	538	532	467	490	459
24	484	0	428	556	468	362	553	557	524	473	483	441
25	460	213	580	571	470	522	553	527	526	436	465	436
26	465	335	464	384	453	536	554	526	525	423	465	458
27	465	333	411	450	447	538	552	530	518	443	490	440
28	457	237	325	463	478	538	555	527	519	442	481	443
29	489	265	351	447	---	538	554	450	516	460	455	472
30	472	138	326	452	---	539	555	530	484	469	377	447
31	448	---	334	471	---	540	---	522	---	470	367	---
TOTAL	14523	5040	9770	13378	14146	13261	16355	16698	15662	14213	14508	8339.38
MEAN	468	168	315	432	505	428	545	539	522	458	468	278
MAX	510	469	580	575	579	540	555	559	557	489	493	498
MIN	434	0	96	179	447	210	476	450	484	371	367	0
AC-FT	28810	10000	19380	26540	28060	26300	32440	33120	31070	28190	28780	16540

CAL YR 1968 TOTAL 132347.00 MEAN 362 MAX 610 MIN 0 AC-FT 262500
WTR YR 1969 TOTAL 155893.38 MEAN 427 MAX 580 MIN 0 AC-FT 309200

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	453	373	386	397	557	488	559	378	418	311	562	556
2	456	351	420	453	556	448	451	404	362	358	559	556
3	453	367	442	444	488	554	507	429	353	143	561	555
4	465	238	440	445	557	554	435	412	363	73	556	556
5	459	365	419	436	557	448	438	422	320	111	560	556
6	421	452	208	439	509	554	198	414	372	56	561	556
7	420	432	256	444	520	519	0	431	359	0	559	555
8	467	364	290	445	532	554	0	448	333	2.0	560	556
9	417	361	428	425	477	554	0	448	335	0	561	556
10	409	381	341	556	486	554	0	436	330	0	561	557
11	414	375	366	520	497	554	0	450	330	111	557	560
12	420	342	443	470	470	470	227	467	306	145	558	142
13	357	369	469	558	470	532	443	442	277	397	558	0
14	437	358	416	557	557	527	436	400	277	497	558	0
15	416	353	430	557	530	508	424	430	26	509	558	0
16	439	350	301	557	556	502	427	421	0	476	558	0
17	428	370	148	557	556	501	418	399	0	560	557	0
18	414	354	161	551	556	522	396	408	0	562	557	0
19	417	377	328	540	529	513	396	403	0	560	557	0
20	417	320	558	558	544	518	404	434	0	561	558	0
21	404	371	558	557	539	500	432	442	0	560	559	0
22	418	375	552	557	521	469	425	444	151	560	559	0
23	420	368	447	550	537	484	437	404	145	563	559	0
24	430	359	559	558	512	486	389	399	183	559	559	0
25	434	315	499	557	520	463	434	407	258	560	559	47
26	435	290	486	557	521	472	433	413	257	561	558	326
27	422	101	457	557	460	461	413	443	308	559	558	557
28	359	237	456	558	556	445	406	444	360	559	557	557
29	338	206	441	558	---	541	383	426	372	534	557	558
30	339	195	451	558	---	513	395	431	372	559	556	559
31	357	---	441	557	---	406	---	439	---	557	557	---
TOTAL	12935	10069	12597	16033	14670	15614	10306	13168	7167	11563.0	17314	8865
MEAN	417	336	406	517	524	504	344	425	239	373	559	296
MAX	467	452	559	558	557	554	559	467	418	563	562	560
MIN	338	101	148	397	460	406	0	378	0	0	556	0
AC-FT	25660	19970	24990	31800	29100	30970	20440	26120	14220	22940	34340	17580

CAL YR 1969 TOTAL 162161.38 MEAN 444 MAX 579 MIN 0 AC-FT 321600
WTR YR 1970 TOTAL 150301.00 MEAN 412 MAX 563 MIN 0 AC-FT 298100

11421770 BEAR RIVER BELOW DRUM AFTERBAY, NEAR BLUE CANYON, CALIF.

LOCATION.--Lat 39°15'16", long 120°46'26", in SW¼NW¼ sec.17, T.16 N., R.11 E., Placer County, on left bank 60 ft downstream from Drum Afterbay Dam and 3.5 miles west of Blue Canyon.

DRAINAGE AREA.--12.3 sq mi.

PERIOD OF RECORD.--April 1966 to September 1970 (low flows only April to September 1966).

GAGE.--Water-stage recorder and 4-foot steel Cipolletti weir set in a concrete broad-crested weir. Altitude of gage is 3,300 ft (from topographic map). April 1966 to May 25, 1967, water-stage recorder at present site at different datum and May 26, 1967, to Feb. 11, 1968, at site 1,000 ft downstream at different datum.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for April 1966 to September 1970 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	-	-	-	June 19, 20, 1966	8.6
1967	Feb. 8, 1967	a492	-	Oct. 2, 1966	2.3
1968	Feb. 23, 1968	853	2.74	Dec. 9, 1967	1.0
1969	Jan. 26, 1969	1,660	3.23	Nov. 15, 1968	5.2
1970	Jan. 21, 1970	2,880	3.68	Many days	5.4

a Maximum daily.

Period of record: Maximum discharge, 2,880 cfs Jan. 21, 1970 (gage height, 3.68 ft), from rating curve extended above 900 cfs; minimum daily, 1.0 cfs Dec. 9, 1967.

REMARKS.--Water for Dutch Flat No. 1 powerplant (see station 11421750) and Dutch Flat No. 2 flume (see station 11421760) is diverted from Drum Afterbay just above station. No gage-height record July 22 to Aug. 26, 1968. See schematic diagram of Bear River basin elsewhere in this report.

COOPERATION.--Water-stage-recorder graph and 26 discharge measurements for the water years 1966-67 furnished by Pacific Gas & Electric Co., in connection with a Federal Power Commission project. Records for the water years 1968-70 collected by Pacific Gas & Electric Co., under general supervision of the Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, APRIL TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								12	9.4	9.8	10	11
2							11	12	9.4	9.4	10	11
3							9.8	12	9.4	9.4	10	10
4							9.4	12	9.4	9.0	10	10
5							9.4	12	9.4	9.4	9.8	10
6							9.0	12	9.4	9.4	10	10
7							9.0	12	9.4	9.4	10	10
8							9.0	12	9.0	9.4	10	10
9							9.0	12	9.8	9.4	11	10
10							9.4	12	9.0	9.4	10	9.8
11							9.8	12	9.0	9.4	10	9.8
12							9.8	12	9.0	9.0	12	12
13							13	12	9.0	9.0	11	12
14							13	12	9.0	9.8	10	12
15							13	12	9.0	12	10	9.4
16							14	12	9.0	10	10	9.8
17							14	12	9.0	10	9.8	10
18							14	10	9.0	12	9.8	11
19							14	9.0	8.6	11	9.8	11
20							13	8.6	8.6	11	9.8	11
21							13	8.2	9.0	10	9.8	11
22							13	12	9.0	10	9.8	9.4
23							13	7.8	9.0	10	9.8	9.4
24							13	7.8	9.0	10	9.8	9.4
25							13	12	9.0	10	10	9.4
26							13	20	9.0	10	10	9.8
27							13	9.8	9.0	10	9.8	9.4
28							12	9.4	9.0	10	9.8	12
29							12	9.4	9.4	10	10	13
30							12	9.4	9.4	9.8	10	10
31								9.8	---	9.8	10	---
TOTAL								347.2	273.6	306.8	311.8	312.6
MEAN								11.2	9.12	9.90	10.1	10.4
MAX								20	9.8	12	12	13
MIN								7.8	8.6	9.0	9.8	9.4
AC-FT								689	543	609	618	620

11421770 BEAR RIVER BELOW DRUM AFTERBAY, NEAR BLUE CANYON, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	6.7	5.4	5.1	5.8	9.4	9.0	10	12	11	11	10
2	2.3	6.7	5.4	5.8	4.6	12	9.0	10	11	11	11	8.2
3	3.1	6.7	4.1	6.1	6.4	12	9.4	10	12	11	12	10
4	3.5	6.7	5.1	5.8	6.4	11	9.8	10	12	11	9.4	10
5	3.0	7.0	4.8	6.4	6.4	11	12	10	12	12	9.4	10
6	2.6	6.4	5.1	6.4	6.4	11	12	10	12	13	9.4	10
7	3.5	5.4	5.4	6.7	70	11	12	10	12	12	9.4	10
8	6.7	5.4	5.4	5.8	492	11	14	9.8	11	12	9.4	9.4
9	7.0	6.1	4.6	5.8	185	10	15	9.8	12	13	9.4	10
10	7.0	6.4	4.6	5.8	170	10	15	10	12	12	9.4	10
11	6.4	6.7	4.6	6.4	155	10	12	9.8	12	9.4	8.8	10
12	6.4	6.1	4.6	6.4	211	10	9.4	9.8	12	10	8.8	9.4
13	6.4	6.7	4.4	5.8	80	10	9.4	9.8	12	11	8.8	9.4
14	6.4	6.7	4.1	6.4	27	9.8	11	9.8	12	10	8.8	9.4
15	6.4	6.7	5.4	7.0	89	10	11	9.8	14	12	8.8	71
16	6.4	6.7	4.6	7.0	69	10	9.8	10	13	12	7.0	10
17	6.7	6.4	4.4	7.0	41	11	10	9.8	14	10	7.0	10
18	6.4	6.4	4.6	6.7	24	11	10	9.4	15	12	8.8	10
19	6.4	6.4	5.4	6.4	25	11	9.8	9.4	13	10	7.0	7.1
20	6.4	6.4	5.4	7.0	18	10	9.8	9.4	12	12	8.2	10
21	6.4	6.4	4.6	6.7	11	9.4	9.8	9.4	12	12	8.8	10
22	6.4	6.4	4.6	5.6	14	9.4	10	9.4	13	11	8.8	10
23	6.4	6.1	4.1	6.1	14	9.8	10	9.4	12	8.8	8.8	10
24	6.4	6.4	4.1	6.7	12	9.8	10	9.4	12	11	8.8	10
25	6.4	6.1	4.1	6.4	5.6	10	10	7.7	11	9.4	9.4	10
26	6.4	6.1	3.9	6.1	5.6	9.8	9.4	8.0	11	9.4	9.4	10
27	6.4	6.1	3.5	6.4	6.7	10	9.4	20	11	10	10	10
28	6.4	6.1	3.9	5.8	6.7	9.8	9.4	20	12	9.4	10	10
29	6.4	6.1	4.1	14	---	10	9.8	12	11	11	10	10
30	6.4	6.1	4.6	6.4	---	9.8	9.8	11	12	14	10	11
31	6.1	---	4.1	11	---	9.4	---	12	---	10	10	---
TOTAL	177.7	190.6	143.0	207.0	1767.6	318.4	317.0	324.9	364	342.4	285.8	354.9
MEAN	5.73	6.35	4.61	6.68	63.1	10.3	10.6	10.5	12.1	11.0	9.22	11.8
MAX	7.0	7.0	5.4	14	492	12	15	20	15	14	12	71
MIN	2.3	5.4	3.5	5.1	4.6	9.4	9.0	7.7	11	8.8	7.0	7.1
AC-FT	352	378	284	411	3510	632	629	644	722	679	567	704

WTR YR 1967 TOTAL 4793.3 MEAN 13.1 MAX 492 MIN 2.3 AC-FT 9510

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SFP
1	6.8	7.4	2.9	7.8	3.6	189	266	11	11	12	12	12
2	4.7	7.4	14	7.8	5.3	166	301	11	12	11	12	12
3	4.7	6.8	14	7.5	17	177	332	11	12	11	12	12
4	5.4	7.1	7.0	6.4	5.0	126	253	11	11	11	12	13
5	5.0	6.2	6.4	6.4	8.1	141	272	11	11	12	12	16
6	5.9	5.7	4.2	8.4	5.8	11	254	12	11	12	12	5.0
7	6.0	5.0	5.5	8.4	6.1	11	265	12	11	12	12	5.0
8	6.5	4.7	3.1	8.7	6.4	11	269	11	12	12	12	5.0
9	6.8	4.4	1.0	10	7.0	11	96	11	12	12	12	10
10	7.1	4.4	1.5	24	6.0	11	12	11	12	11	12	11
11	6.8	5.0	3.1	2.9	6.0	11	12	11	11	12	12	11
12	6.8	6.5	3.6	3.9	42	11	13	11	12	12	12	11
13	6.5	6.8	4.2	3.3	42	139	16	11	12	12	12	12
14	5.7	7.4	4.7	6.1	37	121	10	12	12	12	12	12
15	6.5	5.4	5.0	31	35	221	10	12	12	11	12	12
16	6.8	5.0	11	12	40	140	10	11	12	12	12	12
17	8.9	5.2	6.1	10	84	118	11	11	12	12	12	12
18	11	7.1	19	10	35	122	11	11	12	12	12	12
19	10	5.4	21	9.9	55	143	11	11	12	11	12	12
20	7.0	6.5	20	5.8	169	115	11	11	11	12	12	12
21	5.2	6.1	25	5.5	31	129	11	11	12	12	12	11
22	5.4	5.8	14	8.4	24	130	11	11	12	12	12	11
23	4.7	6.7	3.1	9.3	126	143	10	12	12	12	12	12
24	5.2	12	3.3	31	288	139	10	11	12	12	12	12
25	4.7	7.5	4.2	23	282	128	10	11	12	12	12	12
26	5.2	11	5.8	24	266	11	10	11	12	12	12	12
27	5.4	7.5	8.1	20	224	11	9.9	11	12	12	12	12
28	5.0	5.5	7.5	19	235	11	10	11	12	12	12	12
29	6.2	5.8	8.7	20	199	12	11	11	12	12	12	12
30	6.2	4.2	7.5	5.5	---	11	11	11	12	12	12	12
31	7.1	---	8.7	13	---	80	---	11	---	12	12	---
TOTAL	195.2	191.5	253.2	369.0	2290.3	2800	2538.9	346	353	366	372	337.0
MEAN	6.30	6.38	8.17	11.9	79.0	90.3	84.6	11.2	11.8	11.8	12.0	11.2
MAX	11	12	25	31	288	221	332	12	12	12	12	16
MIN	4.7	4.2	1.0	2.9	3.6	11	9.9	11	11	11	12	5.0
AC-FT	387	380	502	732	4540	5550	5040	686	700	726	738	668

CAL YR 1967 TOTAL 4921.9 MEAN 13.5 MAX 492 MIN 1.0 AC-FT 9760
WTR YR 1968 TOTAL 10412.1 MEAN 28.4 MAX 332 MIN 1.0 AC-FT 20650

11421770 BEAR RIVER BELOW DRUM AFTERBAY, NEAR BLUE CANYON, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	7.6	6.3	6.1	5.8	9.0	11	12	11	11	11	11
2	7.4	7.8	6.4	6.0	5.9	10	11	12	11	11	11	11
3	7.5	7.7	5.7	6.0	5.6	10	11	12	11	11	11	11
4	7.8	7.6	5.7	6.1	5.6	10	45	11	11	11	11	12
5	7.7	7.8	5.9	6.2	6.0	10	57	11	11	11	11	11
6	7.7	8.1	6.2	6.2	5.5	10	11	12	11	12	11	11
7	8.0	8.0	6.3	6.1	5.7	10	11	12	11	11	11	12
8	7.7	8.0	6.1	5.9	5.7	10	11	12	11	12	11	12
9	7.6	8.0	6.2	6.1	5.8	10	11	12	11	11	11	12
10	7.8	8.0	6.1	6.2	5.6	11	11	12	11	11	11	12
11	7.6	7.4	6.2	6.2	5.7	11	15	12	11	11	11	12
12	7.7	5.7	6.0	6.2	5.6	11	17	12	11	11	11	11
13	7.9	5.4	6.1	6.0	5.6	11	17	12	11	11	11	11
14	8.0	5.5	6.0	5.4	5.8	11	17	11	11	12	11	11
15	7.9	5.2	6.1	5.9	9.5	11	17	11	11	11	11	12
16	7.8	5.3	6.2	5.9	6.4	11	17	11	11	11	11	12
17	7.7	5.3	6.1	5.9	5.6	11	17	11	11	11	11	14
18	7.9	5.3	6.1	6.0	6.3	11	17	11	11	11	11	12
19	8.0	5.5	6.1	17	5.8	11	17	11	11	11	11	9.9
20	7.7	5.6	6.1	359	5.9	12	14	11	11	11	11	11
21	8.0	5.9	5.9	369	5.7	13	11	11	11	11	11	11
22	7.9	5.8	6.0	73	5.7	12	12	11	11	11	11	12
23	7.8	5.7	6.0	14	5.7	11	11	11	11	11	11	11
24	8.1	5.8	6.0	14	5.7	11	11	11	11	11	11	11
25	7.9	5.6	5.7	229	5.7	11	11	11	11	11	11	11
26	7.9	6.2	5.8	338	5.6	175	11	11	11	11	11	11
27	7.9	6.4	6.1	39	5.8	296	11	11	11	11	11	11
28	7.9	6.1	6.1	5.7	5.7	198	12	11	11	11	11	12
29	7.8	5.8	6.1	5.8	---	10	11	12	11	11	11	11
30	7.8	5.9	6.1	5.7	---	10	12	11	11	11	11	11
31	7.5	---	6.1	5.7	---	10	---	11	---	11	11	---
TOTAL	243.9	194.0	187.8	1583.3	165.0	968.0	468	353	330	344	341	342.9
MEAN	7.87	6.47	6.06	51.1	5.89	31.2	15.6	11.4	11.0	11.1	11.0	11.4
MAX	10	8.1	6.4	369	9.5	296	57	12	11	12	11	14
MIN	7.4	5.2	5.7	5.4	5.5	9.0	11	11	11	11	11	9.9
AC-FT	484	385	373	3140	327	1920	928	700	655	682	676	680

CAL YR 1968 TOTAL 10397.9 MEAN 28.4 MAX 332 MIN 2.9 AC-FT 20620
WTR YR 1969 TOTAL 5520.9 MEAN 15.1 MAX 369 MIN 5.2 AC-FT 10950

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	5.8	6.1	10	5.8	9.7	11	11	11	11	11	11
2	5.7	5.8	6.0	10	5.8	21	11	11	11	11	12	11
3	5.5	5.8	6.0	9.9	6.1	14	11	11	11	11	11	11
4	5.5	5.7	6.3	9.9	5.8	11	10	11	11	12	11	11
5	5.5	5.7	6.3	9.9	5.7	12	10	11	12	11	11	11
6	5.7	5.4	6.4	9.7	5.8	11	93	11	11	11	11	11
7	5.5	5.5	6.3	9.7	5.7	11	166	11	11	11	11	11
8	5.5	5.4	6.3	9.5	5.7	11	138	11	11	11	11	11
9	5.5	5.5	6.3	7.8	6.1	11	84	11	11	11	10	11
10	5.7	5.5	6.4	5.8	6.1	11	106	12	11	11	11	11
11	5.7	5.4	9.1	5.7	6.4	11	145	11	10	11	11	11
12	5.7	5.5	10	6.0	6.1	11	15	11	11	11	11	12
13	5.8	5.5	7.8	37	5.8	11	11	11	11	11	11	12
14	5.4	5.5	6.0	215	5.7	11	12	11	10	11	11	12
15	5.7	5.4	6.0	7.8	6.3	11	11	11	11	11	11	12
16	5.5	5.5	6.1	298	10	11	12	11	11	11	11	12
17	5.7	5.7	6.1	111	5.8	11	11	11	11	11	11	12
18	5.7	5.7	6.1	6.0	5.7	11	11	11	11	11	11	12
19	5.7	5.5	6.1	145	5.8	11	11	11	10	12	10	12
20	5.7	5.5	6.0	55	5.5	11	11	11	10	11	11	12
21	5.5	5.4	6.1	834	5.7	11	12	11	10	12	11	11
22	5.4	5.5	5.5	181	6.1	11	11	11	11	11	11	11
23	5.4	5.4	6.3	141	6.1	11	11	11	10	11	11	11
24	5.5	5.4	155	215	6.0	11	10	11	10	11	11	11
25	5.7	5.7	78	31	5.8	11	10	11	11	11	11	11
26	5.7	6.0	6.1	33	5.7	11	10	11	11	12	11	11
27	5.7	6.1	7.4	170	6.0	11	11	11	10	11	11	12
28	5.7	6.1	9.7	6.1	6.0	11	11	11	10	11	11	11
29	5.4	6.0	10	6.1	---	11	11	11	10	12	11	11
30	5.4	6.3	10	6.3	---	11	11	11	10	12	11	11
31	5.4	---	10	6.1	---	11	---	11	---	12	11	---
TOTAL	174.1	169.2	435.8	2608.3	169.1	353.7	998	342	320	348	340	340
MEAN	5.62	5.64	14.1	84.1	6.04	11.4	33.3	11.0	10.7	11.2	11.0	11.3
MAX	6.6	6.3	155	834	10	21	166	12	12	12	12	12
MIN	5.4	5.4	5.5	5.7	5.5	9.7	10	11	10	11	10	11
AC-FT	345	336	864	5170	335	702	1980	678	635	690	674	674

CAL YR 1969 TOTAL 5674.3 MEAN 15.5 MAX 369 MIN 5.4 AC-FT 11250
WTR YR 1970 TOTAL 6598.2 MEAN 18.1 MAX 834 MIN 5.4 AC-FT 13090

11421780 CHICAGO PARK FLUME NEAR DUTCH FLAT, CALIF.

LOCATION.--Lat 39°12'55", long 120°50'23", in NW¼NE¼ sec.34, T.16 N., R.10 E., Nevada County, on left bank 670 ft downstream from Dutch Flat Afterbay and 0.6 mile north of Dutch Flat. Prior to Sept. 8, 1968, at site 420 ft upstream.

PERIOD OF RECORD.--November 1965 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 2,600 ft (from topographic map). Prior to Sept. 8, 1968, at site 420 ft upstream at present datum.

EXTREMES.--Period of record: Maximum daily discharge, 1,040 cfs Mar. 27, 1970; no flow for several days in each year.

REMARKS.--Records fair. No gage-height record Nov. 21, 1965, to Jan. 12, 1966, Feb. 12 to Mar. 19, June 29 to Aug. 17, 1966. Flow regulated by Dutch Flat Afterbay. See schematic diagram of Bear River basin elsewhere in this report.

COOPERATION.--Seven discharge measurements furnished by Pacific Gas & Electric Co.

DISCHARGE, IN CUBIC FEET PER SECOND, NOVEMBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			19	648	710	1.0	935	783	139	420	579	582
2			0	646	542	1.0	879	776	197	379	543	535
3			28	646	891	1.0	875	640	126	375	424	251
4			0	671	451	1.0	801	290	320	218	560	235
5			0	512	872	1.0	845	542	191	450	484	278
6			250	909	894	1.0	786	262	193	308	244	617
7			516	514	890	1.0	852	260	261	435	372	515
8			515	933	753	1.0	567	258	104	243	367	515
9			396	708	740	1.0	820	377	571	344	645	515
10			452	261	520	1.0	812	681	573	329	412	294
11			429	0	340	1.0	951	520	114	315	649	331
12			436	0	1.0	1.0	828	625	219	255	493	579
13			199	382	1.0	1.0	822	535	359	340	306	179
14			711	665	1.0	1.0	842	562	312	361	323	1.0
15			592	578	1.0	1.0	805	551	265	401	546	1.0
16			727	624	1.0	1.0	763	530	217	282	451	1.0
17			696	379	1.0	1.0	893	535	187	328	575	1.0
18			696	942	1.0	1.0	764	378	182	384	571	1.0
19			708	680	1.0	1.0	683	276	161	342	520	1.0
20			703	646	1.0	78	863	616	245	383	355	251
21		0	699	690	1.0	439	768	594	165	474	347	28
22		0	765	722	1.0	980	776	612	308	323	463	471
23		0	479	722	1.0	763	755	662	238	190	565	495
24		0	678	564	1.0	638	800	778	211	318	565	495
25		0	650	623	1.0	663	769	704	211	563	554	507
26		0	632	655	1.0	780	747	716	133	392	517	507
27		0	646	832	1.0	735	789	328	317	137	369	507
28		0	372	595	1.0	740	776	108	297	317	267	553
29		0	820	829	---	862	761	184	214	513	504	482
30		74	729	800	---	654	788	203	317	308	650	503
31			638	772	---	831	---	470	---	216	532	---
TOTAL			15181	19148	7620.0	8182.0	24115	15356	7347	10643	14752	10231.0
MEAN			490	618	272	264	804	495	245	343	476	341
MAX			820	942	894	980	951	783	573	563	650	617
MIN			0	0	1.0	1.0	567	108	104	137	244	1.0
AC-FT			30110	37980	15110	16230	47830	30460	14570	21110	29260	20290

11421780 CHICAGO PARK FLUME NEAR DUTCH FLAT, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	436	529	621	0	1030	569	779	906	725	746	790	709
2	394	511	688	0	916	609	820	916	870	790	783	708
3	651	522	258	0	712	588	822	918	817	768	793	709
4	467	505	0	0	896	582	830	922	824	740	783	711
5	491	512	0	0	772	575	936	925	807	751	789	715
6	470	518	0	165	691	572	931	930	848	671	792	723
7	502	537	0	624	392	553	955	934	888	802	793	698
8	509	529	525	673	540	396	985	937	862	782	799	711
9	497	537	767	768	508	302	913	952	825	727	807	709
10	526	508	901	677	476	464	889	952	834	795	797	751
11	460	523	781	688	576	400	967	958	817	772	797	797
12	464	536	765	673	487	225	894	960	827	732	799	807
13	505	425	791	673	519	356	906	968	877	684	799	799
14	477	616	781	688	716	397	931	968	807	792	782	799
15	504	527	744	653	694	441	925	955	831	762	720	611
16	406	564	736	690	750	814	944	973	746	782	391	24
17	624	561	742	667	705	763	936	979	799	796	641	74
18	501	533	763	663	614	354	986	976	835	725	844	755
19	520	431	743	476	872	460	982	976	814	792	849	754
20	439	505	725	413	725	50	866	984	748	690	831	750
21	467	630	746	822	651	0	986	988	814	811	781	748
22	484	554	582	707	722	0	966	992	775	730	758	695
23	501	491	342	466	700	54	944	997	758	694	760	687
24	502	469	327	803	670	238	932	1000	732	769	730	688
25	471	481	345	733	397	321	907	806	793	778	719	692
26	511	490	327	760	418	120	894	779	774	732	600	699
27	515	478	317	830	471	119	785	732	772	732	718	740
28	414	522	321	836	585	109	892	784	734	704	709	737
29	515	716	230	1020	---	200	898	1020	786	793	720	737
30	621	527	19	1020	---	452	904	617	733	748	706	743
31	501	---	0	1020	---	820	---	1030	---	683	709	---
TOTAL	15345	15787	14887	18208	18205	11903	27305	28734	24072	23273	23289	20480
MEAN	495	526	480	587	650	384	910	927	802	751	751	683
MAX	651	716	901	1020	1030	820	986	1030	888	811	849	807
MIN	394	425	0	0	392	0	779	617	725	671	391	24
AC-FT	30440	31310	29530	36120	36110	23610	54160	56990	47750	46160	46190	40620

CAL YR 1966 TOTAL 163413.00 MEAN 448 MAX 980 MIN 0 AC-FT 324100
WTR YR 1967 TOTAL 241488.00 MEAN 662 MAX 1030 MIN 0 AC-FT 479000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	761	507	514	355	184	377	892	333	212	530	706	405
2	232	552	254	316	158	625	889	408	155	619	546	273
3	0	613	282	191	377	844	883	705	431	608	209	696
4	0	524	514	192	86	775	797	111	243	213	301	700
5	0	560	548	184	545	873	908	175	222	582	686	258
6	0	540	530	196	691	650	775	530	357	129	669	0
7	0	522	526	200	796	638	883	530	351	297	654	0
8	0	631	450	200	807	569	973	521	411	642	769	0
9	0	517	60	207	804	634	799	481	203	663	573	0
10	0	440	246	334	785	615	611	413	213	558	328	0
11	0	126	398	218	531	618	607	426	376	530	437	0
12	0	0	740	218	0	394	659	370	190	514	680	0
13	0	461	427	206	0	856	638	448	313	533	629	192
14	0	652	646	251	0	781	604	437	232	448	733	363
15	0	655	524	775	0	821	626	434	316	540	730	318
16	0	518	341	527	0	743	681	224	266	491	499	585
17	0	537	139	652	0	803	615	465	286	498	366	738
18	248	233	286	779	0	774	561	320	327	490	358	702
19	561	225	360	701	0	879	564	259	308	396	741	782
20	559	332	340	274	0	734	638	432	229	291	748	615
21	557	482	280	268	0	677	628	151	275	351	703	711
22	562	489	268	450	0	789	597	336	276	510	626	702
23	653	92	53	743	0	671	383	393	222	525	671	631
24	590	534	179	768	0	762	111	380	342	443	500	636
25	580	16	209	771	0	813	415	259	284	570	377	804
26	606	211	201	729	0	446	364	185	412	451	634	660
27	598	587	312	416	0	590	363	474	207	222	699	637
28	288	457	373	460	0	543	24	141	355	194	671	673
29	382	512	491	520	122	632	388	428	310	601	743	658
30	733	466	467	195	---	607	376	185	298	541	605	738
31	525	---	530	440	---	649	---	442	---	440	284	---
TOTAL	8435	12991	11488	12736	5886	21182	18252	11396	8622	14420	17875	13477
MEAN	272	433	371	411	203	683	608	368	287	465	577	449
MAX	761	655	740	779	807	879	973	705	431	663	769	804
MIN	0	0	53	184	0	377	24	111	155	129	209	0
AC-FT	16730	25770	22790	25260	11670	42010	36200	22600	17100	28600	35460	26730

CAL YR 1967 TOTAL 228383.00 MEAN 626 MAX 1030 MIN 0 AC-FT 453000
WTR YR 1968 TOTAL 156760.00 MEAN 428 MAX 973 MIN 0 AC-FT 310900

11421780 CHICAGO PARK FLUME NEAR DUTCH FLAT, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	736	560	79	432	824	907	907	644	915	689	682	538
2	697	269	257	463	907	817	917	814	864	769	752	631
3	620	448	377	358	834	889	919	886	888	781	758	752
4	700	449	166	300	906	718	915	924	868	683	690	731
5	690	467	189	362	725	921	906	922	856	729	736	747
6	755	578	285	687	904	766	908	952	875	722	754	729
7	675	477	183	559	773	890	910	968	896	718	715	519
8	756	502	154	515	855	790	906	969	861	680	755	338
9	679	367	408	418	810	802	914	966	902	764	748	4.8
10	650	318	354	366	800	761	908	1010	861	761	728	14
11	762	452	569	304	888	410	908	1010	867	773	740	0
12	753	611	463	481	885	342	897	960	891	707	759	61
13	662	536	618	697	885	259	340	973	879	750	750	0
14	744	584	379	953	856	460	0	980	919	668	687	0
15	708	515	421	735	881	881	0	964	869	843	766	0
16	660	593	343	887	874	713	0	899	855	699	709	11
17	764	560	415	741	874	755	0	851	953	753	753	0
18	637	550	427	389	872	766	0	887	867	679	754	0
19	661	423	423	955	869	514	0	915	926	764	723	0
20	738	513	439	987	867	498	0	917	973	707	732	682
21	674	472	361	919	871	499	0	826	898	807	764	739
22	759	560	411	913	876	402	0	917	906	743	742	713
23	692	559	383	911	826	434	0	816	912	710	756	828
24	641	501	629	907	822	480	0	934	884	735	694	697
25	664	488	833	909	641	579	0	861	902	695	810	746
26	696	224	666	910	868	744	0	802	906	757	722	794
27	680	432	481	908	775	830	141	922	857	715	762	701
28	640	218	440	909	810	887	466	911	885	756	699	751
29	670	224	469	908	---	893	631	805	886	704	663	876
30	593	164	397	904	---	892	670	886	787	763	458	816
31	757	---	476	906	---	904	---	834	---	702	513	---
TOTAL	21513	13614	12495	21593	23578	21403	13163	27925	26608	22726	22274	13418.8
MEAN	694	454	403	697	842	690	439	901	887	733	719	447
MAX	764	611	833	987	907	921	919	1010	973	843	810	876
MIN	593	164	79	300	641	259	0	644	787	668	458	0
AC-FT	42670	27000	24780	42830	46770	42450	26110	55390	52780	45080	44180	26620

CAL YR 1968 TOTAL 171468.00 MEAN 468 MAX 973 MIN 0 AC-FT 340100
WTR YR 1969 TOTAL 240310.80 MEAN 658 MAX 1010 MIN 0 AC-FT 476700

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	723	515	536	703	1030	862	852	691	710	399	490	789
2	806	511	532	836	1030	823	878	691	758	380	744	792
3	736	519	532	832	1030	1030	929	728	761	0	583	814
4	720	564	547	794	1030	1030	845	712	736	0	611	753
5	755	544	456	790	989	823	769	712	735	0	616	798
6	687	646	246	773	871	1030	753	768	729	0	614	771
7	724	528	245	764	976	977	837	726	790	0	615	805
8	767	636	507	795	1030	1030	742	821	739	0	612	800
9	732	568	522	775	871	1030	792	811	840	0	616	787
10	726	475	501	1030	909	1030	802	776	726	0	616	830
11	685	494	543	967	938	979	610	657	761	286	628	722
12	722	519	588	784	1030	1030	709	881	724	148	625	203
13	765	587	633	1030	1030	1030	699	770	553	475	612	0
14	732	570	553	1030	1030	1030	773	744	515	573	614	0
15	727	538	571	1030	1030	1030	765	707	475	596	601	0
16	798	359	405	1030	815	1030	764	805	691	503	615	0
17	759	639	217	1030	1030	975	699	747	537	645	612	0
18	740	539	207	1030	992	993	661	768	445	610	614	0
19	700	564	498	1030	1030	929	673	670	441	573	733	0
20	752	540	957	1030	1030	958	705	803	267	625	793	0
21	729	553	1030	1030	950	948	763	788	240	606	807	0
22	696	583	1030	1030	903	912	741	794	486	598	778	0
23	768	429	780	1030	1030	948	705	698	403	596	792	44
24	719	669	1020	1030	924	903	742	753	432	633	754	33
25	767	305	929	1030	1030	901	730	746	417	609	793	58
26	724	488	909	1030	1030	896	749	769	402	607	794	389
27	681	91	856	1030	846	1040	716	820	446	592	815	578
28	512	280	917	1030	1030	771	671	723	497	655	754	632
29	471	339	803	1030	---	1030	651	729	399	567	778	595
30	523	220	793	1030	---	1020	765	778	458	623	837	564
31	581	---	894	1030	---	847	---	779	---	606	791	---
TOTAL	21927	14812	19757	29413	27464	29865	22490	23365	17113	12505	21257	11757
MEAN	707	494	637	949	981	963	750	754	570	403	686	392
MAX	806	669	1030	1030	1030	1040	929	881	840	655	837	830
MIN	471	91	207	703	815	771	610	657	240	0	490	0
AC-FT	43490	29380	39190	58340	54470	59240	44610	46340	33940	24800	42160	23320

CAL YR 1969 TOTAL 249184.80 MEAN 683 MAX 1030 MIN 0 AC-FT 494300
WTR YR 1970 TOTAL 251725.00 MEAN 690 MAX 1040 MIN 0 AC-FT 499300

11421790 BEAR RIVER BELOW DUTCH FLAT AFTERBAY, NEAR DUTCH FLAT, CALIF.

LOCATION.--Lat 39°12'55", long 120°50'23", in NE¼NW¼ sec.34, T.16 N., R.10 E., Placer County, at left bank downstream end of spillway on Dutch Flat Afterbay Dam, 0.6 mile north of Dutch Flat.

DRAINAGE AREA.--21.5 sq mi.

PERIOD OF RECORD.--December 1965 to September 1970.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 2,600 ft (from topographic map).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for December 1965 to September 1970 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Dec. 1, 1965	1,310	-	Dec. 15, 1965	.20
1967	Dec. 5, 6, 1966	1,390	-	Mar. 26, 1967	3.7
1968	Feb. 21, 1968	1,390	-	Mar. 8-19, 1968	.08
1969	Jan. 20, 1969	2,360	-	Many days	3.4
1970	Jan. 21, 1970	a1,330	-	Mar. 18, 19, 25, 1970	4.7

a Maximum daily.

Period of record: Maximum daily discharge, 1,500 cfs Jan. 20, 1969; minimum daily, 0.08 cfs Mar. 8-19, 1968.

REMARKS.--Records good. Water is imported from South Yuba River basin via South Yuba Canal (see station 11414200) and Drum Canal above forebay (see station 11414190). Chicago Park flume (see station 11421780) diverts above station to Chicago Park powerplant. Records include spill over Dutch Flat Afterbay Dam. This station measures flow from Dutch Flat Afterbay in connection with a Federal Power Commission project. See schematic diagram of Bear River basin elsewhere in this report.

COOPERATION.--Record of elevations for Dutch Flat Afterbay furnished by Nevada Irrigation District.

DISCHARGE, IN CUBIC FEET PER SECOND, DECEMBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			876	.50	5.7	279	2.5	9.6	8.8	9.6	9.4	9.6
2			889	.50	6.0	314	2.5	9.6	8.8	9.6	9.1	9.6
3			919	.50	6.0	362	2.5	9.6	8.8	9.6	9.4	9.6
4			914	.50	6.0	386	2.5	9.9	9.1	9.9	9.1	9.6
5			813	150	6.0	384	2.5	9.6	9.1	9.6	9.4	9.6
6			513	.50	6.0	384	4.6	9.6	9.1	9.1	9.4	9.6
7			109	.50	6.0	408	6.9	9.6	9.1	8.3	9.6	9.6
8			248	.50	6.0	436	161	9.6	9.1	8.3	9.6	9.6
9			272	.50	6.0	441	7.1	9.6	9.4	8.8	9.6	9.6
10			207	.50	6.0	599	6.9	9.6	9.4	9.1	9.6	9.6
11			282	.60	6.0	606	7.1	9.6	9.4	9.1	9.6	9.6
12			283	.60	168	567	7.1	9.4	9.6	9.4	9.6	9.6
13			529	24	246	645	6.9	9.4	9.4	9.1	9.6	170
14			20	4.2	294	674	6.9	9.1	9.4	9.1	9.6	75
15			.20	.50	364	674	6.9	9.1	9.4	9.1	9.6	8.6
16			4.6	.50	335	774	6.9	9.1	9.4	9.1	9.6	8.6
17			.30	.50	335	856	6.9	9.4	9.4	9.1	9.6	8.8
18			30	.50	278	852	6.7	9.4	9.4	9.4	9.6	9.1
19			.50	.50	158	898	6.9	411	9.4	9.1	9.6	9.4
20			.50	.50	163	782	6.9	9.1	9.1	9.4	9.6	9.1
21			.50	3.8	176	513	6.9	9.4	9.1	9.4	9.6	9.1
22			.40	8.2	195	6.0	6.9	9.4	9.1	9.4	9.6	9.4
23			141	8.2	291	6.0	6.9	9.4	9.1	9.4	9.6	9.4
24			20	8.2	443	186	6.9	9.6	9.1	9.6	9.6	9.4
25			34	8.2	397	184	6.9	9.6	9.1	9.4	9.6	9.4
26			38	8.0	205	6.0	6.9	9.6	9.1	9.4	9.6	9.4
27			36	7.4	163	5.7	6.9	9.4	9.4	9.4	9.6	9.4
28			280	7.0	184	5.7	6.9	9.4	9.6	9.6	9.6	9.4
29			28	5.5	---	3.8	8.0	9.4	9.6	9.4	9.6	9.6
30			.50	5.7	---	2.5	9.6	9.1	9.6	9.4	9.6	9.6
31			.50	5.7	---	14	---	8.8	---	9.4	9.6	---
TOTAL			7489.00	262.80	4460.7	12253.7	341.0	694.0	277.4	287.6	295.8	507.9
MEAN			242	8.48	159	395	11.4	22.4	9.25	9.28	9.54	16.9
MAX			919	150	443	898	161	411	9.6	9.9	9.6	170
MIN			.20	.50	5.7	2.5	2.5	8.8	8.8	8.3	9.1	8.6
AC-FT			14850	521	8850	24310	676	1380	550	570	587	1010

NOTE.--NO GAGE-HEIGHT RECORD DEC. 1-15.

11421790 BEAR RIVER BELOW DUTCH FLAT AFTERBAY, NEAR DUTCH FLAT, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	7.1	4.0	334	11	5.0	4.0	11	22	11	11	11
2	9.6	4.6	206	334	4.4	5.0	4.0	11	12	11	11	11
3	9.6	4.2	681	334	4.4	5.0	4.0	11	12	11	11	11
4	9.6	4.2	860	334	4.4	5.0	4.0	11	12	11	11	11
5	9.6	4.2	1280	334	4.4	5.0	4.0	11	14	11	11	11
6	9.6	4.2	1220	182	4.4	5.0	4.0	49	12	11	11	11
7	9.6	4.2	1060	4.4	28	4.8	4.0	96	12	11	11	12
8	9.6	4.0	448	4.4	4.4	4.6	4.0	106	12	11	11	12
9	9.6	4.0	4.0	4.4	4.4	4.6	4.0	148	12	11	11	12
10	9.6	4.0	4.0	4.4	4.4	10	4.0	235	12	11	11	12
11	9.6	4.0	4.0	4.4	4.4	4.6	4.0	161	12	12	11	12
12	9.6	4.0	4.0	4.4	4.4	4.6	4.0	75	12	12	11	12
13	9.6	4.0	4.0	4.4	4.6	4.6	4.0	18	12	12	11	12
14	9.6	4.0	4.0	4.4	4.6	4.6	4.0	83	12	12	11	12
15	9.6	4.0	4.2	4.4	4.6	4.6	4.0	34	12	12	11	12
16	9.6	4.0	4.2	4.4	4.6	379	4.0	83	44	12	11	12
17	9.6	4.0	4.2	4.4	4.6	61	4.0	57	12	12	11	12
18	9.6	4.0	4.2	4.4	4.6	4.8	4.0	37	12	12	11	12
19	9.6	4.0	4.2	4.4	4.6	4.8	4.0	13	12	12	11	12
20	9.6	31	4.2	4.4	4.4	4.8	4.0	11	12	12	11	12
21	9.6	4.0	4.2	369	4.4	174	4.0	11	11	12	11	12
22	9.6	4.0	4.4	12	4.8	245	4.0	11	11	11	11	12
23	9.6	4.0	4.4	4.2	4.8	291	4.0	11	11	11	11	12
24	9.6	4.0	4.4	4.2	4.8	183	4.0	11	11	11	11	12
25	9.6	4.0	4.4	4.2	4.8	113	29	11	11	11	11	12
26	9.6	4.0	4.4	4.2	4.8	3.7	88	11	11	11	11	12
27	9.6	4.0	4.4	4.2	4.8	3.8	182	14	11	11	11	12
28	9.6	4.0	4.4	4.2	4.8	3.8	6.6	23	11	11	11	12
29	9.6	4.0	4.4	278	---	4.0	11	11	11	11	11	12
30	9.6	4.0	87	190	---	4.0	11	11	11	11	11	12
31	9.6	---	323	253	---	4.0	---	11	---	11	11	---
TOTAL	297.6	151.7	6257.6	3040.8	157.6	1560.7	423.6	1397	394	352	341	354
MEAN	9.60	5.06	202	98.1	5.63	50.3	14.1	45.1	13.1	11.4	11.0	11.8
MAX	9.6	31	1280	369	28	379	182	235	44	12	11	12
MIN	9.6	4.0	4.0	4.2	4.4	3.7	4.0	11	11	11	11	11
AC-FT	590	301	12410	6030	313	3100	840	2770	781	698	676	702

CAL YR 1966 TOTAL 26087.80 MEAN 71.5 MAX 1280 MIN .50 AC-FT 51750
WTR YR 1967 TOTAL 14727.60 MEAN 40.3 MAX 1280 MIN 3.7 AC-FT 29210

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	6.4	2.6	2.3	2.5	393	6.4	9.2	16	11	11	11
2	291	2.6	2.6	2.3	2.5	159	6.7	12	16	11	11	11
3	565	2.5	2.6	2.3	2.5	24	5.4	12	16	11	11	10
4	539	2.5	2.6	2.3	2.5	6.0	6.2	154	16	11	11	10
5	530	2.3	2.6	2.5	2.5	6.4	6.0	4.5	16	11	11	121
6	548	2.3	2.6	2.5	2.5	6.4	6.7	9.0	13	11	11	74
7	555	2.3	2.6	2.5	2.6	2.6	6.7	14	18	11	11	5.8
8	555	2.3	2.6	2.5	2.6	.08	4.9	13	18	11	11	5.8
9	555	2.3	2.5	2.5	2.6	.08	4.8	12	18	11	11	6.1
10	555	2.3	2.5	2.5	2.6	.08	6.4	14	18	11	11	6.4
11	555	2.3	2.5	2.5	25	.08	5.9	14	18	11	11	6.4
12	540	2.3	2.5	2.5	252	.08	4.9	13	16	11	11	6.4
13	491	2.3	2.5	2.5	198	.08	6.2	13	13	11	11	6.8
14	295	2.3	2.5	2.5	169	.08	6.2	13	11	11	11	6.8
15	292	2.5	2.5	2.5	91	.08	4.6	13	11	11	11	6.8
16	316	2.5	2.3	2.5	45	.08	4.8	13	11	11	11	6.8
17	549	2.6	2.3	2.5	63	.08	5.1	13	11	11	11	6.8
18	352	2.6	2.3	2.5	39	.08	4.1	13	11	11	11	6.8
19	12	2.6	2.3	2.5	30	.08	4.1	13	11	11	11	6.8
20	12	2.7	2.3	2.5	547	.10	5.4	14	11	11	11	6.8
21	12	2.7	2.3	2.5	918	.98	5.4	14	11	11	11	6.8
22	12	2.7	2.3	2.5	989	3.1	4.2	16	11	11	11	6.8
23	12	2.7	2.3	2.5	938	7.4	2.9	16	11	11	11	6.8
24	12	2.7	2.3	2.5	1000	7.8	2.4	16	11	11	11	6.8
25	12	2.7	2.3	2.5	911	3.5	3.8	16	11	11	11	6.8
26	12	2.7	2.3	2.5	874	.98	4.3	16	11	11	11	6.8
27	12	2.7	2.3	2.5	824	.72	5.6	16	11	11	11	6.8
28	11	2.7	2.3	2.5	806	.50	5.6	16	11	11	11	6.8
29	11	2.7	2.3	2.5	621	.50	4.3	16	11	11	11	6.8
30	11	2.7	2.3	35	---	3.7	3.8	15	11	11	11	6.8
31	11	---	2.3	47	---	6.2	---	16	---	11	11	---
TOTAL	8247	79.5	75.1	153.7	9365.4	633.84	153.8	558.7	399	341	341	396.3
MEAN	266	2.65	2.42	4.96	323	20.4	5.13	18.0	13.3	11.0	11.0	13.2
MAX	565	6.4	2.6	47	1000	393	6.7	154	18	11	11	121
MIN	11	2.3	2.3	2.3	2.5	.08	2.4	4.5	11	11	11	5.8
AC-FT	16360	158	149	305	18580	1260	305	1110	791	676	676	786

CAL YR 1967 TOTAL 16422.30 MEAN 45.0 MAX 565 MIN 2.3 AC-FT 32570
WTR YR 1968 TOTAL 20744.34 MEAN 56.7 MAX 1000 MIN .08 AC-FT 41150

11421790 BEAR RIVER BELOW DUTCH FLAT AFTERBAY, NEAR DUTCH FLAT, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	6.4	3.4	3.4	4.4	3.4	103	404	18	12	14	12
2	7.1	3.4	3.4	3.4	7.6	3.4	204	255	18	12	14	12
3	7.1	3.4	3.4	3.4	3.5	3.4	190	154	17	12	14	12
4	7.1	3.4	3.4	3.4	3.5	3.4	132	75	12	12	14	12
5	7.1	3.4	3.4	3.4	3.5	3.4	296	91	12	12	14	12
6	7.4	3.4	3.4	3.4	3.5	3.4	192	18	12	13	14	12
7	7.4	3.4	3.4	3.4	3.4	3.4	179	18	12	13	14	12
8	7.4	3.4	3.4	3.4	3.4	3.4	151	18	12	13	14	12
9	7.4	3.4	3.4	3.4	3.4	3.4	122	83	12	13	13	12
10	7.4	3.4	3.4	3.4	3.4	3.4	139	25	12	13	13	12
11	7.4	3.4	3.4	3.4	3.4	3.4	157	18	12	13	13	12
12	7.4	3.4	3.4	3.4	6.4	3.5	170	18	12	13	13	17
13	7.4	3.4	3.4	103	13	3.5	711	18	12	13	13	25
14	7.4	3.4	3.4	13	63	3.5	1030	18	12	13	13	25
15	7.4	3.4	3.4	3.4	103	3.5	988	18	12	13	13	25
16	7.4	3.4	3.4	3.4	98	3.5	997	18	12	13	13	21
17	7.4	3.4	3.4	3.4	21	3.4	983	18	12	13	13	11
18	7.4	3.4	3.4	3.4	3.4	3.4	991	18	12	13	13	11
19	7.4	3.4	3.4	206	3.4	3.4	1000	18	12	13	13	12
20	7.4	3.4	3.4	1500	3.4	3.4	972	18	12	13	13	12
21	7.4	3.4	3.4	1400	3.4	3.4	954	18	12	13	13	12
22	7.4	3.4	3.4	584	3.4	3.5	996	18	12	13	13	12
23	7.4	3.4	3.4	206	3.4	3.5	1100	18	12	13	13	12
24	7.4	3.4	3.4	144	3.4	3.4	1020	18	12	13	13	12
25	7.4	3.4	3.4	774	7.6	3.4	1030	18	12	13	13	12
26	7.4	3.4	3.4	848	3.4	3.4	1000	18	12	13	13	12
27	7.4	3.4	3.4	188	3.4	3.4	896	18	12	13	12	12
28	7.4	3.4	3.4	80	3.4	3.4	529	18	12	14	12	12
29	7.4	3.4	3.4	26	---	60	429	18	12	14	12	12
30	7.4	3.4	3.4	3.5	---	68	384	18	12	14	12	12
31	7.4	---	3.4	3.5	---	77	---	18	---	14	12	---
TOTAL	227.9	105.0	105.4	6133.4	389.0	300.9	18045	1519	377	402	406	411
MEAN	7.35	3.50	3.40	198	13.9	9.71	602	49.0	12.6	13.0	13.1	13.7
MAX	7.4	6.4	3.4	1500	103	77	1100	404	18	14	14	25
MIN	7.1	3.4	3.4	3.4	3.4	3.4	103	18	12	12	12	11
AC-FT	452	208	209	12170	772	597	35790	3010	748	797	805	815

CAL YR 1968 TOTAL 12781.04 MEAN 34.9 MAX 1000 MIN .08 AC-FT 25350
WTR YR 1969 TOTAL 28421.60 MEAN 77.9 MAX 1500 MIN 3.4 AC-FT 56370

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	9.8	6.4	6.1	6.1	6.1	5.5	8.3	9.8	9.8	10	9.8
2	12	6.4	6.4	6.1	6.1	25	5.5	10	9.8	9.8	10	9.8
3	12	6.4	6.4	6.1	6.1	14	6.1	9.8	9.5	112	9.8	9.8
4	12	6.4	6.4	6.1	6.1	6.1	6.1	9.8	9.5	44	9.8	9.8
5	12	6.4	6.4	6.1	6.1	6.1	6.1	10	9.5	160	10	9.8
6	12	6.4	6.4	6.1	6.1	6.1	6.4	10	9.5	65	10	9.8
7	12	6.4	6.4	6.1	6.1	6.1	6.4	10	9.5	43	10	9.8
8	12	6.4	6.4	6.1	6.1	6.1	6.4	10	9.5	9.8	10	9.8
9	12	6.4	6.4	6.1	6.1	6.1	6.4	10	9.8	9.8	10	9.8
10	12	6.4	6.4	18	6.1	6.1	6.1	10	9.8	9.8	10	9.8
11	12	6.4	6.4	6.1	6.1	6.1	6.1	10	9.8	9.8	10	9.8
12	12	6.4	6.4	6.1	6.1	6.1	6.4	10	9.8	10	10	9.8
13	12	6.4	6.4	52	6.1	6.1	6.4	11	9.8	10	10	9.8
14	12	6.4	6.4	600	6.1	6.1	6.4	11	9.8	10	10	9.8
15	12	6.4	6.4	121	6.1	6.1	6.4	10	9.8	10	10	13
16	12	6.4	6.4	689	9.5	6.1	6.4	10	9.8	10	10	20
17	12	6.4	6.4	551	40	5.2	6.4	10	9.8	9.8	10	20
18	12	6.4	6.4	112	85	4.7	6.4	10	9.8	9.8	10	20
19	12	6.4	6.4	209	21	4.7	6.4	10	9.8	9.8	10	20
20	12	6.4	6.4	271	6.1	4.9	6.4	10	9.8	9.8	10	20
21	12	6.4	6.4	1330	6.1	4.9	6.4	11	9.8	10	10	20
22	12	6.4	6.4	791	6.1	4.9	6.4	11	9.8	10	10	20
23	12	6.4	11	284	6.1	4.9	6.4	11	9.8	10	10	16
24	12	6.4	511	609	6.1	4.9	6.4	11	9.8	10	10	9.5
25	12	6.4	226	278	6.1	4.7	6.4	11	9.8	10	9.8	9.5
26	12	6.4	17	117	6.1	5.1	6.4	12	9.8	10	9.8	9.5
27	12	6.4	6.1	517	6.1	5.5	6.4	11	9.8	10	9.8	9.5
28	12	6.4	6.1	122	6.1	5.5	6.4	10	9.8	10	9.8	9.5
29	12	6.4	6.1	53	---	5.5	6.4	10	9.8	10	9.8	9.5
30	12	6.4	6.1	37	---	5.5	6.4	10	9.8	10	9.8	9.8
31	12	---	6.1	15	--	5.3	---	10	---	10	9.8	---
TOTAL	372	195.4	936.3	6843.1	301.9	200.6	188.7	317.9	292.2	682.0	308.2	373.0
MEAN	12.0	6.51	30.2	221	10.8	6.47	6.29	10.3	9.74	22.0	9.94	12.4
MAX	12	9.8	511	1330	85	25	6.4	12	9.8	160	10	20
MIN	12	6.4	6.1	6.1	6.1	4.7	5.5	8.3	9.5	9.8	9.8	9.5
AC-FT	738	388	1860	13570	599	398	374	631	580	1350	611	740

CAL YR 1969 TOTAL 29487.0 MEAN 80.8 MAX 1500 MIN 3.4 AC-FT 58490
WTR YR 1970 TOTAL 11011.3 MEAN 30.2 MAX 1330 MIN 4.7 AC-FT 21840

NOTE.--NO GAGE-HEIGHT RECORD JAN. 1 TO FEB. 3.

11421800 ROLLINS RESERVOIR NEAR COLFAX, CALIF.

LOCATION.--Lat 39°08'05", long 120°56'54", in NE¼SE¼ sec.22, T.15 N., R.9 E., Placer County, on left bank just upstream from Rollins Dam on Bear River, 2.3 miles north of Colfax.

DRAINAGE AREA.--104 sq mi.

PERIOD OF RECORD.--December 1964 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Nevada Irrigation District).

EXTREMES.--Maximums and minimums (contents in acre-feet, elevation in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum		
Wtr yr	Date	Contents	Elevation	Date	Contents	Elevation
1966	Jan. 5, 1966	67,300	2,172.6	Nov. 7, 1965	31,300	2,117.0
1967	Jan. 21, 1967	68,800	2,174.3	Oct. 2, 1966	56,900	2,159.5
1968	Feb. 21, 1968	67,300	2,172.6	Aug. 4, 1968	43,500	2,139.6
1969	Jan. 20, 1969	69,400	2,175.1	Oct. 1, 1968	51,600	2,152.1
1970	Jan. 21, 1970	70,100	2,175.8	Sept.26-28, 1970	50,700	2,150.8

Period of record: Maximum contents, 70,100 acre-ft Jan. 21, 1970 (elevation, 2,175.8 ft); minimum since reservoir first filled, 28,100 acre-ft Mar. 7, 1965 (elevation, 2,110.0 ft).

REMARKS.--Reservoir is formed by an earthfill dam. Storage began Dec. 15, 1964. Usable capacity, 65,720 acre-ft between elevations 1,970.0 (invert of outlet tunnel) and 2,171.0 ft (spillway crest). Dead storage, 270 acre-ft. Several diversions into and out of basin upstream for power development and irrigation. Stored water is released into Bear River, part of which is diverted to Pacific Gas & Electric Co.'s Bear River Canal for power development. Water is later used for irrigation. See schematic diagram of Bear River basin elsewhere in this report. Records, including extremes, represent total contents.

Capacity table, water years 1966-70 (elevation, in feet, and contents, in acre-feet)

2,080	16,800	2,140	43,800	2,176	70,200
2,120	32,700	2,160	57,300		

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40000	31500	44100	66600	66500	66300	66700	66600	65200	60700	60800	61200
2	39500	31500	44600	66600	66300	66400	66700	66600	65000	60800	60900	61400
3	39100	31500	44300	66600	66600	66500	66800	66400	64700	60800	60800	61200
4	38700	31400	45900	66800	66400	66500	66800	66000	64600	60500	60800	61200
5	38100	31700	46600	67300	66800	66500	66900	66000	64300	60800	60900	61100
6	37600	31600	47400	67000	66900	66500	66700	65700	64100	60800	60800	61400
7	37200	31300	48100	66700	66700	66600	66700	65600	63900	60900	60800	61400
8	36800	31600	48800	66800	66600	66600	66700	65500	63500	60800	60700	61400
9	36300	31400	49400	66700	66500	66700	66700	65700	63900	60800	60900	61500
10	35900	31400	50000	66300	66300	66900	66700	66300	64500	60800	60800	61500
11	35400	31500	50800	66500	66100	66700	66900	66500	63800	60800	60900	61500
12	35000	31700	51500	66500	65700	66600	66900	66500	63200	60700	61100	61700
13	34600	31900	52300	66500	65600	66700	66800	66500	63200	60800	61000	61500
14	34300	32200	53000	66700	65900	66700	66800	66500	63100	60800	61000	61100
15	34000	32600	53600	66400	66300	66700	66700	66500	63000	60800	61200	60500
16	33900	32900	54300	66400	66500	66700	66600	66400	62900	60800	61000	59800
17	33600	33500	54900	66400	66500	66700	66700	66400	63700	60700	61000	59100
18	33400	34900	55600	66700	66400	66700	66500	66200	62300	60800	61000	58500
19	33200	35800	56300	66400	66300	66800	66500	66700	62000	60800	61100	58000
20	33000	36300	56900	66400	66300	66700	66700	66500	61900	60800	61100	57900
21	32900	36800	57600	66400	66300	66800	66600	66500	61500	60900	61100	57200
22	32700	37300	58400	66500	66300	66800	66600	66500	61500	60900	61100	57200
23	32600	38100	58800	66500	66500	66700	66700	66600	61400	60600	61100	57200
24	32500	39700	59600	66300	66700	66700	66700	66600	61200	60500	61100	57200
25	32500	40600	60500	66300	66600	66700	66600	66400	61000	60900	61100	57200
26	32200	41300	61200	66400	66300	66700	66600	66400	60600	60900	61200	57100
27	32100	41900	62000	66600	66200	66700	66700	66100	60600	60500	61100	57100
28	32000	42500	63300	66400	66200	66700	66700	66700	60600	60400	60800	57200
29	31800	43100	65000	66700	---	66700	66600	65400	60500	60800	60800	57200
30	31700	43600	66400	66600	---	66700	66700	65200	60500	60800	61100	57200
31	31600	---	66600	66600	---	66700	---	65600	---	60500	61100	---
MAX	40000	43600	66600	67300	66900	66900	66900	66700	65200	60900	61200	61700
MIN	31600	31300	44100	66300	65600	66300	66500	65200	60500	60400	60700	57100
(†)	2117.6	2139.8	2171.7	2171.7	2171.3	2171.8	2171.8	2170.5	2164.2	2164.2	2164.9	2159.8
(‡)	-8700	+12000	+23000	0	-400	+500	0	-1100	-5100	0	+600	-3900

CAL YR 1965 MAX 67600 MIN 28100 ‡ +5900
WTR YR 1966 MAX 67300 MIN 31300 ‡ +16900

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11421800 ROLLINS RESERVOIR NEAR COLFAX, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57200	57900	67000	64300	67300	66900	66900	66800	66700	66600	66200	66200
2	56900	57900	67500	64200	67100	67000	66900	66800	66700	66600	66300	66200
3	57200	58000	66800	63900	66900	66800	66900	66800	66700	66500	66300	66200
4	57200	58000	66800	63700	67000	66700	66900	66800	66700	66500	66200	66200
5	57200	58100	67300	63500	66900	66700	67000	66800	66700	66500	66200	66200
6	57300	58400	67200	63400	66800	66700	67300	66900	66700	66500	66200	66200
7	57400	58400	67000	63900	66600	66600	67200	67000	66700	66500	66200	66200
8	57500	60600	66900	64300	66600	66300	67000	67000	66700	66500	66200	66200
9	57500	61600	66800	65000	66600	66100	67000	67100	66700	66500	66200	66200
10	57600	62700	66700	65700	66500	66200	67000	67200	66700	66600	66200	66200
11	57500	63200	66700	66300	66700	66300	67000	67100	66700	66500	66200	66200
12	57500	63500	66700	66600	66600	66600	67000	67000	66700	66500	66200	66300
13	57600	63400	66700	66700	66700	66600	66900	66900	66700	66400	66200	66300
14	57600	63800	66700	66700	66800	66600	66900	67000	66700	66500	66200	66300
15	57700	64000	66700	66600	66800	66800	66900	66900	66700	66500	66200	66100
16	57500	64800	66700	66600	66800	68500	66900	67000	66700	66500	65600	64800
17	57800	65100	66700	66600	66700	67200	67000	67000	66700	66500	65500	63800
18	57800	65200	66700	66600	66700	66800	67000	66900	66700	66400	65800	64200
19	57800	65600	66700	66400	66800	66100	67000	66900	66700	66500	66200	64500
20	57800	66700	66700	66700	66900	66400	66900	66900	66700	66400	66200	64800
21	57800	66700	66700	68800	66800	66400	66900	66900	66700	66500	66200	65200
22	57800	66600	66500	67100	67100	66400	66900	66900	66700	66500	66200	65500
23	57800	66400	66200	66700	67100	66500	67000	66900	66700	66400	66200	65700
24	57800	66400	66100	66900	66900	66600	67000	66800	66700	66500	66200	65900
25	57800	66400	66000	66800	66800	66400	67000	66800	66700	66500	66200	66200
26	57800	66400	65800	67000	66800	66200	67000	66800	66700	66500	65900	66200
27	57800	66300	65700	67000	66900	66200	67000	66700	66600	66400	66000	66300
28	57700	66600	65600	67200	67000	66100	66900	66800	66600	66400	66000	66400
29	57600	66700	65200	67700	---	66300	66900	66800	66600	66500	66100	66400
30	57900	66600	64800	67700	---	66700	66900	66700	66600	66400	66200	66400
31	57900	---	64600	67700	---	66900	---	66800	---	66300	66200	---
MAX	57900	66700	67500	68800	67300	68500	67300	67200	66700	66600	66300	66400
MIN	56900	57900	64600	63400	66500	66100	66900	66700	66600	66300	65500	63800
(†)	2160.8	2171.7	2169.3	2173.0	2172.2	2172.1	2172.1	2172.0	2171.7	2171.4	2171.2	2171.5
(‡)	+700	+8700	-2000	+3100	-700	-100	0	-100	-200	-300	-100	+200

CAL YR 1966 MAX 67500 MIN 56900 ‡ -2000
WTR YR 1967 MAX 68800 MIN 56900 ‡ +9200

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66400	65600	63900	61900	64500	66700	66700	64100	60400	48000	44600	53200
2	66400	65800	63600	61700	64300	66700	66800	63900	59800	48200	44600	52900
3	66300	66100	63500	61200	64700	66700	66800	64300	59700	48400	44000	53700
4	66200	66200	64200	60700	64500	66700	66700	64100	59100	47900	43500	54300
5	66200	66400	64900	60100	65100	66700	66700	63500	58600	48000	43600	54200
6	66200	66500	65200	59500	66000	66500	66700	63500	58300	47300	43900	53400
7	66200	66400	65900	59000	66700	66500	66700	63700	58000	46800	44200	52400
8	66200	66500	66200	58400	66700	66400	66800	63900	57900	47100	44600	51400
9	66200	66400	65500	57700	66700	66500	66700	63900	57300	47300	44700	50300
10	66200	66300	65100	58100	66700	66400	66600	64000	56700	47400	44200	49100
11	66200	65600	65100	57700	66400	66500	66600	64100	56500	47400	44000	48000
12	66200	64600	65700	57200	66200	66700	66700	64200	55800	47400	44300	46800
13	66100	64600	65700	56700	66200	67000	66600	64400	55500	47400	44400	45800
14	65600	65100	66100	56400	66100	67100	66700	64600	55000	47200	45100	45400
15	65100	65600	66200	59000	65700	67100	66600	64800	54600	47300	45900	45100
16	64600	65700	65900	59800	65400	67200	66600	64600	54100	47300	46300	45200
17	64600	65800	65300	60500	66100	67200	66500	64800	53700	47200	46300	45800
18	64600	65400	65100	61500	66200	67100	66400	64700	53300	47100	46200	46300
19	64600	64900	64900	62200	66700	67000	66400	64400	52900	46900	47000	46800
20	64700	64800	64700	61900	67100	67100	66400	64600	52400	46300	47800	47000
21	64800	64900	64300	61500	67300	67000	66400	64100	51900	46000	48400	47600
22	64700	65000	64100	61600	67100	67000	66400	63900	51400	45900	49000	48100
23	65000	64300	63300	62300	67200	67000	66100	63800	50900	45900	49700	48400
24	65100	64300	62700	63100	67100	66800	65500	63500	50400	45700	50000	48600
25	65200	63500	62300	63900	67000	66700	65500	63100	50000	45800	50000	49400
26	65400	62900	61900	64500	66900	66600	65400	62600	49800	45600	50600	49700
27	65700	63100	61700	64500	66800	66600	65200	62600	49200	44900	51300	50000
28	65200	63100	61500	64700	66800	66600	64600	61900	48800	44300	52000	50300
29	64900	63500	61800	65000	66700	66600	64500	61700	48400	44400	52900	50700
30	65400	63600	61900	64700	---	66600	64300	61100	47900	44400	53200	51100
31	65500	---	62100	65000	---	66700	---	60900	---	44200	53100	---
MAX	66400	66500	66200	65000	67300	67200	66800	64800	60400	48400	53200	54300
MIN	64600	62900	61500	56400	64300	66400	64300	60900	47900	44200	43500	45100
(†)	2170.4	2168.1	2166.2	2169.8	2171.9	2171.8	2169.0	2164.7	2146.6	2140.7	2154.2	2151.4
(‡)	-900	-1900	-1500	+2900	+1700	0	-2400	-3400	-13000	-3700	+8900	-2000

CAL YR 1967 MAX 68800 MIN 61500 ‡ -2500
WTR YR 1968 MAX 67300 MIN 43500 ‡ -15300

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11421800 ROLLINS RESERVOIR NEAR COLFAX, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51600	64800	64200	66400	67000	67200	67000	67000	66800	66600	66400	65000
2	52000	64700	63900	66400	67000	67100	67100	67000	66800	66700	66400	64800
3	52200	65200	63800	66300	67000	67000	67000	66900	66800	66700	66400	65200
4	52700	65300	63200	66200	67000	67000	67000	66900	66700	66600	66300	65500
5	53000	65500	62900	66200	67200	67100	67300	66900	66700	66700	66300	66000
6	53500	65700	62600	66500	67200	67000	67100	66900	66700	66700	66400	66300
7	53900	66000	62100	66500	67000	67000	67100	66900	66700	66700	66300	66200
8	54400	66200	61500	66500	67000	66900	67100	66900	66700	66700	66300	65900
9	54700	66000	61500	66300	67100	66900	67000	66900	66700	66700	66300	64800
10	55100	65800	61500	66200	67000	66700	67000	67000	66700	66700	66300	63900
11	55700	65900	62000	66500	67300	66700	67000	66900	66700	66700	66300	62800
12	56500	66400	62300	66700	67200	66600	67000	66900	66700	66600	66300	61900
13	57000	66500	62700	68100	67100	66500	67000	66900	66700	66700	66400	60800
14	57500	66600	63000	67200	67200	66700	67000	66900	66700	66600	66300	59900
15	58000	66500	63700	66900	67700	66900	67000	66800	66700	66700	66300	58800
16	58400	66600	64000	66900	67300	66900	67000	66800	66700	66700	66200	57800
17	59000	66500	64300	66700	67200	66900	67000	66800	66700	66700	66300	56800
18	59300	66600	64400	66700	67100	67100	67000	66800	66700	66600	66300	55700
19	59700	66600	64700	68300	67000	67100	67000	66800	66700	66600	66300	54700
20	60100	66600	64800	69400	67000	67100	67000	66800	66700	66600	66300	54900
21	60500	66400	64800	69000	67000	67100	67000	66800	66700	66700	66300	55300
22	61000	66400	64800	67900	67000	67000	67000	66800	66700	66700	66300	55800
23	61500	66500	64900	67400	67000	67100	67100	66800	66700	66600	66200	56500
24	61700	66400	66300	67500	67100	67100	67000	66800	66700	66600	66200	56800
25	62100	66300	67000	68800	67000	66800	67000	66800	66700	66600	66300	57300
26	62500	65900	66700	68100	67000	66900	67000	66700	66700	66600	66300	57900
27	62900	65800	66600	67700	67000	67000	67000	66700	66700	66600	66300	58200
28	63100	65400	66600	67200	67200	67000	67000	66800	66700	66600	66200	58700
29	63900	65100	66600	67100	---	67100	67000	66800	66700	66600	66200	59400
30	64000	64700	66500	67100	---	67100	67000	66800	66700	66700	65700	59900
31	64500	---	66500	67100	---	67100	---	66700	---	66600	65300	---
MAX	64500	66600	67000	69400	67700	67200	67300	67000	66800	66700	66400	66300
MIN	51600	64700	61500	66200	67000	66500	67000	66700	66700	66600	65300	54700
(†)	2169.2	2169.4	2171.6	2172.3	2172.5	2172.3	2172.2	2171.9	2171.8	2171.7	2170.2	2163.4
(‡)	+13400	+200	+1800	+600	+100	-100	-100	-300	0	-100	-1300	-5400

CAL YR 1968 MAX 67300 MIN 43500 ‡ +4400
WTR YR 1969 MAX 69400 MIN 51600 ‡ +8800

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60400	66200	64200	66700	67000	67200	66800	66800	66700	61900	53700	61500
2	61000	66300	64300	66700	67000	67000	66800	66700	66700	61600	53900	61900
3	61500	66300	64400	66700	66900	67000	66900	66800	66700	60700	54000	62300
4	61900	66400	64500	66600	67000	67000	66800	66800	66700	59800	54200	62700
5	62400	66500	64500	66600	66900	66900	66800	66700	66700	58200	54200	63100
6	62800	66600	64000	66700	66900	67000	66800	66700	66700	58100	54300	63500
7	63200	66500	63500	66700	66900	67000	66800	66700	66700	57200	54400	63900
8	63800	66600	63700	66700	66900	67200	66800	66700	66700	56100	54400	64300
9	64300	66500	63800	66900	66900	67200	66800	66700	66700	55100	54500	64800
10	64700	66300	64000	66900	66900	67200	66700	66700	66700	54100	54700	65200
11	65000	66400	64300	66800	66900	67200	66600	66700	66700	53500	54800	65400
12	65500	66400	64700	66900	67000	67200	66700	66800	66700	52700	54900	64800
13	66000	66500	65100	67200	67100	67200	66700	66800	66400	52400	55000	63900
14	66300	66500	65200	68100	67000	67200	66800	66800	66300	52400	55100	62800
15	66700	66400	65500	67300	67000	67200	66800	66700	66200	52500	55200	61700
16	66700	66200	65400	68300	67200	67200	66800	66800	66300	52400	55200	60700
17	66600	66400	64900	68000	67100	67200	66800	66700	66200	52600	55400	59700
18	66600	66400	64400	67400	67100	67200	66700	66700	66000	52700	55500	58600
19	66600	66500	65000	67700	67000	67200	66700	66700	65700	52800	55800	57500
20	66600	66400	66900	67600	67000	67100	66800	66700	65200	53000	56300	56500
21	66600	66400	67200	70100	66900	67000	66800	66700	64500	53000	56700	55500
22	66600	66400	66800	68200	66900	67000	66800	66700	64400	53300	57200	54400
23	66700	66200	67500	68000	66900	67100	66800	66700	64100	53200	57600	53400
24	66600	66400	67700	67900	66800	67100	66800	66700	63900	53300	57900	52400
25	66600	66100	67200	67500	66900	66900	66700	66700	63500	53400	58400	51300
26	66600	66200	66900	67300	66900	66800	66800	66700	63200	53400	58800	50700
27	66500	65300	66700	67700	66800	66900	66800	66700	62900	53500	59400	50700
28	66300	64900	66700	67300	66900	66800	66700	66700	62700	53700	59700	50700
29	66200	64600	66700	67200	---	66900	66700	66700	62400	53700	60100	51100
30	66200	64100	66700	67100	---	66900	66800	66700	62300	53800	60600	51000
31	66200	---	66700	67100	---	66700	---	66700	---	53900	61100	---
MAX	66700	66600	67700	70100	67200	67200	66900	66800	66700	61900	61100	65400
MIN	60400	64100	63500	66600	66800	66700	66600	66700	62300	52400	53700	50700
(†)	2717.2	2168.7	2171.8	2172.3	2172.1	2171.9	2172.0	2171.9	2166.4	2155.3	2164.9	2151.2
(‡)	+6300	-2100	+2600	+400	-200	-200	+100	-100	-4400	-8400	+7200	-10100

CAL YR 1969 MAX 69400 MIN 54700 ‡ +200
WTR YR 1970 MAX 70100 MIN 50700 ‡ -8900

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11422000 BEAR RIVER CANAL INTAKE NEAR COLFAX, CALIF.

LOCATION.--Lat 39°07'58", long 120°57'12", in SW¼SE¼ sec.22, T.15 N., R.9 E., Placer County, on right bank 600 ft downstream from canal inlet, 0.2 mile downstream from Rollins Dam, and 2.2 miles north of Colfax.

PERIOD OF RECORD.--January 1912 to September 1953, October 1964 to September 1970. Monthly discharge only for some periods, published in WSP 1315-A. Prior to October 1913, published as Pacific Gas & Electric Co.'s Canal near Colfax and October 1913 to September 1953 as Bear River Canal near Colfax.

GAGE.--Water-stage recorder. Altitude of gage is 1,980 ft (from topographic map). Prior to Mar. 25, 1946, water-stage recorder at site 1.5 miles downstream at different datum.

AVERAGE DISCHARGE.--47 years, 274 cfs (198,500 acre-ft per year).

EXTREMES.--Period of record: Maximum daily discharge, 499 cfs Apr. 20-22, 1966, Aug. 1-3, 1967; no flow at times in most years.

REMARKS.--Canal diverts from left bank of Bear River. Water is first used to develop power at Halsey and Wise powerhouse, part of it is then distributed for irrigation and part is eventually spilled into North Fork American River. See schematic diagram of Bear River basin elsewhere in this report.

COOPERATION.--Water-stage-recorder graph and 20 discharge measurements for the water years 1966-67 furnished by Pacific Gas & Electric Co., in connection with a Federal Power Commission project. Records for the water years 1968-70 collected by Pacific Gas & Electric Co., under general supervision of the Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	221	143	449	442	457	0	460	495	288	256	388	460
2	221	138	449	442	456	0	472	495	286	256	459	398
3	220	138	450	442	456	81	483	495	287	255	458	274
4	215	139	452	443	456	246	484	495	286	255	457	275
5	197	145	454	439	456	249	484	371	284	255	397	275
6	188	148	456	424	456	251	485	296	283	263	268	396
7	188	148	451	429	456	251	487	285	283	268	272	463
8	187	332	447	437	456	245	487	284	285	269	386	461
9	186	456	447	437	456	251	488	283	284	269	458	400
10	186	460	453	436	456	251	489	284	226	269	458	268
11	185	462	459	437	456	332	487	284	426	269	459	272
12	184	463	460	442	456	442	484	285	446	269	394	386
13	171	464	461	453	456	424	484	285	341	269	265	344
14	161	464	461	454	0	424	482	286	303	269	269	274
15	160	465	460	454	0	428	481	286	267	269	388	273
16	161	468	461	453	0	431	480	286	248	269	460	273
17	162	457	460	454	0	432	480	287	204	270	461	272
18	168	390	460	454	0	433	479	286	266	270	461	272
19	163	412	460	454	0	433	488	287	280	269	389	272
20	162	458	460	454	0	434	499	288	280	267	268	272
21	149	457	460	454	0	435	499	289	273	266	268	368
22	137	458	460	454	0	436	499	290	269	268	395	451
23	136	460	460	454	0	437	498	290	270	269	459	452
24	136	440	460	454	0	437	498	280	268	269	460	470
25	136	426	459	454	100	438	498	286	267	269	459	482
26	137	429	460	454	237	439	497	285	267	269	388	482
27	146	441	461	455	237	441	497	285	267	269	274	483
28	153	449	415	455	0	442	496	283	267	269	273	484
29	153	451	392	456	---	450	495	286	266	270	396	484
30	153	450	435	457	---	459	495	285	262	270	459	484
31	153	---	442	457	---	461	---	287	---	270	459	---
TOTAL	5275	11211	14014	13884	6503	10913	14635	9789	8529	8263	12105	11220
MEAN	170	374	452	448	232	352	488	316	284	267	390	374
MAX	221	468	461	457	457	461	499	495	446	270	461	484
MIN	136	138	392	424	0	0	460	280	204	255	265	268
AC-FT	10460	22240	27800	27540	12900	21650	29030	19420	16920	16390	24010	22250

CAL YR 1965 TOTAL 131812.00 MEAN 361 MAX 487 MIN 0 AC-FT 261400
WTR YR 1966 TOTAL 126341.00 MEAN 346 MAX 499 MIN 0 AC-FT 250600

11422000 BEAR RIVER CANAL INTAKE NEAR COLFAX, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	485	479	481	467	415	0	452	454	469	488	499	498
2	486	481	434	467	438	1.6	453	455	468	488	499	498
3	487	482	404	467	453	85	453	455	468	490	499	498
4	484	483	399	467	453	320	453	454	468	490	498	497
5	476	483	403	467	452	352	454	453	467	491	498	497
6	476	483	403	467	451	352	427	453	468	491	498	497
7	480	5.4	398	474	450	414	405	453	469	492	497	497
8	485	0	426	486	450	455	423	451	471	492	497	497
9	480	0	470	485	450	454	448	450	473	493	496	496
10	480	0	461	481	464	453	417	450	476	493	496	496
11	480	252	455	479	470	453	425	448	477	491	496	496
12	480	435	455	478	470	429	451	447	479	492	495	496
13	479	480	455	478	461	401	452	446	479	492	495	496
14	480	480	455	478	452	412	452	446	480	493	495	496
15	479	481	456	478	455	429	452	456	480	493	496	495
16	477	481	456	478	455	379	452	469	481	493	496	495
17	476	481	456	479	455	382	437	470	481	494	497	495
18	475	480	456	479	456	413	408	469	480	494	497	495
19	474	481	456	479	444	430	406	474	481	495	497	495
20	475	483	456	465	0	430	436	475	481	495	497	496
21	475	482	456	436	0	445	451	471	482	495	497	496
22	475	481	457	404	0	454	451	457	482	496	497	496
23	476	481	457	386	0	455	451	450	484	496	497	496
24	476	481	470	388	0	459	453	443	484	495	497	495
25	477	480	478	402	0	463	453	459	484	495	497	495
26	477	480	478	452	0	463	453	468	485	495	497	495
27	478	480	473	456	0	463	453	468	486	495	497	494
28	479	481	468	438	0	463	453	469	487	495	497	493
29	479	480	468	422	---	462	453	467	487	495	497	492
30	480	253	468	418	---	420	453	459	488	496	497	491
31	480	---	468	421	---	453	---	467	---	498	497	---
TOTAL	14846	12009.4	13976	14122	8594	12044.6	13280	14206	14345	15291	15405	14869
MEAN	479	400	451	456	307	389	443	458	478	493	497	496
MAX	487	483	481	486	470	463	454	475	488	498	499	498
MIN	474	0	398	386	0	0	405	443	467	488	495	491
AC-FT	29450	23820	27720	28010	17050	23890	26340	28180	28450	30330	30560	29490

CAL YR 1966 TOTAL 136672.40 MEAN 374 MAX 499 MIN 0 AC-FT 271100
WTR YR 1967 TOTAL 162988.00 MEAN 447 MAX 499 MIN 0 AC-FT 323300

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	489	493	469	454	463	459	456	452	478	478	480	285
2	490	493	452	452	462	460	455	450	479	479	480	289
3	491	493	455	452	462	461	454	452	479	479	479	302
4	491	494	456	451	461	461	455	455	479	479	477	319
5	491	494	460	450	461	461	455	455	479	479	478	411
6	491	494	459	449	463	461	454	456	479	479	477	449
7	489	495	456	449	464	461	454	458	479	480	477	449
8	489	495	456	449	464	390	454	454	479	479	477	449
9	490	495	456	447	464	0	454	400	479	479	477	450
10	491	495	456	449	464	0	454	352	479	479	477	450
11	494	495	455	447	464	0	454	349	479	477	477	450
12	496	495	455	447	464	0	454	348	479	478	477	450
13	494	495	455	445	464	0	454	346	478	477	477	450
14	493	495	456	446	461	0	454	347	479	477	327	450
15	493	495	456	450	456	0	454	348	479	477	281	450
16	493	495	455	451	455	0	455	347	480	476	299	450
17	493	495	455	451	457	0	451	349	480	477	297	449
18	493	495	455	452	457	0	448	351	480	477	299	450
19	493	495	455	454	459	0	448	350	480	479	300	450
20	493	495	454	454	462	0	448	350	481	480	308	449
21	493	495	454	455	460	0	448	350	481	480	310	449
22	493	495	454	455	457	0	448	440	482	481	310	448
23	493	495	453	455	458	0	448	481	482	481	296	448
24	493	495	453	456	457	94	448	483	482	481	290	448
25	493	495	453	458	457	369	449	483	481	481	291	464
26	493	495	453	459	458	456	450	483	479	481	283	480
27	493	495	453	461	459	455	451	480	478	481	275	479
28	493	495	452	462	459	455	452	478	479	481	275	478
29	493	495	452	462	460	456	456	479	478	481	275	479
30	493	495	453	463	---	455	458	479	478	480	274	480
31	493	---	454	463	---	456	---	479	---	480	274	---
TOTAL	15260	14841	14110	14048	13352	6810	13573	12984	14384	14853	11474	13004
MEAN	492	495	455	453	460	220	452	419	479	479	370	433
MAX	496	495	469	463	464	461	458	483	482	481	480	480
MIN	489	493	452	445	455	0	448	346	478	476	274	285
AC-FT	30270	29440	27990	27860	26480	13510	26920	25750	28530	29460	22760	25790

CAL YR 1967 TOTAL 166367.60 MEAN 456 MAX 499 MIN 0 AC-FT 330000
WTR YR 1968 TOTAL 158693.00 MEAN 434 MAX 496 MIN 0 AC-FT 314800

11422000 BEAR RIVER CANAL INTAKE NEAR COLFAX, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	448	449	446	431	399	399	447	457	467	466	456	456
2	448	450	446	431	399	397	448	464	466	466	456	456
3	449	451	445	431	401	416	447	462	466	466	458	456
4	449	451	447	431	401	445	447	464	466	466	457	456
5	449	451	448	430	396	445	447	464	466	466	456	456
6	449	451	448	431	395	445	447	465	466	466	456	456
7	449	452	448	431	392	445	449	465	466	466	456	456
8	449	452	449	439	392	445	450	465	466	466	456	456
9	449	452	449	445	392	445	449	465	462	457	456	456
10	449	451	450	446	426	446	449	465	464	456	456	456
11	449	451	450	405	447	446	449	465	465	456	456	455
12	449	451	451	384	448	446	450	466	465	457	456	455
13	449	450	451	393	447	446	450	466	465	457	455	455
14	449	451	451	428	419	447	449	465	465	457	455	455
15	449	451	452	445	389	447	449	465	466	457	455	455
16	449	450	437	445	388	442	449	465	465	458	456	455
17	449	448	427	446	276	4.0	450	465	466	458	455	455
18	449	447	425	448	11	0	450	465	466	458	456	454
19	447	445	427	417	149	0	450	465	466	458	456	454
20	451	445	428	375	343	0	450	465	466	457	455	454
21	451	444	430	136	379	0	450	465	466	457	455	454
22	450	443	430	208	397	0	450	465	465	457	455	453
23	450	443	431	395	398	0	450	465	464	457	455	453
24	450	443	432	401	397	0	450	465	465	457	455	454
25	450	443	435	381	397	158	450	466	465	457	456	454
26	450	443	430	339	396	361	450	466	467	457	456	454
27	449	443	427	333	396	445	450	465	466	457	456	454
28	449	443	426	336	400	448	450	466	466	456	455	454
29	450	444	427	337	---	447	450	465	466	456	455	454
30	450	446	427	374	---	447	450	466	465	456	455	453
31	450	---	428	398	---	448	---	466	---	456	456	---
TOTAL	13927	13434	13598	12170	10470	9760.0	13476	14408	13965	14237	14127	13644
MEAN	449	448	439	393	374	315	449	465	466	459	456	455
MAX	451	452	452	448	448	448	450	466	467	466	458	456
MIN	447	443	425	136	11	0	447	457	462	456	455	453
AC-FT	27620	26650	26970	24140	20770	19360	26730	28580	27700	28240	28020	27060

CAL YR 1968 TOTAL 155441.00 MEAN 425 MAX 483 MIN 0 AC-FT 308300
WTR YR 1969 TOTAL 157216.00 MEAN 431 MAX 467 MIN 0 AC-FT 311800

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	453	456	458	437	447	440	440	439	454	455	457	455
2	452	456	458	437	447	440	439	440	454	455	457	454
3	452	456	458	437	448	432	438	439	454	455	457	454
4	452	456	458	438	449	424	437	440	454	456	457	454
5	452	439	458	438	440	424	437	453	454	456	457	453
6	452	433	458	439	437	431	437	459	454	456	457	454
7	451	432	458	440	437	438	437	469	455	456	457	453
8	451	432	458	440	437	329	438	473	454	456	457	454
9	451	432	458	404	438	0	439	473	454	456	458	454
10	451	435	458	405	438	0	439	474	453	456	457	454
11	451	437	458	404	438	0	439	473	454	457	457	454
12	451	441	458	402	439	0	440	468	454	457	458	454
13	452	442	458	403	418	0	440	465	454	457	458	454
14	455	441	458	380	417	0	440	460	455	458	458	455
15	457	442	458	356	437	0	440	454	455	458	458	455
16	455	442	458	365	438	0	440	455	456	458	458	455
17	455	443	458	361	439	0	441	456	457	458	458	455
18	455	444	457	397	438	0	442	456	455	458	458	456
19	454	426	447	420	437	0	443	457	453	458	458	456
20	455	456	436	409	437	74	444	457	453	457	458	456
21	456	456	439	385	437	106	443	456	454	457	458	456
22	456	456	436	346	438	107	443	453	454	456	457	456
23	456	456	437	346	438	107	442	453	454	456	457	457
24	457	448	388	365	438	107	442	453	454	456	456	457
25	457	438	388	404	438	238	442	453	454	457	456	457
26	457	438	444	404	438	399	441	453	455	457	456	457
27	457	438	444	404	438	437	440	454	455	457	455	457
28	457	448	444	404	438	439	440	454	455	457	456	457
29	456	457	445	404	---	440	440	454	454	457	456	457
30	456	457	441	409	---	440	440	454	455	457	456	458
31	456	---	437	433	---	442	---	454	---	457	455	---
TOTAL	14078	13333	13869	12516	12259	6694	13203	14151	13630	14157	14168	13658
MEAN	454	444	447	404	438	216	440	456	454	457	457	455
MAX	457	457	458	440	449	442	444	474	457	458	458	458
MIN	451	426	388	346	417	0	437	439	453	455	455	453
AC-FT	27920	26450	27510	24830	24320	13280	26190	28070	27040	28080	28100	27090

CAL YR 1969 TOTAL 157537.00 MEAN 432 MAX 467 MIN 0 AC-FT 312500
WTR YR 1970 TOTAL 155716.00 MEAN 427 MAX 474 MIN 0 AC-FT 308900

11422500 BEAR RIVER BELOW ROLLINS DAM, NEAR COLFAX, CALIF.

LOCATION.--Lat 39°07'53", long 120°57'29", in SE¼SW¼ sec.22, T.15 N., R.9 E., Nevada County, on right bank 65 ft downstream from highway bridge, 0.5 mile downstream from Rollins Dam, and 2.2 miles north of Colfax.

DRAINAGE AREA.--105 sq mi.

PERIOD OF RECORD.--January 1912 to September 1913, October 1913 to July 1915 (gage heights and discharge measurements only), August 1915 to June 1917, November 1949 to September 1953, August 1964 to September 1970. Prior to August 1964, published as "near Colfax." Monthly discharge only for some periods, published in WSP 1315-A. Records for November and December 1911 include diversion to Bear River Canal and are not equivalent.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,927.41 ft above mean sea level. See WSP 1931 for history of changes prior to Oct. 1, 1953.

AVERAGE DISCHARGE.--11 years (1912-13, 1915-16, 1950-53, 1964-70), 376 cfs (272,400 acre-ft per year), unadjusted.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 5, 1966	1,720	4.44	Nov. 19, 1965, Feb. 13, 1966	13
1967	Jan. 21, 1967	6,700	8.50	Nov. 8, 1966	16
1968	Feb. 21, 1968	2,250	5.06	Nov. 26, 27, 1967	19
1969	Jan. 20, 1969	10,100	10.51	Dec. 17, 1968	18
1970	Jan. 21, 1970	12,700	11.72	Dec. 8, 1969	20

Period of record: Maximum discharge, 9,620 cfs Nov. 20, 1950 (gage height, 21.40 ft, site and datum then in use), from rating curve extended above 3,600 cfs on basis of slope-area measurement of peak flow; no flow at times in 1912, 1952. Maximum discharge since construction of Rollins Dam in 1964, 12,700 cfs Jan. 21, 1970 (gage height, 11.72 ft), from rating curve extended above 6,000 cfs; minimum daily, 0.50 cfs Nov. 17, 1964.

REMARKS.--Records good. Flow regulated by Rollins Reservoir (see station 11421800) beginning Dec. 15, 1964. Bear River Canal (see station 11422000) diverts above station. See schematic diagram of Bear River basin elsewhere in this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	36	15	436	276	360	665	399	66	67	77	72
2	56	36	15	383	182	359	515	367	63	67	69	75
3	56	36	16	360	250	354	470	266	67	67	66	74
4	56	36	16	464	186	214	449	90	69	67	69	70
5	56	36	16	1280	370	218	479	188	69	67	67	70
6	54	36	16	1330	822	205	529	208	70	66	66	70
7	54	36	16	679	670	230	557	80	70	66	66	69
8	54	39	16	767	461	293	430	80	72	66	69	69
9	54	40	16	595	337	294	444	80	74	66	72	66
10	54	39	16	300	196	552	590	95	75	66	72	67
11	54	40	16	312	95	605	735	276	74	66	72	69
12	54	40	16	294	14	395	710	319	77	66	72	69
13	54	39	16	261	13	419	665	290	74	67	72	67
14	54	40	15	294	212	453	533	315	75	67	72	66
15	54	39	15	299	236	436	645	305	77	67	72	69
16	54	24	15	190	383	479	492	333	77	67	72	69
17	54	17	16	154	419	524	506	290	77	67	72	69
18	54	17	16	340	428	542	610	301	75	67	70	69
19	42	13	16	298	352	645	333	256	72	69	70	69
20	34	14	16	182	301	576	436	457	72	69	69	69
21	34	15	16	170	287	576	419	352	67	69	69	69
22	35	15	15	205	284	710	379	364	69	70	72	69
23	36	16	15	211	308	497	352	395	72	75	72	69
24	36	21	17	155	533	457	399	605	70	75	72	69
25	36	15	20	103	480	524	387	650	70	77	70	69
26	37	15	16	110	205	519	323	600	67	75	70	69
27	36	15	15	218	114	506	360	321	65	74	70	69
28	36	15	23	157	330	387	371	80	66	70	70	69
29	37	14	22	218	---	515	345	63	66	72	72	70
30	37	14	52	345	---	387	319	66	66	72	74	70
31	37	---	391	294	---	519	---	64	---	72	74	---
TOTAL	1455	808	917	11404	8744	13750	14447	8555	2123	2138	2191	2079
MEAN	46.9	26.9	29.6	368	312	444	482	276	70.8	69.0	70.7	69.3
MAX	56	40	391	1330	822	710	735	650	77	77	77	75
MIN	34	13	15	103	13	205	319	63	63	66	66	66
AC-FT	2890	1600	1820	22620	17340	27270	28660	16970	4210	4240	4350	4120

CAL YR 1965 TOTAL 113194.90 MEAN 310 MAX 5840 MIN .80 AC-FT 224500
WTR YR 1966 TOTAL 68611.00 MEAN 188 MAX 1330 MIN 13 AC-FT 136100

11422500 BEAR RIVER BELOW ROLLINS DAM, NEAR COLFAX, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	78	460	20	2000	705	877	850	533	356	352	182
2	69	74	1280	20	1450	705	894	838	635	436	319	182
3	69	70	1590	20	928	625	888	838	529	356	323	179
4	64	70	794	20	934	403	922	844	542	387	319	190
5	56	70	1800	20	794	305	1080	838	576	364	308	208
6	56	72	1820	20	700	301	1410	833	630	323	305	218
7	60	39	1450	22	423	238	1730	899	566	371	308	202
8	66	16	1040	22	345	150	1360	994	524	387	319	193
9	69	17	725	22	326	42	1080	1070	470	348	323	199
10	69	17	828	21	301	25	1070	1430	470	367	319	205
11	69	19	660	30	319	64	1150	1260	449	403	315	253
12	69	17	501	188	290	156	1010	1100	479	330	319	287
13	67	17	515	270	273	305	964	988	581	294	315	294
14	67	17	542	294	399	259	988	922	510	333	308	287
15	67	19	497	280	436	283	952	952	444	337	250	270
16	67	22	440	305	466	3470	934	904	395	345	205	136
17	67	18	444	290	432	3060	976	958	466	379	182	136
18	67	18	470	280	379	1160	1240	934	444	305	182	136
19	69	20	403	159	436	778	1220	882	453	356	188	134
20	70	94	403	170	889	576	1010	860	399	294	270	126
21	72	534	399	3050	860	218	1020	850	428	364	298	126
22	72	453	345	3240	789	259	1020	860	419	330	266	128
23	74	253	94	902	816	341	1090	844	375	273	250	128
24	74	121	36	1080	882	330	1220	828	356	364	233	128
25	74	84	19	1010	635	492	1110	670	395	326	214	128
26	74	101	19	934	581	141	1060	576	457	330	196	162
27	74	82	20	1170	571	84	1070	524	419	294	179	233
28	74	126	21	1410	685	25	982	557	371	290	157	250
29	74	652	21	3050	---	34	904	767	407	326	141	250
30	77	575	21	2520	---	291	877	416	364	356	160	266
31	80	---	21	3050	---	872	---	720	---	273	179	---
TOTAL	2146	3765	17678	23889	18339	16697	32108	26806	14086	10597	8002	5816
MEAN	69.2	126	570	771	655	539	1070	865	470	342	258	194
MAX	80	652	1820	3240	2000	3470	1730	1430	635	436	352	294
MIN	56	16	19	20	273	25	877	416	356	273	141	126
AC-FT	4260	7470	35060	47380	36380	33120	63690	53170	27940	21020	15870	11540

CAL YR 1966 TOTAL 89020 MEAN 244 MAX 1820 MIN 13 AC-FT 176600
WTR YR 1967 TOTAL 179929 MEAN 493 MAX 3470 MIN 16 AC-FT 356900

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	290	41	21	21	23	630	610	53	68	67	84	82
2	258	22	21	21	31	625	694	71	68	68	85	82
3	212	22	23	21	26	656	640	71	67	67	85	82
4	122	44	24	21	25	565	550	73	67	66	85	82
5	85	82	24	21	24	667	620	73	67	66	85	80
6	82	110	22	21	23	514	514	71	67	67	88	82
7	87	96	24	21	292	387	536	71	67	66	87	82
8	92	136	24	20	620	460	645	71	67	70	88	82
9	92	97	25	20	667	834	540	70	66	79	88	118
10	88	107	22	25	700	810	307	70	66	77	88	175
11	77	30	22	22	521	799	221	70	66	76	88	175
12	73	22	21	22	112	495	251	70	66	76	88	178
13	77	22	22	21	77	1050	258	70	66	76	88	180
14	71	22	25	22	38	1200	230	70	66	76	88	155
15	77	23	60	33	22	1220	237	70	66	76	87	97
16	77	23	34	23	23	1270	265	71	67	76	85	95
17	76	23	22	22	28	1450	240	71	67	76	87	95
18	76	23	22	22	71	1270	221	71	67	76	87	97
19	74	23	22	22	85	1290	162	71	67	76	87	97
20	74	22	22	21	1630	1050	192	71	67	74	87	97
21	74	22	22	21	1780	1000	215	71	67	74	85	95
22	74	22	22	21	1620	1030	218	73	67	74	84	92
23	74	21	22	20	1440	978	121	74	68	76	82	92
24	74	20	22	21	1320	1020	31	71	70	76	82	88
25	74	20	22	21	1050	738	22	71	67	80	82	77
26	74	19	21	22	906	340	22	70	68	88	82	79
27	74	19	21	22	810	318	22	71	68	85	82	80
28	74	22	21	22	744	293	22	71	68	82	82	79
29	74	24	21	22	635	375	25	70	68	80	82	77
30	74	24	21	26	---	335	26	68	67	80	82	77
31	74	---	21	24	---	335	---	68	---	82	82	---
TOTAL	2974	1203	738	684	15343	24004	8657	2177	2013	2328	2642	3049
MEAN	95.9	40.1	23.8	22.1	529	774	289	70.2	67.1	75.1	85.2	102
MAX	290	136	60	33	1780	1450	694	74	70	88	88	180
MIN	71	19	21	20	22	293	22	53	66	66	82	77
AC-FT	5900	2390	1460	1360	30430	47610	17170	4320	3990	4620	5240	6050

CAL YR 1967 TOTAL 161255 MEAN 442 MAX 3470 MIN 19 AC-FT 319800
WTR YR 1968 TOTAL 65812 MEAN 180 MAX 1780 MIN 19 AC-FT 130500

11422500 BEAR RIVER BELOW ROLLINS DAM, NEAR COLFAX, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	39	22	215	1170	1540	1050	918	605	325	335	237
2	79	19	21	144	1220	1240	1130	948	544	382	324	237
3	73	22	20	89	1090	1230	1160	936	562	351	318	160
4	70	19	21	38	1070	888	1030	888	548	331	282	80
5	70	19	21	30	1200	1060	1430	858	528	308	290	83
6	70	20	21	210	1600	954	1450	824	558	353	307	93
7	70	21	20	272	1180	1030	1220	807	571	348	282	137
8	70	22	20	164	1100	882	1120	812	530	326	293	90
9	70	22	19	125	1120	834	1060	824	571	335	314	78
10	70	19	22	65	1100	774	1010	900	526	411	314	77
11	70	19	22	111	1300	368	1030	864	540	356	290	75
12	71	37	22	447	2220	332	1040	796	540	356	314	72
13	70	126	23	1680	1500	188	1030	790	540	317	310	74
14	70	167	28	2500	1350	244	1010	796	562	303	290	74
15	70	210	31	904	2340	730	942	758	520	440	286	74
16	70	190	22	880	2280	670	918	675	501	312	293	74
17	68	176	18	707	1840	1200	900	630	600	366	293	72
18	68	168	22	335	1920	1120	924	615	516	293	304	74
19	71	188	24	2740	1580	972	936	650	566	347	293	72
20	67	146	22	7820	1260	912	894	665	620	311	290	74
21	68	117	21	8560	1200	978	900	553	530	373	286	75
22	70	126	21	5330	1100	924	918	645	535	337	318	75
23	70	154	22	2730	1100	802	1130	558	526	330	279	75
24	70	133	36	2150	1190	966	1060	625	512	353	276	75
25	70	152	1020	4160	1120	942	966	610	512	284	293	75
26	70	46	806	5950	1200	780	900	535	522	349	293	75
27	68	20	350	3070	1030	796	882	645	492	321	304	75
28	68	20	335	2300	1440	894	858	605	500	344	282	83
29	70	20	276	1810	---	924	942	512	520	297	276	83
30	70	21	228	1480	---	1010	906	566	441	346	250	77
31	68	---	203	1290	---	1030	---	517	---	294	240	---
TOTAL	2176	2458	3759	58306	38820	27214	30746	22325	16138	10499	9119	2775
MEAN	70.2	81.9	121	1881	1386	878	1025	720	538	339	294	92.5
MAX	79	210	1020	8560	2340	1540	1450	948	620	440	335	237
MIN	67	19	18	30	1030	188	858	512	441	284	240	72
AC-FT	4320	4880	7460	115600	77000	53980	60980	44280	32010	20820	18090	5500

CAL YR 1968 TOTAL 69290 MEAN 189 MAX 1780 MIN 18 AC-FT 137400
WTR YR 1969 TOTAL 224335 MEAN 615 MAX 8560 MIN 18 AC-FT 445000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	57	21	420	1130	1010	494	387	301	78	80	80
2	74	40	21	499	1060	955	540	334	334	78	80	80
3	74	50	21	508	907	988	576	345	342	78	80	80
4	75	63	21	471	949	955	507	348	320	78	80	80
5	75	128	22	439	890	736	451	328	301	76	81	80
6	74	309	21	425	742	863	398	362	310	74	81	80
7	75	205	21	395	809	813	479	345	328	71	80	83
8	75	221	20	436	845	1110	390	394	324	74	80	80
9	75	234	21	580	691	1450	415	394	401	78	80	74
10	77	88	22	1190	693	1500	491	373	345	78	81	76
11	77	83	23	968	721	1380	307	298	348	78	81	78
12	77	75	23	746	895	1390	295	412	331	80	81	78
13	78	161	23	1380	1030	1360	366	401	235	83	81	78
14	98	151	23	3490	1120	1350	415	370	155	81	81	78
15	280	165	23	2590	940	1320	408	310	143	80	83	78
16	523	72	24	4450	748	1270	451	384	178	80	81	78
17	435	80	24	4160	1430	1210	359	359	152	80	78	78
18	353	154	23	2670	1100	1210	370	370	97	81	78	78
19	304	121	36	2000	1050	1140	324	320	80	80	78	78
20	333	124	264	2580	954	1140	352	370	80	74	78	78
21	292	105	1630	7210	832	1040	408	387	80	74	78	80
22	276	121	1210	6660	742	992	412	387	81	74	78	78
23	330	109	930	3210	830	1010	366	348	81	74	78	78
24	298	124	3820	3700	746	962	376	352	81	76	78	78
25	335	87	2030	2670	804	891	380	310	81	76	80	78
26	319	57	1210	1970	803	631	387	380	81	78	81	80
27	324	41	772	3300	624	680	373	390	81	78	78	83
28	146	32	731	2300	785	488	356	338	81	78	76	85
29	96	22	574	1770	---	656	345	338	80	78	78	78
30	80	22	559	1500	---	692	348	348	80	78	78	78
31	78	---	573	1290	---	549	---	342	---	78	80	---
TOTAL	5880	3301	14736	65977	24870	31741	12139	11124	5912	2402	2466	2369
MEAN	190	110	475	2128	888	1024	405	359	197	77.5	79.5	79.0
MAX	523	309	3820	7210	1430	1500	576	412	401	83	83	85
MIN	74	22	20	395	624	488	295	298	80	71	76	74
AC-FT	11660	6550	29230	130900	49330	62960	24080	22060	11730	4760	4890	4700

CAL YR 1969 TOTAL 239859 MEAN 657 MAX 8560 MIN 20 AC-FT 475800
WTR YR 1970 TOTAL 182917 MEAN 501 MAX 7210 MIN 20 AC-FT 362800

11423000 BEAR RIVER NEAR AUBURN, CALIF.

LOCATION.--Lat 39°01'00", long 121°06'21", in SW¼SE¼ sec.32, T.14 N., R.8 E., Nevada County, on right bank 2,000 ft downstream from bridge on State Highway 49, 2.6 miles upstream from Wolf Creek, and 8.0 miles north of Auburn.

DRAINAGE AREA.--140 sq mi.

PERIOD OF RECORD.--December 1940 to September 1967 (discontinued). Reports of California Department of Water Resources contain gage heights (high-water periods only) for 1922, 1925-28, 1929-33.

GAGE.--Water-stage recorder. Altitude of gage is 1,230 ft (from topographic map). Prior to June 28, 1961, at site 2,200 ft upstream at different datums. June 28 to Nov. 21, 1964, nonrecording gage at site 1,900 ft upstream at different datum. Nov. 22, 1961, to Mar. 31, 1964, at site 2,200 ft upstream at different datum.

AVERAGE DISHCARGE.--26 years (1941-67), 284 cfs (205,600 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-67 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 6, 1966	2,060	7.25	Nov. 11, 1965	2.9
1967	Jan. 21, 1967	10,200	16.60	Nov. 9, 1966	6.0

Period of record: Maximum discharge, 19,700 cfs Dec. 22, 1955 (gage height, 16.56 ft, site and datum then in use), from rating curve extended above 7,400 cfs on basis of computation of flow over dam for the flood of Jan. 31, 1963; minimum, 0.1 cfs Nov. 9, 10, 1953.

REMARKS.--Records good. Natural flow of stream affected by inflow from Yuba River and American River basins. Flow regulated by Lake Combie (usable capacity, 7,840 acre-ft) and Rollins Reservoir (see station 11421800) since December 1964. Several diversions upstream for power development and irrigation. Water-quality records for the water years 1966-67 are published in reports of the Geological Survey.

REVISIONS (WATER YEARS).--WSP 981: Drainage area. WSP 1215: 1943(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.6	5.4	4.3	533	437	374	627	301	9.8	7.3	7.1	7.3
2	8.9	5.2	3.8	554	374	384	578	345	9.6	6.2	7.1	7.3
3	8.9	5.1	8.2	462	269	412	507	239	11	6.8	7.3	7.9
4	8.9	4.9	12	550	374	466	594	110	10	7.5	7.3	8.2
5	9.1	4.1	15	1630	300	499	473	104	10	9.3	7.3	8.6
6	9.1	3.6	13	1760	990	433	582	518	11	9.3	7.3	8.9
7	9.1	3.8	10	1030	925	440	526	161	11	9.8	7.7	9.3
8	8.4	5.3	10	788	649	488	518	19	9.1	9.8	8.2	7.5
9	8.4	3.6	10	769	455	510	415	18	7.9	9.3	8.4	7.7
10	8.2	3.3	10	534	358	697	566	16	6.4	9.3	8.4	8.2
11	8.2	2.9	9.8	239	187	756	684	39	6.4	9.6	8.6	8.4
12	7.9	3.1	12	388	97	514	760	237	6.6	9.3	10	7.5
13	7.7	4.3	10	301	55	476	653	258	7.1	8.9	10	6.6
14	7.7	11	9.8	304	67	503	590	244	9.1	9.1	10	7.3
15	8.6	5.7	9.3	422	202	488	582	249	8.6	8.6	10	7.3
16	7.7	4.9	8.9	219	323	518	538	249	7.9	6.2	9.6	7.7
17	7.1	11	8.4	195	430	526	440	212	5.5	7.5	7.3	7.9
18	7.3	16	8.4	242	458	582	574	247	6.0	7.9	7.7	8.6
19	7.5	5.5	8.2	422	415	666	611	152	6.0	11	7.9	8.9
20	7.5	3.6	7.9	244	339	666	448	395	6.4	12	7.9	9.3
21	7.3	2.9	8.6	168	307	615	314	320	6.4	12	8.2	9.3
22	7.1	7.9	8.2	189	295	841	97	307	6.6	11	8.6	9.1
23	6.8	62	8.2	224	304	619	101	304	24	11	11	9.3
24	6.8	144	11	209	444	598	99	489	6.6	11	9.3	9.1
25	6.4	174	32	116	606	578	206	554	3.8	11	7.5	9.3
26	6.3	166	14	102	371	546	301	455	4.3	8.4	7.9	9.6
27	6.1	158	14	139	274	514	292	350	4.7	7.3	8.6	9.8
28	6.0	149	50	214	368	534	345	56	6.4	5.1	8.4	9.8
29	5.8	86	42	204	---	491	316	16	6.8	6.2	7.5	9.8
30	5.7	29	52	751	---	466	266	13	6.2	6.4	6.0	10
31	5.5	---	47	522	---	426	---	11	---	7.1	6.8	---
TOTAL	234.6	1091.1	476.0	14424	10673	16626	13603	6988	241.2	271.2	254.9	255.5
MEAN	7.57	36.4	15.4	465	381	536	453	225	8.04	8.75	8.22	8.52
MAX	9.1	174	52	1760	990	841	760	554	24	12	11	10
MIN	5.5	2.9	3.8	102	55	374	97	11	3.8	5.1	6.0	6.6
AC-FT	465	2160	944	28610	21170	32980	26980	13860	478	538	506	507

CAL YR 1965 TOTAL 111404.1 MEAN 305 MAX 7250 MIN 2.9 AC-FT 221000
WTR YR 1966 TOTAL 65138.5 MEAN 178 MAX 1760 MIN 2.9 AC-FT 129200

11423000 BEAR RIVER NEAR AUBURN, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	10	604	30	2800	715	1230	920	550	275	248	100
2	11	10	1700	30	1880	720	1050	905	558	331	235	102
3	11	10	2130	30	1260	715	980	900	526	313	230	102
4	11	10	1030	30	1120	622	980	905	490	272	230	102
5	11	12	1900	30	1020	343	1100	880	510	262	224	108
6	11	20	2440	30	885	310	1520	875	590	240	220	115
7	11	18	1810	30	653	301	2090	905	530	224	218	115
8	11	7.2	1240	30	442	222	1650	1000	470	280	226	100
9	11	6.0	925	30	442	110	1260	1050	435	270	235	99
10	11	12	900	29	376	94	1220	1410	414	224	238	100
11	11	11	780	29	328	169	1420	1310	394	301	230	126
12	10	11	566	30	334	426	1230	1180	400	250	230	181
13	10	11	558	84	295	765	1090	1010	522	228	230	203
14	10	13	608	275	410	622	1110	925	518	205	228	205
15	10	18	554	286	542	463	1120	965	370	245	201	196
16	11	30	494	286	574	4090	1040	905	337	252	155	122
17	10	17	482	301	570	4220	955	945	388	242	115	76
18	10	12	510	278	518	1500	1510	915	376	265	106	69
19	10	23	446	222	470	950	1410	865	379	218	106	66
20	10	75	432	204	860	805	1250	835	352	255	134	60
21	10	58	432	4140	920	346	1170	815	325	224	212	59
22	10	484	418	5320	805	272	1170	830	376	260	199	60
23	11	364	212	1420	915	334	1250	805	278	230	181	62
24	10	197	76	1340	960	376	1460	790	272	224	166	63
25	10	129	54	1420	780	442	1310	658	278	248	152	63
26	10	102	28	1220	608	265	1220	538	334	252	132	68
27	10	107	30	1560	570	148	1250	482	367	232	110	112
28	10	100	30	1570	653	125	1160	498	307	220	100	178
29	10	581	31	4220	---	86	1000	648	298	216	69	166
30	10	755	30	3460	---	112	1000	463	316	272	83	185
31	10	---	30	4200	---	863	---	534	---	235	94	---
TOTAL	322	3213.2	21480	32164	21990	21531	37205	26666	12260	7765	5537	3363
MEAN	10.4	107	693	1038	785	695	1240	860	409	250	179	112
MAX	11	755	2440	5320	2800	4220	2090	1410	590	331	248	205
MIN	10	6.0	28	29	295	86	955	463	272	205	69	59
AC-FT	639	6370	42610	63800	43620	42710	73800	52890	24320	15400	10980	6670

CAL YR 1966 TOTAL 88352.0 MEAN 242 MAX 2440 MIN 3.8 AC-FT 175200
WTR YR 1967 TOTAL 193496.2 MEAN 530 MAX 5320 MIN 6.0 AC-FT 383800

11423700 NEW CAMP FAR WEST RESERVOIR NEAR WHEATLAND, CALIF.

LOCATION.--Lat 39°03'01", long 121°18'53", in NE¼SW¼ sec.21, T.14 N., R.6 E., on Yuba-Placer County line, in center of New Camp Far West Dam on Bear River, 6.4 miles east of Wheatland and 11.8 miles northeast of Sheridan.

DRAINAGE AREA.- 283 sq mi.

PERIOD OF RECORD.--October 1966 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by South Sutter Water District).

EXTREMES.--Maximums and minimums (contents in acre-feet, elevation in feet) for the water years 1967-70 are contained in the following table:

	Maximum			Minimum		
Wtr yr	Date	Contents	Elevation	Date	Contents	Elevation
1967	Jan. 21, 1967	116,900	305.74	Oct. 31 to Nov. 5, 1966	11,500	214.03
1968	Feb. 20, 1968	109,800	302.5	Sept.30, 1968	2,700	178.2
1969	Jan. 20, 1969	118,900	306.7	Oct. 11, 1968	2,200	175.0
1970	Jan. 21, 1970	120,200	307.3	Sept.30, 1970	39,100	255.0

Period of record: Maximum contents, 120,200 acre-ft Jan. 21, 1970 (elevation, 307.3 ft); minimum, 2,200 acre-ft Oct. 11, 1968 (elevation, 175.0 ft), but may have been lower during period of no record Oct. 12-16, 1968.

REMARKS.--Reservoir is formed by an earthfill dam. Storage began Sept. 30, 1963. Usable capacity, 139,600 acre-ft between elevations 175.0 (bottom of lowest river outlet) and 316.3 ft (maximum spillway design). Dead storage, 2,200 acre-ft. See schematic diagram of Bear River basin elsewhere in this report. Records, including extremes, represent total contents.

COOPERATION.--Records furnished by California Department of Water Resources and reviewed by Geological Survey.

Capacity table, water years 1967-70 (elevation, in feet, and contents, in acre-feet)

170	1,400	210	9,800	250	34,200	290	85,600
180	3,000	220	14,000	260	44,000	300	104,400
190	4,800	230	19,400	270	55,500	320	151,000
200	7,000	240	25,800	280	69,500		

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12400	11500	38500	104500	109700	106300	107600	106800	105300	103100	87700	72100
2	12400	11500	41100	104500	108500	106300	107300	106800	105300	102800	87100	71600
3	12300	11500	56600	104500	107800	106300	107000	106700	105200	102600	86500	71000
4	12200	11500	60700	104500	107300	106200	107000	106700	105000	102200	86000	70500
5	12200	11500	69200	104500	107100	105800	107100	106700	105000	101800	85400	69900
6	12200	11900	79300	104600	106900	105700	109100	106700	105200	101400	84800	69500
7	12200	12400	84700	104600	106600	105700	109000	106600	105400	100800	84300	69100
8	12200	12400	88500	104600	106300	105600	108200	106700	105500	100400	84000	68700
9	12100	12500	91200	104400	106100	105300	107600	106800	105400	99900	83700	68400
10	12000	12500	93800	103900	106000	105200	107800	107200	105300	99300	83200	68100
11	11900	12600	95900	103800	105900	105600	108100	107100	105300	98900	82900	67700
12	11900	12700	97500	103500	105900	106800	107700	106900	105300	98500	82500	67600
13	11900	12700	99000	103100	105800	107600	107300	106400	105500	98000	82200	67600
14	11900	12800	100500	103100	105900	107200	107200	106000	105500	97400	81800	67700
15	11800	13200	102000	103300	106100	106800	107300	105900	105300	96900	81500	67800
16	11800	14500	103200	103500	106100	113100	107100	105900	105200	96300	81000	67800
17	11800	14800	104400	104200	106200	110400	107400	105800	105200	95900	80400	67600
18	11800	15000	105300	104800	106100	108200	108100	106100	105100	95500	79900	67500
19	11800	15400	105500	105200	106000	107200	108100	106200	105100	94800	79300	67400
20	11700	19500	105500	105900	106500	106900	107700	106200	105100	94300	78700	67400
21	11700	22500	105600	116900	106600	106400	107600	106100	105000	93800	78300	67400
22	11700	24800	105500	111400	106500	106000	107400	106000	105100	93300	77900	67300
23	11700	26100	105300	108200	106600	106100	107700	106000	104800	92700	77400	67300
24	11600	27000	105000	108500	106700	106100	108000	106000	104600	92100	76900	67200
25	11600	27600	104800	108200	106600	106000	107800	105900	104000	91600	76400	67200
26	11600	28100	104700	108300	106300	105900	107400	105700	104100	91200	75900	67200
27	11600	28500	104600	108400	106100	105600	107600	105600	104000	90500	75300	67300
28	11600	29200	104600	109600	106100	105500	107300	105500	103800	89900	74700	67400
29	11600	33000	104500	112200	---	105500	107100	105700	103500	89400	74000	67700
30	11600	35800	104500	111200	---	105500	106900	105600	103400	88800	73400	67900
31	11500	---	104500	111900	---	108200	---	105300	---	88300	72700	---
MAX	12400	35800	105600	116900	109700	113100	109100	107200	105500	103100	87700	72100
MIN	11500	11500	38500	103100	105800	105200	106900	105300	103400	88300	72700	67200
(†)	214.14	251.58	300.07	303.45	300.82	301.76	301.16	300.39	299.43	291.43	281.98	278.85
(‡)	-900	+24300	+68700	+7400	-5800	+2100	-1300	-1600	-1900	-15100	-15600	-4800

WTR YR 1967 MAX 116900 MIN 11500 ‡ +55500

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11423700 NEW CAMP FAR WEST RESERVOIR NEAR WHEATLAND, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68100	69700	74800	83700	100500	106400	105900	95600	76600	50400	21800	6000
2	68700	69700	75000	83800	101800	106400	106100	94400	75900	49500	21100	5800
3	69700	69500	75500	83800	103500	106100	106100	93500	75100	48600	20400	5500
4	70100	69500	76400	84000	104400	106100	106100	92600	74300	47600	19700	5200
5	70000	69500	77900	84000	105100	106100	106100	91400	73500	46500	19000	4900
6	70100	69500	78200	84200	105300	106100	106100	90500	72900	45500	18300	4700
7	70100	69500	79200	84200	105300	105900	105900	89700	72200	44500	17600	4500
8	70100	69500	79600	84300	105900	105900	105900	88800	71600	43400	16900	4200
9	70100	69500	80000	84500	106100	106400	105900	88000	70900	42400	16200	4000
10	70100	69700	80100	85400	106400	106400	105500	87100	70100	41600	15500	3800
11	70100	69800	80400	85800	106400	106400	105300	86200	69400	40600	14700	3600
12	70100	69800	80600	86200	105900	106400	105300	85400	68700	39700	13900	3700
13	70100	69800	80800	86400	105500	106800	105300	85000	67800	38800	13300	3700
14	70100	70000	80900	86500	105300	107400	105300	84500	67100	37900	12800	3700
15	70100	70300	81100	89700	105100	107400	105300	84000	66400	36900	12300	3800
16	70100	70500	81300	90500	105100	108100	105100	83700	65600	36000	11800	3800
17	70100	70600	81400	91100	106400	108100	105300	83200	64700	34900	11300	3800
18	70100	70900	81600	91400	106100	107700	105100	82900	63900	33900	10800	3700
19	70100	71400	81700	91600	107900	107400	104800	82400	62800	33000	10300	3600
20	70000	71600	81900	91800	109800	107000	104400	82100	61800	32200	9900	3500
21	70000	71800	82100	92000	109600	107000	103800	81600	60800	31300	9700	3500
22	70000	72100	82200	92200	108500	106800	103500	81300	59700	30400	9400	3400
23	69800	72200	82400	92400	108300	106800	102900	80900	58600	29600	9200	3400
24	69800	72400	82500	92600	107900	106800	102100	80400	57500	28700	8800	3300
25	69800	72600	82700	92700	107400	106600	101200	80100	56300	27700	8600	3300
26	69800	72700	82900	92900	107000	106100	100300	79800	55500	26700	8100	3200
27	69800	72900	83000	93100	106800	105900	99300	79500	54500	25700	7400	3100
28	69800	73200	83200	93300	106600	105700	98400	79000	53400	24900	6800	3000
29	69700	73500	83300	93500	106400	105700	97400	78400	52400	24100	6600	2800
30	69700	74300	83500	98400	---	105700	96500	77900	51400	23400	6300	2700
31	69700	---	83500	99700	---	105700	---	77200	---	22600	6100	---
MAX	70100	74300	83500	99700	109800	108100	106100	95600	76600	50400	21800	6000
MIN	68100	69500	74800	83700	100500	105700	96500	77200	51400	22600	6100	2700
(†)	280.1	283.0	288.7	297.5	300.9	300.6	295.8	284.8	266.4	235.0	195.9	178.2
(‡)	+1800	+4600	+9200	+16200	+6700	-700	-9200	-19300	-25800	-28800	-16500	-3400

CAL YR 1966 MAX 116900 MIN 67200 ‡ -21000
WTR YR 1968 MAX 109800 MIN 2700 ‡ -65200

† ELEVATION, IN FEET, AT END OF MONTH.
† CHANGE IN CONTENTS, IN ACRE-FEET.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2600	4500	15900	48400	107900	110300	107000	106800	105900	104800	92700	84000
2	2600	4500	16300	49100	107900	108500	107000	106800	105900	104400	92600	83700
3	2500	5600	16500	50000	107700	108100	107200	106800	105900	104000	92400	83500
4	2500	6000	16800	50300	107400	108100	107200	106800	105900	103800	92200	83000
5	2400	6200	17000	50700	109000	107900	108500	106600	105900	103300	91800	82400
6	2400	6400	17200	50900	109400	107700	108500	106600	105900	102900	91200	82100
7	2400	6500	17300	51900	108300	107700	107900	106100	105900	102300	91100	81600
8	2300	6600	17500	52700	107900	107400	107700	106400	105900	101000	90900	81100
9	2300	6700	17700	53300	108300	107400	107400	106400	105900	101400	90500	80600
10	2300	6800	18100	53700	107900	107200	107200	106400	105900	101200	90100	80300
11	2200	6900	19600	55600	109200	106800	107200	106400	105900	100800	89700	79600
12	---	7500	20100	59800	109600	106600	107200	106400	105900	100600	89500	79300
13	---	7700	20600	75600	108500	106400	107200	106400	105900	100100	89200	78800
14	---	7900	22600	88000	109000	106100	107000	106400	105900	99700	89000	78500
15	---	8500	24500	92400	111500	106400	107000	106400	105900	99300	89000	78200
16	---	8900	26300	95800	110000	106600	106800	106100	105900	98900	88600	77900
17	3500	9400	27100	98000	109000	107000	106800	106100	105900	98600	88200	77600
18	3600	10000	27600	101000	109000	107200	106800	106100	105900	98400	87900	77200
19	3700	10600	28100	112000	108500	107000	106800	106100	105900	97800	87700	76900
20	3800	11100	28500	118900	108100	107000	106800	106100	105900	97400	87300	76600
21	3900	11500	28800	117200	107900	107200	106800	106100	105900	97100	87100	76300
22	3900	12000	29000	112200	107700	107000	106800	106100	105900	96900	86700	76100
23	4000	12700	29200	109800	108300	106800	107200	106100	105900	96500	86400	75900
24	4000	13400	30800	109800	109800	107000	107200	106100	105900	96100	86200	75600
25	4100	14000	39400	113900	110900	107000	107000	106100	105900	95800	87500	75500
26	4200	14400	40700	113500	109600	106800	106800	105900	105700	95200	85600	75300
27	4200	14800	42300	110300	108500	106800	106800	105900	105700	94600	85300	75000
28	4200	15000	43900	109400	111300	106800	106600	105900	105500	94200	85000	74800
29	4300	15200	45500	109000	---	106800	106800	105900	105300	93900	84800	74700
30	4400	15500	46800	108500	---	107000	106800	105900	105300	93500	84600	74500
31	4400	---	47600	108100	---	107000	---	105900	---	93300	84300	---
MAX		15500	47600	118900	111500	110300	108500	106800	105900	104800	92700	84000
MIN		4500	15900	48400	107400	106100	106600	105900	105300	93300	84300	74500
(†)	187.9	222.8	263.1	301.7	303.2	301.2	301.1	300.7	300.4	294.1	289.2	283.1
(‡)	+1700	+11100	+32100	+60500	+3200	-4300	-200	-900	-600	-12000	-9000	-9800

CAL YR 1968 MAX 109800 MIN ‡ -35900
WTR YR 1969 MAX 118900 MIN ‡ +71800

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11423700 NEW CAMP FAR WEST RESERVOIR NEAR WHEATLAND, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74500	83000	86400	105900	107200	108500	105900	103300	105300	93100	69800	47900
2	74200	83200	86200	105700	107000	107700	105700	103300	104800	92600	69100	47300
3	74000	83200	86000	105900	106800	107000	105700	103300	104600	91800	68200	46800
4	73700	83300	86200	105900	106600	107200	105500	103300	104400	91200	67500	46200
5	73500	83300	86000	105700	106600	106800	105500	103100	104000	90500	66800	45600
6	73500	83500	86000	105700	106600	106800	105500	102900	103600	89900	66100	45000
7	73500	83500	85800	105700	106400	106800	105500	102900	103500	89200	65400	44500
8	73400	83700	85800	105700	106400	108100	105500	102900	103500	88200	64700	43900
9	73400	83800	85800	106400	106400	107900	105500	102900	103300	87500	63900	43500
10	73400	84200	86000	107400	106100	107900	105500	103100	102900	86700	63200	43100
11	73200	84200	86000	107000	106100	107700	105300	103300	103100	85800	62500	42700
12	73000	83800	86200	106800	106600	107400	105300	103500	103100	85000	61700	42300
13	73000	83700	86200	107900	108300	107200	105300	103600	103100	84300	61000	42000
14	73000	83800	86200	112600	107900	107200	105300	104200	102900	83500	60300	41700
15	73400	84300	86200	109600	107200	107200	105500	104600	102500	82900	59400	41500
16	74300	84500	86000	112600	107700	107000	105500	104800	102100	82200	58700	41200
17	75100	84800	86000	111100	108500	107000	105500	105100	101800	81400	57900	40900
18	76100	85000	85800	109400	107700	107000	105500	105100	101400	80800	57200	40700
19	76900	85300	86400	109000	107200	107000	105300	105100	100800	80000	56300	40400
20	77700	85400	88400	109600	107000	107000	105300	105100	100300	79300	55500	40200
21	78500	85600	94800	120200	106800	107000	105300	105300	99900	78700	54800	39900
22	79200	86000	98400	113300	106600	106800	104800	105300	99100	77900	54100	39700
23	79500	86200	102500	110300	106600	106800	104400	105300	98600	77200	53400	39500
24	80100	86400	112200	110700	106400	106600	104400	105100	98000	76400	52900	39500
25	80800	86500	109400	109400	106400	106600	104200	105300	97300	75600	52300	39400
26	81400	86500	107700	108500	106400	106400	103800	105500	96500	75000	51600	39300
27	82100	86500	106800	110500	106100	106100	103500	105500	95800	74200	50900	39300
28	82500	86500	106600	109200	106400	106100	103500	105500	95200	73400	50300	39200
29	82900	86500	106400	108300	---	105900	103300	105500	94400	72600	49800	39200
30	82900	86400	106100	107900	---	106100	103300	105300	93900	71600	49200	39100
31	83000	---	105900	107400	---	106100	---	105300	---	70800	48500	---
MAX	83000	86500	112200	120200	108500	108500	105900	105500	105300	93100	69800	47900
MIN	73000	83000	85800	105700	106100	105900	103300	102900	93900	70800	48500	39100
(†)	288.36	290.41	300.73	301.39	300.92	300.80	299.40	300.40	294.35	280.78	263.90	254.99
(‡)	+8500	+3400	+19500	+1500	-1000	-300	-2800	+2000	-11400	-23100	-22300	-9400

CAL YR 1969 MAX 118900 MIN 73000 ‡ +58300
WTR YR 1970 MAX 120200 MIN 39100 ‡ -35400

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11424000 BEAR RIVER NEAR WHEATLAND, CALIF.

LOCATION.--Lat 39°00'01", long 121°24'21", in SE¼SW¼ sec.3, T.13 N., R.5 E., Yuba County, on right bank 100 ft downstream from bridge on U.S. Highway 99E, 1 mile southeast of Wheatland, and 6.5 miles downstream from Rock Creek.

DRAINAGE AREA.--292 sq mi.

PERIOD OF RECORD.--October 1928 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 71.92 ft above mean sea level. Prior to July 17, 1929, nonrecording gage at about present site at datum 9.58 ft higher. July 17, 1929, to Oct. 22, 1943, water-stage recorder at several sites within 300 ft of present site at datum 9.58 ft higher. Oct. 23, 1943, to June 23, 1964, water-stage recorder at site 100 ft upstream at datum 7.00 ft higher and June 23, 1964, to May 28, 1970, at present site at datum 5.00 ft higher.

AVERAGE DISCHARGE.--41 years (1929-70), 438 cfs (317,300 acre-ft per year), adjusted for change in storage and diversions from New Camp Far West Reservoir since 1966.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Mar. 11, 1966	870	3.75	Nov. 20, 1965	5.2
1967	Jan. 22, 1967	16,500	12.21	Oct. 22-24, 1966	3.8
1968	Feb. 20, 1968	5,300	7.23	Sept.27, 1968	1.4
1969	Jan. 20, 1969	20,000	a13.3	Nov. 14, 1968	7.1
1970	Jan. 22, 1970	21,900	13.96	Nov. 3, 1969	4.6

a From floodmarks.

Period of record: Maximum discharge, 33,000 cfs Dec. 22, 1955 (gage height, 19.30 ft, site and datum then in use); maximum gage height, 20.83 ft Nov. 21, 1950, site and datum then in use; no flow at times.

REMARKS.--Records good. Natural flow of stream affected by inflow from Yuba River and American River basins. Flow regulated by Lake Combie (usable capacity, 7,840 acre-ft), Rollins Reservoir since December 1964 (see station 11421800), and by New Camp Far West Reservoir since October 1963 (see station 11423700). Many diversions for irrigation and power. See schematic diagram of Bear River basin elsewhere in this report. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

REVISIONS.--WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	7.7	11	24	368	490	445	25	20	16	16	10
2	16	7.7	11	22	356	485	520	24	22	14	15	12
3	14	7.7	11	22	352	470	510	24	21	12	15	11
4	14	7.7	12	22	356	475	460	21	21	14	16	10
5	14	7.2	12	45	356	500	480	26	23	15	16	11
6	13	7.0	12	101	364	515	440	25	30	13	16	10
7	14	7.2	12	344	356	525	430	24	26	8.5	18	10
8	14	34	13	348	360	540	430	22	25	5.6	16	10
9	10	13	12	348	445	550	405	23	24	9.9	12	10
10	11	11	13	348	515	678	435	29	22	12	12	10
11	12	11	18	348	460	828	535	26	24	13	15	10
12	17	40	18	348	392	804	678	28	24	13	14	11
13	13	32	14	348	348	720	678	27	22	14	13	11
14	8.8	11	13	348	344	672	612	26	22	21	12	13
15	10	26	8.1	348	344	620	535	29	20	13	13	13
16	9.4	30	8.6	348	344	630	515	26	18	13	13	10
17	9.4	10	9.1	348	344	640	450	25	19	14	14	9.2
18	9.4	11	10	348	336	680	372	27	20	14	13	8.8
19	8.8	5.6	10	348	352	740	188	28	20	14	14	9.6
20	7.7	5.2	10	348	380	780	119	29	22	15	16	8.5
21	8.1	5.4	14	344	392	800	168	24	23	14	14	8.8
22	8.1	5.6	21	340	380	770	65	27	25	15	16	10
23	8.1	6.4	21	344	376	720	37	32	23	15	16	11
24	8.1	7.2	24	344	276	680	21	30	22	14	16	11
25	7.7	6.8	25	344	569	650	21	29	22	16	16	13
26	7.7	6.8	23	344	762	620	20	22	26	16	16	14
27	7.7	6.8	22	340	585	580	22	20	26	16	12	12
28	7.7	8.1	35	340	505	540	25	20	25	13	11	11
29	7.7	11	39	348	---	510	28	20	23	14	11	9.6
30	7.7	11	37	384	---	470	26	18	17	16	11	7.5
31	8.1	---	30	266	---	430	---	21	---	15	11	---
TOTAL	328.2	367.1	528.8	8842	11317	19112	9670	777	677	428.0	439	316.0
MEAN	10.6	12.2	17.1	285	404	617	322	25.1	22.6	13.8	14.2	10.5
MAX	17	40	39	384	762	828	678	32	30	21	18	14
MIN	7.7	5.2	8.1	22	276	430	20	18	17	5.6	11	7.5
AC-FT	651	728	1050	17540	22450	37910	19180	1540	1340	849	871	627
(†)	-100	+10000	+12900	+31200	+11300	0	-2700	-5000	-23300	-27000	-26200	-8000
(‡)	1851	153	0	0	0	397	12148	19730	22640	25740	23210	7386
MEAN††	37.4	183	227	793	608	623	481	265	11.4	-6.68	-34.5	.22
AC-FT††	2300	10880	13950	48740	33750	38310	28630	16270	680	-411	-2120	13

CAL YR 1965 TOTAL 151894.1 MEAN 416 MAX 11700 MIN 5.2 AC-FT 301300 MEAN†† AC-FT††
WTR YR 1966 TOTAL 52802.1 MEAN 145 MAX 828 MIN 5.2 AC-FT 104700 MEAN†† 264 AC-FT†† 191000

† CHANGE IN CONTENTS, IN ACRE-FEET, IN NEW CAMP FAR WEST RESERVOIR.

‡ DIVERSION, IN ACRE-FEET, TO CAMP FAR WEST NORTH AND SOUTH CANALS, AND SOUTH SUTTER CONVEYANCE CANAL FURNISHED BY SOUTH SUTTER WATER DISTRICT.

†† ADJUSTED FOR DIVERSIONS FROM CHANGE IN CONTENTS IN NEW CAMP FAR WEST RESERVOIR.

11424000 BEAR RIVER NEAR WHEATLAND, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	5.9	65	82	5600	704	1610	1130	368	34	69	17
2	4.9	5.1	94	81	3670	728	1600	1040	368	37	60	18
3	5.3	5.1	70	80	2450	746	1370	981	381	37	56	19
4	5.9	5.9	47	80	1600	728	1250	939	337	34	71	18
5	5.9	4.9	89	74	1370	589	1300	918	302	32	79	15
6	5.1	29	85	70	1200	435	1890	925	333	33	79	16
7	5.1	56	54	78	1020	381	3540	974	333	44	83	16
8	5.3	41	45	74	782	354	2780	981	354	59	69	16
9	5.3	35	40	129	672	288	1870	1050	333	62	13	15
10	4.9	9.2	39	278	616	217	1610	1240	288	60	18	12
11	5.6	11	39	271	540	252	2160	1450	266	52	18	11
12	5.6	20	38	271	512	464	1890	1300	249	49	18	9.4
13	5.1	32	32	271	480	1300	1580	1130	288	48	20	11
14	5.6	35	31	271	460	1540	1500	939	381	44	18	9.9
15	4.9	39	31	271	562	1130	1590	818	350	47	13	9.4
16	5.3	33	31	230	638	3490	1470	780	252	49	11	12
17	5.1	28	31	29	672	7030	1300	680	202	49	13	10
18	4.9	25	170	31	655	3670	2100	270	202	48	13	11
19	5.3	30	480	138	600	1780	2100	430	160	49	18	11
20	4.9	54	505	264	672	1110	1990	430	132	48	22	9.4
21	4.0	37	500	3910	848	848	1730	410	93	52	17	9.4
22	3.8	36	520	12200	878	611	1620	410	60	59	13	8.9
23	3.8	29	445	4320	890	584	1640	390	48	77	10	9.4
24	3.8	27	316	2340	918	655	2010	358	44	73	11	9.4
25	5.3	25	208	2610	974	600	1920	325	37	62	15	9.4
26	4.7	24	152	2010	806	584	1660	235	31	62	17	8.9
27	5.3	26	114	2670	694	435	1660	155	31	58	17	8.9
28	5.9	40	98	3130	660	341	1630	115	32	60	13	8.9
29	5.1	54	90	6090	---	325	1340	108	50	69	13	8.5
30	5.6	33	94	6320	---	270	1210	198	36	83	13	8.5
31	5.1	---	84	6730	---	604	---	257	---	75	13	---
TOTAL	157.3	835.1	4637	55403	31439	32793	52920	21366	6341	1645	913	356.3
MEAN	5.07	27.8	150	1787	1123	1058	1764	689	211	53.1	29.5	11.9
MAX	5.9	56	520	12200	5600	7030	3540	1450	381	83	83	19
MIN	3.8	4.9	31	29	460	217	1210	108	31	32	10	8.5
AC-FT	312	1660	9200	109900	62360	65040	105000	42380	12580	3260	1810	707
(†)	2210	398	0	0	0	0	0	16790	17250	27780	24750	11660
MEAN‡	19.8	443	1267	1904	1018	1092	1743	936	469	259	178	127
AC-FT‡	1220	26360	77900	117100	56560	67140	103700	57570	27930	15940	10960	7570

CAL YR 2966 TOTAL 57207.4 MEAN 157 MAX 828 MIN 3.8 AC-FT 113500 MEAN‡ 372 AC-FT‡ 269300
WTR YR 1967 TOTAL 208805.7 MEAN 572 MAX 12200 MIN 3.8 AC-FT 414200 MEAN‡ 787 AC-FT‡ 570000

† DIVERSION, IN ACRE-FEET, TO CAMP FAR WEST NORTH AND SOUTH CANALS, AND SOUTH SUTTER CONVEYANCE CANAL.
‡ ADJUSTED FOR DIVERSIONS FROM CHANGE IN CONTENTS IN NEW CAMP FAR WEST RESERVOIR.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.6	17	29	30	21	840	445	14	16	14	13	7.0
2	9.6	17	28	30	34	804	642	18	15	13	14	7.0
3	31	17	29	30	24	762	720	21	16	12	14	7.0
4	8.2	17	30	30	23	762	684	22	14	11	16	7.8
5	5.4	17	30	30	98	732	618	24	12	12	14	8.2
6	5.0	18	28	30	44	738	624	25	17	9.6	11	8.2
7	5.0	18	31	30	263	684	576	23	26	11	8.6	8.2
8	13	17	29	30	350	672	540	21	18	9.6	7.0	8.6
9	21	17	29	30	642	690	582	21	19	7.4	8.2	9.0
10	21	18	29	38	768	810	630	23	17	8.6	11	10
11	21	19	28	31	792	846	350	24	14	8.6	10	12
12	21	17	28	31	672	834	236	26	14	11	10	10
13	21	12	28	31	415	912	225	32	14	13	9.6	9.6
14	25	20	28	32	314	1320	225	30	13	12	9.6	9.6
15	27	27	29	43	239	1440	180	21	13	12	9.0	9.0
16	28	26	29	33	210	1530	140	21	13	13	8.6	8.6
17	29	38	29	31	410	2020	100	24	12	13	21	8.2
18	29	59	30	29	762	1710	70	25	8.6	12	8.6	7.0
19	28	44	30	18	680	1430	40	24	8.6	9.0	11	6.6
20	20	28	30	15	4470	1280	30	24	9.0	8.2	10	5.4
21	18	21	30	16	4250	1130	25	24	8.6	6.8	8.6	3.5
22	19	26	30	17	3340	1060	25	24	10	8.2	9.6	3.5
23	19	27	30	17	2400	1050	23	23	11	12	8.2	3.5
24	19	27	30	17	2070	990	26	22	9.6	13	7.8	2.3
25	18	27	31	17	1670	978	21	23	8.6	13	7.4	3.8
26	18	28	31	17	1390	798	21	22	8.2	12	7.4	1.5
27	20	28	30	17	1180	558	22	21	7.8	12	7.0	1.4
28	18	28	30	17	1040	474	21	24	10	13	7.0	4.6
29	17	30	30	18	936	425	21	22	12	13	6.2	20
30	18	33	30	83	---	430	17	22	13	13	5.8	24
31	18	---	30	28	---	425	---	21	---	13	6.6	---
TOTAL	578.8	738	913	866	29507	29134	7879	711	388.0	349.0	305.8	235.1
MEAN	18.7	24.6	29.5	27.9	1017	940	263	22.9	12.9	11.3	9.86	7.84
MAX	31	59	31	83	4470	2020	720	32	26	14	21	24
MIN	5.0	12	28	15	21	425	17	14	7.8	6.8	5.8	1.4
AC-FT	1150	1460	1810	1720	58530	57790	15630	1410	770	692	607	466
(†)	2720	1380	0	0	0	0	12750	19740	24220	25570	15290	5310
MEAN‡	92.2	125	179	291	1134	928	322	30.1	-13.6	-41.3	-9.82	40.0
AC-FT‡	5670	7440	11010	17920	65230	57090	19180	1850	-810	-2540	-604	2380

CAL YR 1967 TOTAL 205406.1 MEAN 563 MAX 12200 MIN 5.0 AC-FT 407400 MEAN‡ 675 AC-FT‡ 488700
WTR YR 1968 TOTAL 71604.7 MEAN 196 MAX 4470 MIN 1.4 AC-FT 142000 MEAN‡ 253 AC-FT‡ 183800

† DIVERSION, IN ACRE-FEET, TO CAMP FAR WEST NORTH AND SOUTH CANALS, AND SOUTH SUTTER CONVEYANCE CANAL.
‡ ADJUSTED FOR DIVERSIONS FROM CHANGE IN CONTENTS IN NEW CAMP FAR WEST RESERVOIR.

11424000 BEAR RIVER NEAR WHEATLAND, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	14	11	14	1710	5000	1130	525	152	25	18	20
2	28	17	10	14	1580	3450	1150	510	158	19	17	17
3	11	23	10	14	1470	2470	1290	525	133	15	17	18
4	7.8	17	9.6	14	1320	2040	1260	530	112	17	17	19
5	7.7	16	9.6	14	2280	2130	1460	495	96	17	15	17
6	45	16	9.6	15	3500	1570	2340	460	77	18	18	17
7	23	15	9.6	14	2690	1440	1850	512	88	18	18	17
8	28	15	9.6	14	1660	1350	1530	390	103	19	17	16
9	25	14	9.6	13	1660	1200	1380	268	92	19	17	14
10	17	13	11	12	1660	1220	1240	320	103	19	17	12
11	16	16	13	38	1660	1080	1130	375	118	16	16	16
12	24	13	10	51	3400	838	1100	390	133	17	14	16
13	33	8.2	10	154	2660	743	1100	345	133	17	17	15
14	46	7.1	35	59	1960	611	1080	325	126	17	17	15
15	46	9.6	22	24	4150	590	1030	330	135	17	18	14
16	37	8.2	18	16	5120	820	940	315	121	17	19	15
17	9.6	9.6	13	10	3320	940	898	264	101	17	22	17
18	12	11	11	14	2760	1230	844	260	98	17	18	17
19	11	10	11	1730	2340	1190	820	260	75	15	14	17
20	14	10	12	14200	1800	1100	809	270	84	14	13	17
21	14	11	11	16800	1530	1180	765	270	105	15	15	17
22	14	11	11	11700	1320	1180	710	270	86	16	17	17
23	16	11	12	6460	1500	1060	760	270	75	16	17	17
24	14	11	20	4720	2320	994	1010	270	55	18	18	17
25	13	11	54	6810	3910	1060	892	270	19	18	19	17
26	13	11	21	11500	4060	1080	738	270	23	20	20	17
27	14	10	16	6500	2660	964	660	250	34	19	19	16
28	14	10	17	4720	3080	964	600	230	45	19	17	16
29	14	11	17	3550	---	1010	550	210	39	17	18	16
30	14	12	14	2730	---	1050	560	165	33	19	19	16
31	14	---	14	2080	---	1100	---	171	---	18	19	---
TOTAL	621.1	371.7	461.6	94004	69080	42654	31626	10315	2752	545	537	492
MEAN	20.0	12.4	14.9	3032	2467	1376	1054	333	91.7	17.6	17.3	16.4
MAX	46	23	54	16800	5120	5000	2340	530	158	25	22	20
MIN	7.7	7.1	9.6	10	1320	590	550	165	19	14	13	12
AC-FT	1230	737	916	186500	137000	84600	62730	20460	5460	1080	1070	976
(†)	838	0	0	0	0	0	6860	24570	23510	26220	22080	10510
MEAN‡	61.3	199	537	4017	2524	1306	1166	718	477	249	230	28.4
AC-FT‡	3770	11840	33020	247000	140200	80300	69390	44130	28370	15300	14150	1690

CAL YR 1968 TOTAL 70829.3 MEAN 194 MAX 4470 MIN 1.4 AC-FT 140500 MEAN‡ 288 AC-FT‡ 208300
WTR YR 1969 TOTAL 253459.4 MEAN 694 MAX 16800 MIN 7.1 AC-FT 502700 MEAN‡ 951 AC-FT‡ 689200

† DIVERSION, IN ACRE-FEET, TO CAMP FAR WEST NORTH AND SOUTH CANALS, AND SOUTH SUTTER CONVEYANCE CANAL.
‡ ADJUSTED FOR DIVERSIONS FROM CHANGE IN CONTENTS IN NEW CAMP FAR WEST RESERVOIR.
NOTE.--NO GAGE-HEIGHT RECORD JAN. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	7.7	109	710	1690	1440	571	13	24	12	10	13
2	14	6.5	109	616	1450	1960	505	14	19	12	10	13
3	13	4.6	109	606	1300	1410	505	16	17	11	6.6	9.6
4	10	6.0	109	606	1250	1320	549	14	16	11	6.6	12
5	9.6	11	109	585	1160	1340	505	12	18	10	7.2	13
6	10	42	109	550	1110	1120	430	14	17	8.4	7.8	13
7	9.6	293	109	520	1010	1080	360	16	17	11	11	13
8	10	420	109	510	1020	1810	360	17	17	12	13	16
9	11	420	72	644	1010	1840	323	19	17	12	13	11
10	12	274	38	1370	922	1790	323	21	17	11	11	8.4
11	13	76	98	1460	892	1660	343	17	17	11	8.4	7.8
12	12	264	112	1270	946	1520	258	14	16	10	11	9.0
13	12	162	126	1400	1220	1450	318	14	17	12	12	11
14	12	73	126	5580	2230	1400	215	14	13	9.6	14	11
15	28	36	123	6670	1570	1360	130	15	12	12	11	10
16	36	38	123	6630	1290	1330	181	15	10	11	10	10
17	33	38	123	7560	2280	1280	169	15	9.0	15	12	8.4
18	33	36	126	4590	1940	1230	128	26	12	12	11	8.4
19	30	38	130	2650	1500	1180	100	52	13	12	9.6	9.6
20	29	34	301	3390	1320	1160	73	48	11	10	10	9.0
21	29	44	470	10600	1200	1170	42	56	15	10	12	8.4
22	29	40	455	14600	1070	1120	161	75	12	8.4	15	7.8
23	27	40	530	6790	988	1090	120	81	10	6.0	16	7.8
24	27	48	5100	5820	1000	1080	41	67	8.4	6.6	13	8.4
25	24	66	6080	4640	952	1040	13	52	8.4	7.2	13	7.2
26	30	84	2870	3240	940	934	13	30	9.0	6.0	13	6.6
27	27	107	1570	4260	916	766	13	28	11	6.6	14	6.6
28	27	109	1110	4220	850	748	13	44	10	10	13	7.2
29	25	109	946	2940	---	648	13	48	11	9.0	16	9.0
30	10	109	820	2290	---	676	13	39	12	11	15	7.8
31	6.5	---	732	1950	---	706	---	24	---	10	15	---
TOTAL	613.7	3035.8	23053	109267	35026	38658	6788	930	415.8	315.8	360.2	293.0
MEAN	19.8	101	744	3525	1251	1247	226	30.0	13.9	10.2	11.6	9.77
MAX	36	420	6080	14600	2280	1960	571	81	24	15	16	16
MIN	6.5	4.6	38	510	850	648	13	12	8.4	6.0	6.6	6.6
AC-FT	1220	6020	45730	216700	69470	76680	13460	1840	825	626	714	581
(†)	2090	0	0	0	0	105	14220	17990	19740	21300	20500	9990

CAL YR 1969 TOTAL 278707.5 MEAN 764 MAX 16800 MIN 4.6 AC-FT 552800 MEAN‡ 1000 AC-FT‡ 727000
WTR YR 1970 TOTAL 218756.3 MEAN 599 MAX 14600 MIN 4.6 AC-FT 433900 MEAN‡ 696 AC-FT‡ 504400

† DIVERSION, IN ACRE-FEET, TO CAMP FAR WEST NORTH AND SOUTH CANALS AND SOUTH SUTTER CONVEYANCE CANAL.
‡ AJUSTED FOR DIVERSIONS FROM CHANGE IN CONTENTS IN NEW CAMP FAR WEST RESERVOIR.

11424600 WELLMAN CREEK NEAR SMARTVILLE, CALIF.

LOCATION.--Lat 39°11'37", long 121°20'23", in SW¼SE¼ sec.31, T.16 N., R.6 E., Yuba County, on right bank 4 ft upstream from culvert on Smartville-Hammonton Road and 2.3 miles southwest of Smartville.

DRAINAGE AREA.--0.59 sq mi.

PERIOD OF RECORD.--Annual maximum, water years 1960-67. October 1967 to September 1970.

GAGE.--Water-stage recorder with tipping-bucket rain gage, crest-stage gages, and culvert control. Altitude of gage is 495 ft (from topographic map).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	May 9, 1966	70	a10.55	-	-
1967	Jan. 21, 1967	206	14.53	-	-
1968	Feb. 21, 1968	93	13.38	Long periods	0
1969	Jan. 26, 1969	323	15.22	do.	0
1970	Jan. 14, 1970	179	14.46	do.	0

a Tailwater gage.

Period of record: Maximum discharge, 467 cfs Jan. 20, 1964 (gage height, 15.66 ft), from rating curve extended above 40 cfs on basis of computation of flow through culverts and over roadway at gage heights 12.39, 12.65, 13.94, 14.56, and 15.66 ft; no flow for several months in each year.

REMARKS.--Records good. No regulation or diversion above station. Small ditch diverts some flow into basin at gage during heavy storms. Precipitation records are available in files of the district office.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	0	0	.27	.12	.12	.02				
2		0	0	0	7.3	.11	.10	.01				
3		0	.01	0	.66	.09	.09	0				
4		0	.01	0	.27	.09	.10	0				
5		0	.02	0	.19	.09	.09	0				
6		0	0	0	.15	.09	.08	0				
7		0	.07	0	.13	.13	.07	0				
8		0	.05	0	.12	.22	.07	0				
9		0	.04	0	.12	.11	.07	0				
10		0	.04	1.6	.12	.10	.07	0				
11		0	.01	.07	.12	.09	.07	0				
12		0	0	.06	.11	3.4	.08	0				
13		0	0	.05	.16	3.6	.08	.02				
14		0	0	1.7	.12	1.1	.07	.05				
15		0	0	3.2	.12	.27	.07	.03				
16		0	0	.12	.42	5.0	.07	.02				
17		0	0	.06	6.0	.88	.07	.01				
18		0	0	.05	.61	.52	.07	0				
19		0	0	.05	17	.22	.07	0				
20		0	0	.05	10	.19	.07	0				
21		0	0	.05	9.1	.17	.06	0				
22		0	0	.04	.82	.15	.06	0				
23		0	0	.04	.82	.13	.06	0				
24		0	0	.04	.36	.12	.06	0				
25		0	0	.04	.24	.12	.06	0				
26		0	0	.04	.22	.12	.06	0				
27		0	0	.04	.17	.12	.04	0				
28		0	0	.04	.15	.12	.03	0				
29		.02	0	.72	.13	.12	.03	0				
30		.02	0	17	---	.11	.02	0				
31		---	0	.40	---	.11	---	0	---			---
TOTAL	0	.04	.25	25.46	56.00	17.81	2.06	.16	0	0	0	0
MEAN	0	.001	.008	.82	1.93	.57	.069	.005	0	0	0	0
MAX	0	.02	.07	17	17	5.0	.12	.05	0	0	0	0
MIN	0	0	0	0	.11	.09	.02	0	0	0	0	0
AC-FT	0	.08	.5	50	111	35	4.1	.3	0	0	0	0

WTR YR 1968 TOTAL 101.78 MEAN .28 MAX 17 MIN 0 AC-FT 202

11424600 WELLMAN CREEK NEAR SMARTVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	0	.04	.18	3.2	.08	.03				
2		0	0	.04	.16	1.5	.10	.03				
3		0	0	.03	.14	.73	.08	.03				
4		0	0	.03	.12	.41	.08	.02				
5		0	.01	.03	12	.33	.76	.02				
6		0	.02	.03	3.1	.27	.65	.02				
7		0	.01	.03	.41	.24	.14	.01				
8		0	.01	.03	.29	.21	.10	.01				
9		0	0	.04	4.6	.41	.08	.01				
10		0	.92	.02	.54	.31	.08	.01				
11		0	.28	4.5	11	.21	.07	.01				
12		0	.05	5.9	2.9	.18	.07	.01				
13		0	.87	49	.50	.16	.07	.01				
14		.01	4.5	3.2	6.2	.16	.07	.01				
15		0	2.4	.41	20	.16	.07	.01				
16		0	.22	.21	1.6	.16	.06	.01				
17		0	.06	.12	.64	.22	.06	.01				
18		.05	.04	7.7	3.7	.16	.06	.01				
19		.01	.03	27	.88	.14	.05	.01				
20		0	.02	25	.59	.31	.05	.01				
21		0	.01	28	.45	.32	.04	.01				
22		0	.01	2.6	.41	.16	.04	0				
23		0	.16	.64	3.0	.12	.16	0				
24		0	3.8	6.5	11	.10	.06	0				
25		0	3.0	9.9	3.2	.10	.05	0				
26		0	.36	17	1.0	.10	.04	0				
27		0	.10	.59	.76	.10	.04	0				
28		0	.37	.33	9.1	.10	.03	0				
29		0	.21	.22	---	.08	.03	0				
30		.01	.07	1.0	---	.08	.03	0				
31		---	.06	.24	---	.08	---	0	---			---
TOTAL	0	.08	17.59	190.38	98.47	10.81	3.30	.30	0	0	0	0
MEAN	0	.003	.57	6.14	3.52	.35	.11	.010	0	0	0	0
MAX	0	.05	4.5	49	20	3.2	.76	.03	0	0	0	0
MIN	0	0	0	.02	.12	.08	.03	0	0	0	0	0
AC-FT	0	.2	35	378	195	21	6.5	.6	0	0	0	0

CAL YR 1968 TOTAL 119.16 MEAN .33 MAX 17 MIN 0 AC-FT 236
WTR YR 1969 TOTAL 320.93 MEAN .88 MAX 49 MIN 0 AC-FT 637

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	.01	.12	12	.07	.02				
2			0	.01	.10	.54	.07	.02				
3			0	0	.08	.24	.06	.02				
4			0	0	.07	3.7	.06	.01				
5			0	0	.07	.57	.07	.01				
6			0	0	.06	.24	.07	.01				
7			0	0	.06	2.2	.06	.01				
8			0	.01	.06	5.5	.06	.02				
9			0	3.4	.05	.50	.06	.02				
10			0	.45	.05	.64	.06	.02				
11			0	.45	.05	.27	.06	.02				
12			0	.82	.32	.21	.06	.02				
13			0	5.7	5.8	.18	.06	.02				
14			0	19	1.6	.16	.07	.01				
15			0	2.8	.24	.14	.06	.01				
16			0	12	3.1	.14	.06	0				
17			0	.59	1.4	.14	.07	0				
18			0	.16	.37	.12	.06	0				
19			0	2.8	.18	.10	.06	0				
20			.74	5.5	.16	.10	.06	0				
21			5.1	33	.12	.10	.06	0				
22			.06	3.2	.10	.10	.05	0				
23			5.9	11	.08	.10	.05	0				
24			15	3.7	.08	.08	.05	0				
25			3.3	.59	.07	.08	.05	0				
26			.30	.78	.06	.08	.05	0				
27			.05	6.5	.06	.07	.05	0				
28			.03	.50	.72	.08	.04	0				
29			.02	.27	---	.07	.03	0				
30			.01	.18	---	.07	.03	0				
31		---	.01	.16	---	.07	---	0	---			---
TOTAL	0	0	30.52	113.58	15.23	28.59	1.72	.24	0	0	0	0
MEAN	0	0	.98	3.66	.54	.92	.057	.008	0	0	0	0
MAX	0	0	15	33	5.8	12	.07	.02	0	0	0	0
MIN	0	0	0	0	.05	.07	.03	0	0	0	0	0
AC-FT	0	0	61	225	30	57	3.4	.5	0	0	0	0

CAL YR 1969 TOTAL 333.78 MEAN .91 MAX 49 MIN 0 AC-FT 662
WTR YR 1970 TOTAL 189.88 MEAN .52 MAX 33 MIN 0 AC-FT 377

11425000 FEATHER RIVER AT NICOLAUS, CALIF.

LOCATION.--Lat 38°54'01", long 121°35'00", T.12 N., R.3 E., Sutter County, on left bank at highway bridge at Nicolaus, 2.9 miles downstream from Bear River and at mile 9.4.

DRAINAGE AREA.--5,920 sq mi (revised).

PERIOD OF RECORD.--June 1921 to December 1942 (low-water periods only), April 1943 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 3.30 ft below mean sea level. Prior to November 1931, on middle fender pier of bridge 0.3 mile upstream at present datum. Since June 1960, auxiliary water-stage recorder at various sites near highway bridge for low-water periods.

AVERAGE DISCHARGE.--27 years, 8,113 cfs (5,878,000 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 6, 1966	22,900	32.76	July 1, 1966	104
1967	Jan. 31, Feb. 1, 1967	96,600	44.04	Oct. 28, 1966	560
1968	Feb. 22, 1968	34,100	36.77	July 24-26, 28, 1968	230
1969	Jan. 22, 1969	88,400	43.60	Oct. 3, 8, 1968	1,020
1970	Jan. 22, 1970	146,000	46.81	June 3, 1970	1,920

Period of record: Maximum discharge since 1943, 357,000 cfs Dec. 23, 1955; maximum gage height, 51.60 ft Dec. 23, 1955; no flow Aug. 2-18, 1924, July 11-22, 24, 26, Aug. 1, 1931.

REMARKS.--Records fair. Flow partly regulated by many reservoirs (total capacity, 6,868,000 acre-ft), the largest of which are Lake Oroville (see station 11406800) completed in 1968, Lake Almanor (see station 11399000) completed in 1913, and New Bullards Bar Reservoir (see station 11413515) completed in 1969. Diversions for irrigation of about 87,000 acres between stations at Oroville and at Nicolaus. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2970	3810	4900	6600	6810	6060	12500	5790	1100	104	694	467
2	3100	3890	4700	6000	8720	5710	13400	5680	1060	264	694	511
3	3030	3940	4600	5500	7600	5550	14300	5620	1000	400	688	484
4	2970	4020	4600	6500	6420	5370	13800	5730	920	445	599	599
5	2930	3950	4600	12700	6420	5270	12800	5980	880	472	566	572
6	3030	3840	4500	22200	8140	5210	12200	6440	860	472	566	528
7	3120	3770	4500	15900	9460	5210	12200	6650	840	538	566	604
8	3110	3890	4400	12000	8900	5410	12100	6600	820	533	533	688
9	3220	3880	4400	10000	8340	5730	11900	6670	840	495	538	724
10	3250	3650	4400	9200	6920	6220	13000	6800	760	522	572	730
11	3240	3610	4500	8400	5910	8730	17800	7640	700	572	588	712
12	3130	3690	4600	7800	5300	9700	17900	7910	650	572	622	756
13	2860	3810	4600	7480	5200	9810	16500	7190	600	572	628	718
14	2820	4250	4600	6800	5100	12900	13600	6630	528	588	676	694
15	2850	5060	4500	6300	5000	14200	11900	6260	616	594	724	724
16	3170	5230	4500	6000	4900	13400	11100	5900	566	594	750	881
17	3480	4960	4400	5800	4800	12400	10800	5320	445	622	700	1000
18	3640	6200	4400	5600	4700	10500	11200	5040	385	646	544	1040
19	3700	10300	4300	5500	5000	9500	10800	4720	375	628	445	1100
20	3700	8510	4300	5400	5400	9080	9310	4440	395	610	405	1110
21	3780	7540	4200	5300	5200	8620	8110	4340	365	594	350	1100
22	3720	6800	4200	5300	5100	8200	7200	4180	350	588	315	1090
23	3650	6270	4200	5200	5600	7850	6740	3920	335	572	286	1120
24	3510	6360	4400	5200	6290	7510	6520	3550	286	528	259	1180
25	3580	8100	4700	5100	6740	7310	6570	2900	218	528	218	1210
26	3540	7780	6000	5100	7300	7470	6790	2400	210	533	250	1220
27	3610	6740	5200	5100	7240	7880	7110	2200	187	522	272	1200
28	3640	5840	5000	4900	6010	8590	6730	2200	156	500	282	1130
29	3670	5270	7200	4500	---	9380	6260	1900	120	516	335	1090
30	3720	5000	8960	6630	---	10400	6010	1600	112	555	360	1060
31	3710	---	7280	10400	---	11700	---	1300	---	610	385	---
TOTAL	103450	159960	151640	234410	178520	260870	327150	153500	16679	16289	15410	26042
MEAN	3337	5332	4892	7562	6376	8415	10910	4952	556	525	497	868
MAX	3780	10300	8960	22200	9460	14200	17900	7910	1100	646	750	1220
MIN	2820	3610	4200	4500	4700	5210	6010	1300	112	104	218	467
AC-FT	205200	317300	300800	465000	354100	517400	648900	304500	33080	32310	30570	51650

CAL YR 1965 TOTAL 3645630 MEAN 9988 MAX 106000 MIN 1260 AC-FT 7231000
WTR YR 1966 TOTAL 1643920 MEAN 4504 MAX 22200 MIN 104 AC-FT 3261000

11425000 FEATHER RIVER AT NICOLAUS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1060	790	16100	5890	90200	9100	20100	13700	23000	11400	1570	2090
2	942	910	18200	6100	72300	9240	18700	13300	19400	11100	1890	2070
3	950	966	32400	5830	37200	9140	16800	12900	18200	10500	1730	2190
4	958	1130	31100	5720	30000	9080	15500	13000	17400	9600	1690	2180
5	982	1130	29000	5960	23000	8580	14700	13300	17500	8160	1600	2080
6	942	1140	39000	5760	20000	8060	17100	14500	18500	7200	1580	2050
7	809	1520	37000	5720	17500	7780	27700	15500	19500	6850	1310	2000
8	823	1980	23000	5750	15300	7800	25300	16900	19500	6160	1250	2060
9	854	1760	16000	5730	15000	7700	19500	19900	19300	4840	1290	2160
10	862	1660	14000	5700	14000	7570	17800	23500	19400	4490	1270	2020
11	862	1610	13000	5600	13400	8560	18200	25500	19300	4410	1180	2150
12	926	1620	12000	5510	13200	11400	19000	23100	18900	4440	1330	2120
13	846	1700	11000	5350	13000	13800	16500	20600	19700	4310	1470	2060
14	753	1760	10000	5490	13300	13900	15900	18500	20200	4140	1450	2080
15	767	1760	9400	5590	13300	11900	15400	17800	19200	4020	1440	2140
16	788	3020	9000	5460	12500	15600	14800	19300	19100	3580	1490	2220
17	802	7920	8000	5280	12000	50400	13800	22500	19500	3200	1490	2340
18	846	4490	7800	5080	11700	63400	17700	25300	20300	3050	1640	2510
19	830	3100	7400	4900	11300	55200	18000	27000	20800	3450	1700	2610
20	823	5030	7300	4740	11000	48000	17800	28000	20900	3100	1800	2550
21	767	14700	7700	14600	10900	38200	16500	29800	19500	3200	1880	2480
22	690	13200	8100	72500	10700	31500	15600	32500	18200	2700	1910	2660
23	606	10500	8000	76100	10400	28700	15000	34500	17800	2100	1780	2670
24	606	7290	7700	45000	10200	30000	16000	35800	15900	1900	1850	2560
25	606	5620	7500	35000	10200	28600	18200	37400	14500	1800	1770	2550
26	578	4200	6700	31000	10200	24800	16300	37100	14300	2500	1580	2670
27	571	3360	6400	28000	9620	21400	15800	35400	14300	2410	1630	2680
28	560	3120	6300	32700	9200	18500	16000	32600	13300	2250	1710	2700
29	680	5320	6450	51700	---	17000	14400	30300	12400	2190	1850	2760
30	720	20800	6400	82200	---	15900	14000	27900	11800	1910	2050	2410
31	750	---	6130	93200	---	16300	---	25000	---	1620	2060	---
TOTAL	24559	133106	428080	673160	540620	647110	518100	742400	541600	142580	50240	69820
MEAN	792	4437	13810	21710	19310	20870	17270	23950	18050	4599	1621	2327
MAX	1060	20800	39000	93200	90200	63400	27700	37400	23000	11400	2060	2760
MIN	560	790	6130	4740	9200	7570	13800	12900	11800	1620	1180	2000
AC-FT	48710	264000	849100	1335000	1072000	1284000	1028000	1473000	1074000	282800	99650	138500

CAL YR 1966 TOTAL 1814615 MEAN 4972 MAX 39000 MIN 104 AC-FT 3599000
WTR YR 1967 TOTAL 4511375 MEAN 12360 MAX 93200 MIN 560 AC-FT 8948000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1980	2810	1880	1510	5600	8300	5030	3520	3560	802	250	788
2	1700	2940	1800	1510	4550	7300	5220	3730	3380	606	285	809
3	2680	3180	1760	1500	6800	6500	5090	3910	3240	444	285	816
4	3580	3120	1850	1490	5700	6100	4760	4760	3000	396	280	809
5	3350	2920	2030	1480	4700	5800	4510	5200	2960	432	300	795
6	3140	2570	2070	1500	4200	5500	4420	5270	2730	408	306	816
7	3140	2720	1890	1590	4100	5200	4310	4830	2420	348	265	854
8	3200	2980	2010	1610	4050	5300	4130	4160	1970	324	240	910
9	3040	2430	1880	1640	4220	5600	4040	3850	1870	312	270	942
10	2920	2030	1780	1780	4460	5300	4040	3370	1830	290	280	998
11	2840	1960	1740	2220	4800	5000	4120	2730	1740	275	290	1010
12	2590	1900	1700	2120	4360	4900	3900	2550	1400	312	285	1020
13	2410	2140	1660	1810	4020	5810	3910	2550	1280	330	312	1100
14	2320	2460	1640	1800	6410	8740	3760	3280	1240	330	312	1100
15	2730	2200	1630	2130	4660	9070	3600	4090	1230	396	324	1090
16	2720	1900	1640	3250	3800	8550	3390	2890	1280	360	342	1070
17	2660	1800	1630	2980	4250	11900	3120	3160	1380	300	372	1130
18	2720	1730	1680	2810	11100	12000	2960	3780	1290	312	360	1110
19	2590	1740	1680	3200	11100	10300	2740	4020	1240	285	414	1030
20	2610	1770	1660	2850	20900	8090	2610	4040	1280	280	529	1010
21	2570	1760	1640	2590	30900	6600	2470	3640	1460	270	676	1020
22	2380	1710	1640	2400	33000	5850	2420	3070	1450	285	711	1040
23	2280	1690	1610	2330	24000	5490	2380	3920	1640	275	732	1040
24	2380	1660	1560	2330	20400	5260	2560	4090	1700	230	753	1040
25	2510	1750	1540	2330	18000	5120	2560	4170	1600	230	739	1030
26	2590	1840	1550	2350	13500	5110	2610	4220	1270	230	711	1050
27	2640	1840	1560	2270	11200	4940	2700	4380	1030	240	781	1050
28	2700	1860	1540	2200	10600	4620	2830	4300	846	230	894	1070
29	2410	1880	1500	2210	9400	4520	2860	4290	802	235	870	1050
30	2260	1900	1540	3800	---	4690	3030	3970	795	255	823	1060
31	2310	---	1520	7700	---	4920	---	3780	---	235	781	---
TOTAL	81950	65190	52810	73290	294780	202380	106080	119520	52913	10257	14772	29657
MEAN	2644	2173	1704	2364	10160	6528	3536	3855	1764	331	477	989
MAX	3580	3180	2070	7700	33000	12000	5220	5270	3560	802	894	1130
MIN	1700	1660	1500	1480	3800	4520	2380	2550	795	230	240	788
AC-FT	162500	129300	104700	145400	584700	401400	210400	237100	105000	20340	29300	58820

CAL YR 1967 TOTAL 4125580 MEAN 11300 MAX 93200 MIN 1180 AC-FT 8183000
WTR YR 1968 TOTAL 1103599 MEAN 3015 MAX 33000 MIN 230 AC-FT 2189000

11425000 FEATHER RIVER AT NICOLAUS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1100	1760	1800	3200	48800	36100	11700	19400	11400	1400	4220	7130
2	1070	1760	1820	2970	31700	33200	12200	18200	11500	1360	4210	7130
3	1020	2000	1820	2650	25000	29100	13700	14100	10300	1310	4200	7150
4	1050	2320	1810	2720	21900	23600	19000	10700	8340	1310	4180	7190
5	1070	2200	1800	2710	23200	20200	23200	10300	7220	1310	4670	7210
6	1070	2100	1780	2720	27700	17200	26900	10100	6550	1400	5540	7260
7	1040	2010	1800	2700	26600	16300	26900	10100	6140	2130	5730	7220
8	1020	1930	1800	2680	23900	15100	25900	10300	5300	2160	6100	7220
9	1040	1910	1800	2620	23800	14700	26200	10400	4470	2140	6450	7180
10	1030	1900	1830	2590	27200	14800	25900	10800	4050	2300	6080	7110
11	1030	1890	2130	2700	28200	13600	23500	11400	3600	2450	5740	7080
12	1130	2020	2260	5580	39200	11800	22600	12200	3170	2410	6270	7070
13	1350	2000	2210	14600	44600	11100	22600	12600	2770	2430	6620	7060
14	1400	1890	2430	35400	41400	10200	22300	12900	2880	2490	6630	7070
15	1400	2020	3390	20500	41700	9400	22100	18900	2810	2520	6650	7050
16	1640	2110	4150	11000	53100	9140	21700	21200	2860	2540	6640	7070
17	1850	1980	3200	8320	47300	9660	20200	21200	3060	2530	6610	7030
18	1850	1930	2840	5130	42000	10500	19900	21800	3100	2490	6660	7030
19	1820	1990	3500	14700	39000	10900	19400	22500	2730	2460	6730	7070
20	1800	2010	3160	48200	32400	11900	19400	22500	2420	2460	6780	7020
21	1790	1950	2560	74700	27300	13600	18700	22000	2470	2550	6810	6970
22	1770	1900	2490	82800	26400	15700	18400	21800	2690	2550	6860	6940
23	1770	1890	2520	80700	26300	16400	18100	21300	2610	2490	6910	6970
24	1780	1850	2620	70000	28200	16200	19000	18700	2370	3210	6940	6930
25	1770	1840	5400	67000	32500	13200	18300	17000	2100	3770	6950	6880
26	1740	1810	9160	72500	32800	10300	21100	16100	1990	4020	7030	6900
27	1720	1790	6170	79500	28100	9360	22300	14400	1510	4040	7070	6860
28	1700	1790	4550	71600	26600	9550	22100	13700	1480	4100	7070	6360
29	1710	1780	4320	65000	---	9730	21600	12800	1500	4130	7090	5540
30	1880	1790	3600	59300	---	9980	20500	11900	1460	4140	7110	4740
31	1880	---	3330	55200	---	10400	---	11800	---	4220	7120	---
TOTAL	45290	58120	94050	971990	916900	462920	625400	483100	124850	80820	193670	207440
MEAN	1461	1937	3034	31350	32750	14930	20850	15580	4162	2607	6247	6915
MAX	1880	2320	9160	82800	53100	36100	26900	22500	11500	4220	7120	7260
MIN	1020	1760	1780	2590	21900	9140	11700	10100	1460	1310	4180	4740
AC-FT	89830	115300	186500	1928000	1819000	918200	1240000	958200	247600	160300	384100	411500

CAL YR 1968 TOTAL 1101109 MEAN 3008 MAX 33000 MIN 230 AC-FT 2184000
WTR YR 1969 TOTAL 4264550 MEAN 11680 MAX 82800 MIN 1020 AC-FT 8459000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3950	3390	3830	19200	59900	17000	5430	4600	3480	2330	3650	5900
2	3720	3340	3960	16800	45000	25700	4680	4650	2220	2290	3860	6500
3	3630	3310	4060	15200	36700	24400	4580	4510	1920	2220	4100	6530
4	3560	3390	4070	14900	26300	23300	4470	4680	2400	2200	4360	6590
5	3490	3520	4040	13400	19900	23500	4350	4680	2750	2180	4720	6650
6	3460	3620	4010	8850	20100	21600	4220	4760	2700	2130	4900	6680
7	3430	3710	3990	6510	17300	20000	4020	4880	2550	2070	5020	6700
8	3420	3940	4280	6270	14300	23000	3880	3740	2500	2050	5040	6690
9	3390	3870	4450	6350	14000	25000	3760	3030	2500	2040	5080	7230
10	3400	3830	4440	8000	13800	24800	3670	3130	2500	2040	5160	7910
11	3350	3590	4770	11900	12900	25300	3630	4530	2600	2040	5230	7860
12	3350	3680	5270	14600	14500	23600	3450	5120	2800	2020	5370	7830
13	3510	3730	5800	16800	15800	23200	3340	5300	2750	2010	5450	7780
14	3330	3600	6630	33400	22800	20800	3240	5280	2740	1980	5460	7700
15	3370	3550	6940	62200	24400	19500	2930	5350	2720	1940	5590	7630
16	3590	3580	7030	78200	20800	18700	2920	5250	2700	1980	5650	7600
17	3620	3890	6740	109000	24400	15900	2880	5110	2690	2040	5630	7460
18	3520	3950	6260	110000	26800	14600	2760	4600	2680	2080	5580	7300
19	3460	3960	6260	97600	22800	13700	2590	3850	2660	2080	5580	7290
20	3440	3960	7070	94200	20100	12700	2490	3900	2650	2100	5560	7290
21	3460	3970	9630	94200	18600	9280	2450	3630	2620	2610	5600	7090
22	3460	3950	11000	138000	18500	8400	2430	3610	2580	2870	5840	5570
23	3450	3940	8240	121000	18500	7890	2450	3500	2560	2890	5940	5270
24	3430	3940	17800	131000	18800	7730	2430	3370	2540	2860	6030	5250
25	3430	3980	39600	138000	20500	7340	2340	3310	2520	2880	6240	5190
26	3420	3920	39200	130000	16700	6900	2310	3210	2500	2930	6440	5260
27	3410	3870	32800	122000	15000	5350	2350	2730	2470	3000	6570	5560
28	3450	3850	28200	118000	15200	4810	2740	2350	2430	3030	6600	5580
29	3430	3870	25300	101000	---	4740	4350	2270	2400	3220	6550	5440
30	3420	3840	24500	96200	---	5260	4410	2650	2370	3400	6570	4730
31	3430	---	23500	79600	---	5810	---	3570	---	3510	6420	---
TOTAL	107780	112540	363670	2012380	614400	489810	101550	125150	77500	75020	169790	198060
MEAN	3477	3751	11730	64920	21940	15800	3385	4037	2583	2420	5477	6602
MAX	3950	3980	39600	138000	59900	25700	5430	5350	3480	3510	6600	7910
MIN	3330	3310	3830	6270	12900	4740	2310	2270	1920	1940	3650	4730
AC-FT	213800	223200	721300	3992000	1219000	971500	201400	248200	153700	148800	336800	392900

CAL YR 1969 TOTAL 4651080 MEAN 12740 MAX 82800 MIN 1310 AC-FT 9225000
WTR YR 1970 TOTAL 4447650 MEAN 12190 MAX 138000 MIN 1920 AC-FT 8822000

11425500 SACRAMENTO RIVER AT VERONA, CALIF.

LOCATION.--Lat 38°46'51", long 121°36'12", in SE¼ sec.23, T.11 N., R.3 E., Sutter County, on left bank 0.8 mile southeast of Verona, 1 mile downstream from Feather River, 6.2 miles east of Knights Landing, and at mile 19.6 upstream from Sacramento.

DRAINAGE AREA.--21,257 sq mi (revised).

PERIOD OF RECORD.--May 1926 to September 1929 (low-water periods only), October 1929 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 3.00 ft below mean sea level.

AVERAGE DISCHARGE.--41 years (1929-70), 18,370 cfs (13,310,000 acre-ft per year.)

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 10, 1966	50,800	30.90	June 17, 1966	6,760
1967	Feb. 1, 1967	67,100	36.88	Oct. 29, 1966	8,090
1968	Feb. 28, 1968	58,600	33.48	June 20, 1968	7,280
1969	Jan. 26, 1969	68,500	37.11	Oct. 11, 1968	9,020
1970	Jan. 26, 1970	77,800	39.21	June 4, 1970	7,600

1929-70: Maximum discharge, 79,200 cfs Mar. 1, 1940 (gage height, 41.20 ft); minimum daily, 304 cfs July 23, 24, 1931; maximum reverse flow, 16,800 cfs Dec. 4, 1950, backwater from American River.

1934-70: Maximum combined discharge of Sacramento River at Verona and Fremont weir, about 322,000 cfs Dec. 25, 1964.

REMARKS.--Records excellent. Natural flow of stream affected by storage reservoirs, power developments, diversions for irrigation, return flow from irrigated areas, and bypassing for flood control. When discharge exceeds about 55,000 cfs, flow begins over Fremont weir (just upstream) into Yolo Bypass (see station 11453000). Gage height of crest of Fremont weir is 33.5 ft. Water-quality records for the water years 1969-70 are published in reports of the Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12900	12800	20200	29200	28900	21500	24500	12000	8340	8190	11000	11900
2	12900	13000	17500	27800	28400	20000	25300	11600	8250	8200	10800	11900
3	12600	12800	15800	25700	30400	18900	26200	11700	8230	8230	10600	11200
4	12300	12700	16200	24000	30100	17800	26300	12600	8140	8530	10400	11300
5	12200	12800	17800	26700	31200	16700	25200	13300	8340	8910	10200	11000
6	12100	12600	18600	39100	34400	15800	24000	14400	8720	9130	10100	10600
7	12200	12500	19100	43200	37100	15700	23100	15300	9160	9180	10100	10700
8	12200	12600	19300	46300	38200	16000	22100	15800	9320	9060	10100	10900
9	12300	12700	19500	49800	37400	16400	21400	16000	9450	9120	10100	11100
10	12300	12800	19700	50600	34500	17000	21200	16300	9400	9290	10200	10700
11	12200	12900	19800	49000	30900	19800	24900	17700	9210	9580	10300	11000
12	12100	12900	20100	46000	27800	23100	27600	19400	8950	9770	10200	10400
13	11900	13100	20500	42000	25000	24300	27900	19600	8490	9840	10300	10200
14	11800	14100	20700	38200	22800	25400	26000	18900	7940	10200	10400	10000
15	11700	16100	20500	35400	21300	27200	22800	18200	7420	10500	10500	9830
16	12000	20300	20300	33400	20200	27000	20100	17500	7200	10800	10700	9590
17	12400	24400	20000	32000	19300	26600	18900	16200	6760	11100	10700	9660
18	12700	24000	19800	30700	18400	25500	19200	15300	7010	11300	10500	9670
19	12900	27300	19800	29500	17800	24600	19700	14700	7340	11400	10400	9740
20	12700	29500	19700	28800	17600	24300	18900	14000	7500	11200	10200	9720
21	13000	27500	19600	27900	18400	24300	17400	13100	7830	11200	10000	9640
22	13200	24800	19700	27100	19000	24000	15400	12500	7930	11200	10200	9430
23	13000	23100	19300	26900	18200	23500	14300	12000	8060	11200	10200	9370
24	12800	21900	18800	26600	17700	22900	13700	11400	8180	11200	10300	9250
25	12600	22200	19000	26300	18100	22100	13500	10800	8310	11000	10200	9190
26	12600	23400	21000	25900	20400	21800	13600	10100	8460	10500	10200	9290
27	12600	23800	21200	25400	22400	21900	14800	9520	8330	10200	10500	9280
28	12600	23600	20700	24400	22900	21700	15500	9300	8270	10200	10800	8960
29	12500	23200	22600	23300	---	22200	14000	9340	8270	10300	11000	8890
30	12600	22400	27500	22400	---	22900	12600	9000	8210	10600	11200	8580
31	12700	---	29800	25900	---	23800	---	8560	---	11000	11500	---
TOTAL	386600	557800	624100	1009500	708800	674700	610100	426120	247020	312130	323900	302990
MEAN	12470	18590	20130	32560	25310	21760	20340	13750	8234	10070	10450	10100
MAX	13200	29500	29800	50600	38200	27200	27900	19600	9450	11400	11500	11900
MIN	11700	12500	15800	22400	17600	15700	12600	8560	6760	8190	10000	8580
AC-FT	766800	1106000	1238000	2002000	1406000	1338000	1210000	845200	490000	619100	642500	601000

CAL YR 1965 TOTAL 8387540 MEAN 22980 MAX 69600 MIN 8660 AC-FT 16640000
WTR YR 1966 TOTAL 6183760 MEAN 16940 MAX 50600 MIN 6760 AC-FT 12270000

11425500 SACRAMENTO RIVER AT VERONA, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8480	8490	36700	21300	67000	24200	33600	46600	45200	23700	12100	13700
2	8520	8600	37300	20400	65700	24000	35300	44800	43400	23200	12400	13800
3	8470	8660	44000	19400	63900	23500	35500	42800	41100	22500	12300	13800
4	8560	8860	49800	18600	62100	22900	34100	40600	39500	21800	12200	14000
5	8760	9010	52200	18600	60500	22200	32400	38700	38400	20600	12300	14300
6	8850	9380	57200	18000	59300	21300	32100	37500	38300	19000	12400	14400
7	8760	9860	58700	17300	58300	20500	38000	36200	38500	18100	12200	14600
8	8760	11000	57600	16500	57400	20200	42800	35800	38500	17400	12100	14800
9	8720	11500	55600	15900	56500	19600	43600	36900	38000	15700	12100	15300
10	8740	11100	54700	15700	55300	19100	42800	39100	37500	14900	12100	15300
11	8810	10800	54200	15500	53400	19200	42500	41400	37100	14600	12000	15600
12	8870	10700	53800	15100	51200	21900	43000	42300	36700	14900	12000	16000
13	8830	10700	52700	14600	48300	26000	42300	41200	36700	14800	12400	16500
14	8640	10900	50500	14300	45600	29100	40900	39100	37200	14700	12700	16600
15	8590	11500	47500	14300	43300	28700	40100	37800	36500	14600	12600	16600
16	8620	12500	44500	14100	40900	29300	40200	37500	35900	14400	12600	16700
17	8610	17800	40900	13800	38400	44100	39600	38900	35500	13700	12400	16800
18	8640	18600	37100	13500	36300	55500	40200	41000	35600	13400	12300	16800
19	8660	16000	34200	13200	34700	56900	42500	43100	35800	13600	12400	17000
20	8680	16000	32300	13200	33100	56100	44600	44700	35800	13300	12600	17100
21	8630	28400	31000	18500	31800	54400	46300	46200	35200	13100	12700	16500
22	8460	34500	30500	49200	30500	51700	47400	48000	33800	13100	12700	16200
23	8360	33400	29700	60700	29000	49100	47400	49800	32900	13100	12600	15900
24	8360	29500	28800	59900	27500	47700	47200	51400	31200	12700	12500	15700
25	8300	25500	28100	59300	26600	46800	47900	52700	29000	12700	12500	15400
26	8280	23000	26900	57900	26200	44600	48500	53400	27800	12700	12600	15200
27	8190	21300	25600	57200	25500	41300	48500	53600	27500	13000	12500	15100
28	8140	20500	24500	57900	24800	37600	48600	52800	26700	12700	13000	14900
29	8090	21500	24200	60900	---	34800	48400	51700	25600	12500	13300	14800
30	8150	33100	23500	64200	---	32900	47900	49800	24500	12500	13300	14300
31	8250	---	22600	66300	---	31900	---	47600	---	12200	13600	---
TOTAL	264780	502660	1246900	935300	1253100	1057100	1264200	1363000	1055400	479200	387500	463700
MEAN	8541	16760	40220	30170	44750	34100	42140	43970	35180	15460	12500	15460
MAX	8870	34500	58700	66300	67000	56900	48600	53600	45200	23700	13600	17100
MIN	8090	8490	22600	13200	24800	19100	32100	35800	24500	12200	12000	13700
AC-FT	525200	997000	2473000	1855000	2486000	2097000	2508000	2704000	2093000	950500	768600	919700

CAL YR 1966 TOTAL 6629600 MEAN 18160 MAX 58700 MIN 6760 AC-FT 13150000
WTR YR 1967 TOTAL 10272840 MEAN 28140 MAX 67000 MIN 8090 AC-FT 20380000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13500	13100	11800	12300	34500	57700	17600	8620	9180	8060	10800	10200
2	12700	13600	12100	12200	31900	56500	17800	9160	8570	7910	10900	10000
3	12900	14000	12200	12100	30600	54600	17900	9520	8400	7610	11100	9950
4	15100	13700	12500	11800	32600	51900	17300	10900	8550	7600	11200	10200
5	15400	13000	14800	11600	32300	47800	16200	12400	8540	7920	11400	10500
6	15200	12200	16100	11400	29600	42400	15500	13100	8430	8170	11400	10900
7	14900	11800	16700	11400	27000	37200	15000	13400	9450	8670	11500	11500
8	14700	12000	16000	11200	25100	33900	14300	12700	10300	8900	11400	12100
9	14600	11600	16100	11200	23700	32000	13300	12500	10900	8810	11400	12500
10	14300	10900	15600	11700	22700	30300	12500	12600	11100	8830	11500	13000
11	13700	10500	14400	15400	22600	28500	12300	12400	10900	8850	11500	13400
12	13500	10300	13500	22700	22000	26600	12100	12600	10300	8890	11500	13700
13	13000	10400	12800	20700	21000	26100	12100	13000	9530	8990	11400	14000
14	12500	11100	12300	17400	22000	28900	11800	13800	8830	9220	11400	14200
15	12900	11400	12200	17300	21300	30900	11100	15500	8290	9620	11600	14300
16	13000	11100	12100	27000	19500	31000	10400	14500	7820	9760	11800	13900
17	13000	11200	12000	31100	19200	32900	9630	14200	7820	9730	11800	13600
18	12900	10900	12200	32200	26500	35100	8880	13700	7870	9680	11800	13300
19	12900	10900	12200	30400	34400	34100	8310	13600	7570	9730	11600	12900
20	12800	11100	12200	26700	39500	30700	7940	13500	7280	9790	11500	12400
21	12900	11100	12100	23500	47900	27300	7720	13500	7440	9850	11900	12300
22	12900	11000	11900	21200	54600	24600	8060	12900	7810	9930	12900	12400
23	12600	10900	11900	19100	56200	22900	8030	13600	8140	9950	14200	12100
24	12800	10700	11800	17600	57900	21800	8020	13700	8310	9890	13800	12000
25	13000	10600	11700	16600	58100	20900	8080	13600	8150	9890	13000	11900
26	13300	10800	11800	15900	58000	20200	8380	13400	7910	10000	12400	11800
27	13300	10800	11900	15300	58200	19600	9250	13200	7370	10300	11900	11800
28	13600	10800	12000	14600	58500	18700	9530	12700	7370	10600	11700	11700
29	13400	10900	12200	14400	58300	17700	8740	11900	7650	10700	11300	11600
30	12900	11400	12400	17200	---	17400	8290	11000	8090	10600	10900	11500
31	12500	---	12400	31700	---	17600	---	10000	---	10700	10500	---
TOTAL	416700	343800	401900	564900	1045700	977800	346060	391200	257870	289150	363000	365650
MEAN	13440	11460	12960	18220	36060	31540	11540	12620	8596	9327	11710	12190
MAX	15400	14000	16700	32200	58500	57700	17900	15500	11100	10700	14200	14300
MIN	12500	10300	11700	11200	19200	17400	7720	8620	7280	7600	10500	9950
AC-FT	826500	681900	797200	1120000	2074000	1939000	686400	775900	511500	573500	720000	725300

CAL YR 1967 TOTAL 9420900 MEAN 25810 MAX 67000 MIN 10300 AC-FT 18690000
WTR YR 1968 TOTAL 5763730 MEAN 15750 MAX 58500 MIN 7280 AC-FT 11430000

11425500 SACRAMENTO RIVER AT VERONA, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11400	11200	11200	29500	63100	61000	30500	33700	28500	13000	13400	19400
2	11600	11100	11200	25500	61100	61000	31600	32900	27900	12700	13500	19400
3	11300	11100	11200	22400	59300	60800	32500	31000	26800	12400	13500	19600
4	10800	11500	11200	20100	57900	59800	35000	27100	24600	11900	13600	19900
5	10200	11900	11100	18700	56600	58600	38200	25700	22400	11100	13800	20000
6	9830	11900	10900	17800	57800	57200	41200	24900	21100	10800	14900	19700
7	9440	11700	10900	17400	58300	55700	44000	24300	20400	11200	15100	19300
8	9240	11500	11000	16700	58100	53700	45200	24200	19500	11500	15100	18700
9	9140	11400	11100	15900	58000	50700	45100	24500	18600	11300	15600	18600
10	9050	11300	11700	14800	58200	47100	44500	25600	18100	11100	15700	18300
11	9020	11000	13500	14100	58700	43300	42900	27000	18100	11300	15200	18300
12	9330	11200	23300	15800	61000	39300	41100	28400	18100	11400	15600	18200
13	9760	11200	25000	29200	61900	35900	40200	29600	17900	11400	16100	18100
14	10400	11400	20900	48700	62400	33400	39700	30100	18000	11700	16100	18100
15	11100	11900	21700	56800	63300	31400	39200	32900	17900	11600	16200	18100
16	11100	12300	27500	60300	64500	29900	38500	36400	17600	11500	16100	18100
17	11200	12700	30400	59200	64400	29100	37200	37100	17400	11400	16300	18400
18	11000	12500	28700	57100	64100	29100	35800	38100	16900	11300	16500	18400
19	10800	12500	24500	56900	63400	29100	34600	39600	16300	11100	16500	18300
20	10800	13100	21200	61200	62500	29800	34100	40500	15700	11100	16600	18200
21	10800	13500	18300	65600	61600	31000	33400	40600	15500	11300	16600	18000
22	10600	13000	16200	67400	61000	32800	32400	40400	15700	11400	16900	17800
23	10500	12200	14900	68300	60600	34700	31700	40000	15800	11300	17200	17600
24	10400	11900	14400	67200	60600	34600	32500	38700	15500	11700	17300	17400
25	10400	11600	20300	67000	61100	33000	33400	36800	14800	12500	17300	17000
26	10400	11600	32800	67700	61500	30100	34700	35500	14300	12900	17400	16800
27	10200	11500	35500	68100	60500	28200	36200	34000	13700	12900	17800	16700
28	10200	11300	35200	67200	59800	27800	36000	32600	13300	13300	18000	16400
29	10200	11100	34000	66100	---	27900	35500	31500	13200	13400	18400	15600
30	10500	11100	35300	65200	---	28500	34500	30200	13100	13300	18700	14700
31	10900	---	34000	64300	---	29300	---	29300	---	13300	19100	---
TOTAL	321610	353200	639100	1392200	1701300	1233800	1111400	1003200	546700	368100	500100	543100
MEAN	10370	11770	20620	44910	60760	39800	37050	32360	18220	11870	16130	18100
MAX	11600	13500	35500	68300	64500	61000	45200	40600	28500	13400	19100	20000
MIN	9020	11000	10900	14100	56600	27800	30500	24200	13100	10800	13400	14700
AC-FT	637900	700600	1268000	2761000	3375000	2447000	2204000	1990000	1084000	730100	991900	1077000

CAL YR 1968 TOTAL 5915240 MEAN 16160 MAX 58500 MIN 7280 AC-FT 11730000
WTR YR 1969 TOTAL 9713810 MEAN 26610 MAX 68300 MIN 9020 AC-FT 19270000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13700	12400	12600	58300	69400	41300	19000	13800	10300	10500	10700	14100
2	13200	12400	12600	56000	67800	46600	18100	13500	9400	10600	10500	14700
3	12600	12300	12800	53300	66800	51100	17300	13300	9220	10300	10700	15000
4	12100	12300	12800	49800	65600	51100	16400	13500	7600	10100	10800	15200
5	11700	12500	12800	44900	64400	50400	15800	14000	7780	10100	11000	15200
6	11600	12800	12800	38200	63700	50300	15300	13900	8200	10100	11200	15100
7	11400	13800	12700	32500	62900	50200	14600	13600	8500	9580	11400	15100
8	11400	14700	13000	29800	61900	49600	14100	13300	8500	9040	11600	15300
9	11400	14900	13400	28400	61100	51100	13600	12400	9400	8680	11900	16300
10	11200	14600	13600	30900	60600	52500	13300	12800	9940	8500	12100	17100
11	11100	14200	13800	38100	60000	53600	12800	14200	10800	8680	12300	17600
12	11200	13700	14300	44600	59500	53500	12200	15500	11600	8680	12300	18200
13	11400	12700	15600	52400	59100	52200	12000	15900	11300	9400	12500	18400
14	11600	11500	25700	59200	59800	49700	12100	15900	11000	9760	12300	18000
15	11600	11500	31200	64900	60300	46500	11600	15800	10800	9940	12400	17700
16	13000	12300	30600	67900	59600	43700	11400	14900	10700	9760	12500	17400
17	12800	12800	28200	71900	59200	40500	11200	13900	10300	9580	12500	17200
18	13400	13000	25600	73100	59500	37700	10700	13000	10300	9670	12400	17000
19	13700	13000	24200	72600	58800	35600	10100	11600	10100	9760	12300	16900
20	13400	13100	26100	71800	57700	33900	9500	11600	10100	9940	12300	16900
21	13100	13100	33900	71400	56500	30100	9160	11400	10100	9940	12500	16700
22	12900	13000	39100	75100	55500	27400	8810	11000	10100	10700	12900	15400
23	12800	13000	44000	75000	54000	25700	8380	11000	9940	10700	13100	14300
24	12800	13000	55100	75200	52200	24900	8110	10900	9760	10700	13300	13900
25	12700	13000	62800	76500	50900	24100	8400	10900	9400	10700	13500	13500
26	12700	12900	63500	77300	48600	23100	8860	10500	9040	10700	13800	13200
27	12700	12800	62900	76100	45000	21400	9930	10100	8900	10800	14100	13500
28	12700	12800	62100	75500	42200	19800	10600	8680	8800	10700	14300	13700
29	12700	12700	61200	73800	---	19200	12800	9000	9220	10500	14500	13700
30	12500	12700	60400	73200	---	19100	13800	9500	9940	10700	14700	13100
31	12500	---	59700	71600	---	19300	---	10100	---	10700	14800	---
TOTAL	383600	389500	969100	1859300	1642600	1195200	369950	389480	291040	309510	387200	469400
MEAN	12370	12980	31260	59980	58660	38550	12330	12560	9701	9984	12490	15650
MAX	13700	14900	63500	77300	69400	53600	19000	15900	11600	10800	14800	18400
MIN	11100	11500	12600	28400	42200	19100	8110	8680	7600	8500	10500	13100
AC-FT	760900	772600	1922000	3688000	3258000	2371000	733800	772500	577300	613900	768000	931100

CAL YR 1969 TOTAL 10142100 MEAN 27790 MAX 68300 MIN 10800 AC-FT 20120000
WTR YR 1970 TOTAL 8655880 MEAN 23710 MAX 77300 MIN 7600 AC-FT 17170000

11426000 SACRAMENTO WEIR SPILL TO YOLO BYPASS, NEAR SACRAMENTO, CALIF.

LOCATION.--Lat 38°36'25", long 121°33'15" (unsurveyed), Sacramento County, 2 gages on right bank, one 100 ft upstream and one 100 ft downstream from weir, 3.2 miles upstream from American River, 4 miles northwest of Sacramento, and at mile 4.2 upstream from Sacramento.

PERIOD OF RECORD.--October 1939 to September 1970. Published as Sacramento weir near Sacramento 1939-60. Monthly discharge only for water years 1940-51, published in WSP 1735. Gage-height records collected at same site February 1926 to September 1934 and major flood flows only October 1934 to September 1939 are contained in reports of California Department of Water Resources.

GAGE.--Water-stage recorders and concrete weir crest. Datum of gage is 3.00 ft below mean sea level. October 1939 to September 1942 and October 1959 to September 1963 water-stage recorder or nonrecording gage at downstream end of weir. October 1942 to September 1959 water-stage recorder on left bank at Sacramento River opposite center of weir at present datum. Since February 1963 to Nov. 15, 1965, water-stage recorders on right bank 100 ft upstream and 100 ft downstream from ends of weir at present datum.

AVERAGE DISCHARGE.--31 years, 244 cfs (176,800 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	(a)	-	-	Entire year	0
1967	Jan. 31, 1967	4,730	31.27	Long periods	0
1968	(a)	-	-	Entire year	0
1969	Jan. 23, 1969	36,000	31.53	Long periods	0
1970	Jan. 24, 1970	27,100	31.74	do.	0

a No flow for entire year.

Period of record: Maximum discharge, 118,000 cfs Mar. 26, 1928; maximum gage height, 33.01 ft Dec. 23, 1955; no flow for all or most of each year.

REMARKS.--Crest of weir is at gage height 4.5 ft and top of moveable gates at 30.5 ft. Weir consists of 48 gates, each 38.1 ft long. Flow over weir enters Yolo Bypass by way of Sacramento Bypass. Flow regulated by weir gates. Since February 1963, stage is obtained by averaging the stage obtained at sites above and below the weir. No flow during water years 1966 and 1968.

COOPERATION.--Records furnished by California Department of Water Resources and reviewed by the Geological Survey, rounded to Survey standards.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEARS OCTOBER 1965 TO SEPTMEBER 1970

DEC. 6, 1965.	170	FEB. 10, 1967.	2.4	FEB. 2, 1969.	478	FEB. 27, 1969.	576	JAN. 29, 1970.	10,100
7.......	533	MAR. 17.......	34	3.......	281	28.......	494	30.......	9,060
8.......	725	18.......	686	4.......	168	MAR. 1.......	634	31.......	7,910
9.......	667	19.......	696	5.......	115	2.......	600	FEB. 1.......	6,440
10.......	264	20.......	634	6.......	190	3.......	547	2.......	1,440
11.......	86	21.......	341	7.......	220	4.......	438	3.......	686
12.......	24	22.......	31	8.......	180	5.......	345	4.......	586
JAN. 23, 1966.	218	JAN. 15, 1969.	3.0	9.......	172	6.......	264	5.......	463
24.......	371	16.......	172	10.......	176	7.......	184	6.......	384
25.......	360	17.......	214	11.......	226	8.......	61	7.......	347
26.......	251	18.......	117	12.......	416	JAN. 14, 1970.	114	8.......	283
27.......	195	19.......	173	13.......	472	15.......	451	9.......	233
28.......	542	20.......	612	14.......	485	16.......	781	10.......	174
29.......	806	21.......	19,300	15.......	600	17.......	4,640	11.......	109
30.......	1,430	22.......	32,000	16.......	725	18.......	18,400	12.......	72
31.......	4,100	23.......	33,300	17.......	754	19.......	18,300	13.......	57
FEB. 1.......	3,190	24.......	17,900	18.......	758	20.......	10,100	14.......	70
2.......	887	25.......	15,300	19.......	739	21.......	8,440	15.......	105
3.......	734	26.......	22,700	20.......	672	22.......	12,800	16.......	74
4.......	566	27.......	22,100	21.......	605	23.......	19,500	17.......	50
5.......	376	28.......	19,800	22.......	542	24.......	24,800	18.......	63
6.......	295	29.......	12,300	23.......	552	25.......	25,200	19.......	26
7.......	228	30.......	10,300	24.......	581	26.......	17,800		
8.......	149	31.......	7,790	25.......	643	27.......	15,400		
9.......	64	FEB. 1.......	2,470	26.......	662	28.......	13,100		

MONTH	CFS-DAYS	MEAN	MAXIMUM	MINIMUM	RUNOFF IN ACRE-FEET
CAL YR 1965	29,397.2	80.3	6,920	0	58,130
DECEMBER 1966	2,469	79.6	725	0	4,900
CAL YR 1966	2,469	6.76	725	0	4,900
JANUARY 1967	8,273	267	4,100	0	16,410
FEBRUARY	6,491.4	232	3,190	0	12,880
MARCH	2,422	78.1	696	0	4,800
WTR YR 1967	19,655.4	53.9	4,100	0	38,990
CAL YR 1967	17,186.4	47.1	4,100	0	34,090
JANUARY 1969	214,081.0	6,906	33,300	0	424,600
FEBRUARY	14,952	534	2,470	115	29,660
MARCH	3,073	99.1	634	0	6,100
WTR YR 1969	232,106.0	636	33,300	0	460,400
CAL YR 1969	232,106.0	636	33,300	0	460,400
JANUARY 1970	216,896	6,997	25,200	0	430,200
FEBRUARY	11,662	417	6,440	0	23,130
WTR YR 1970	228,558	626	25,200	0	453,300

NOTE.--FLOW OCCURRED ONLY ON DAYS LISTED ABOVE.

11426110 ONION CREEK TRIBUTARY NO. 3 NEAR SODA SPRINGS, CALIF.

LOCATION.--Lat 39°17'04", long 120°21'20", in E½NW¼ sec.1, T.16 N., R.14 E., Placer County, on right bank 0.8 mile upstream from Onion Creek Campground and 3.0 miles southeast of Soda Springs.

DRAINAGE AREA.--0.65 sq mi.

PERIOD OF RECORD.--October 1958 to September 1964, October 1965 to September 1967 (discontinued).

GAGE.--Water-stage recorder and 120° sharp-crested V-notch weir. Altitude of gage is 6,300 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 1.41 cfs (1,020 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-67 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Apr. 17, 1966	8.95	1.33	Aug. 24 to Sept.28, 1966	.02
1967	June 19, 1967	32.1	2.22	Oct. 1 to Nov. 5, 1966	.03

Period of record: Maximum discharge, 242 cfs Jan. 31, 1963 (gage height, 5.00 ft); minimum daily, 0.01 cfs for many days in 1958-62, 1964.

REMARKS.--Records excellent except those for period of no gage-height record Jan. 8 to Feb. 8, 1967, which are fair. This station was operated in connection with studies to develop and test methods of managing forest and other lands for improved water yield.

REVISIONS.--WSP 1715: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.07	.06	.17	.19	.15	.16	5.6	5.5	1.2	.24	.07	.02
2	.07	.07	.18	.19	.15	.17	5.4	5.8	1.1	.22	.06	.02
3	.07	.07	.20	.19	.15	.19	4.9	6.1	1.0	.22	.06	.02
4	.07	.07	.22	.19	.15	.22	4.6	6.2	.99	.20	.05	.02
5	.08	.07	.22	.24	.15	.22	5.4	6.2	.91	.20	.05	.02
6	.10	.09	.22	.28	.15	.23	5.8	5.8	.91	.18	.05	.02
7	.09	.06	.22	.22	.14	.25	6.0	5.7	.86	.18	.05	.02
8	.07	.08	.22	.18	.14	.30	5.8	5.5	.82	.18	.04	.02
9	.07	.08	.20	.16	.14	.36	5.0	5.6	.78	.17	.04	.03
10	.07	.07	.20	.15	.14	.40	4.2	6.1	.71	.17	.04	.03
11	.07	.07	.20	.15	.14	.37	3.6	5.3	.67	.17	.04	.03
12	.07	.08	.20	.15	.14	.41	3.3	4.7	.64	.15	.04	.03
13	.10	.11	.18	.15	.14	.79	3.5	4.5	.57	.15	.04	.03
14	.16	.17	.18	.15	.14	.81	4.0	4.2	.54	.15	.04	.03
15	.09	.18	.18	.15	.14	.71	4.8	3.9	.51	.15	.04	.04
16	.09	.18	.17	.16	.14	.57	6.2	3.6	.48	.14	.04	.05
17	.09	.64	.17	.16	.14	.48	6.9	3.4	.45	.14	.04	.07
18	.09	.49	.17	.16	.14	.48	5.6	3.1	.42	.13	.04	.08
19	.09	.26	.17	.16	.14	.48	4.7	2.9	.40	.13	.04	.10
20	.09	.22	.17	.16	.14	.45	4.5	2.8	.40	.11	.04	.13
21	.08	.20	.17	.16	.15	.45	4.5	2.6	.37	.11	.04	.11
22	.08	.18	.17	.15	.16	.48	4.4	2.5	.35	.10	.04	.11
23	.07	.18	.17	.15	.16	.58	4.9	2.2	.35	.10	.04	.11
24	.07	.17	.17	.15	.18	.78	5.4	2.1	.32	.10	.02	.07
25	.07	.18	.17	.15	.14	1.1	6.2	1.9	.30	.09	.02	.04
26	.07	.17	.17	.15	.15	1.4	6.4	1.8	.30	.09	.02	.03
27	.07	.17	.17	.15	.16	1.9	5.6	1.7	.28	.09	.02	.03
28	.07	.17	.17	.15	.16	2.6	5.5	1.6	.26	.08	.02	.03
29	.07	.17	.19	.15	---	3.2	5.3	1.5	.26	.08	.02	.03
30	.06	.17	.19	.15	---	3.6	5.5	1.3	.24	.08	.02	.03
31	.06	---	.19	.15	---	4.4	---	1.3	---	.08	.02	---
TOTAL	2.47	4.88	5.77	5.20	4.12	28.54	153.5	117.4	17.39	4.38	1.19	1.40
MEAN	.080	.16	.19	.17	.15	.92	5.12	3.79	.58	.14	.038	.047
MAX	.16	.64	.22	.28	.18	4.4	6.9	6.2	1.2	.24	.07	.13
MIN	.06	.06	.17	.15	.14	.16	3.3	1.3	.24	.08	.02	.02
AC-FT	4.9	9.7	11	10	8.2	57	304	233	34	8.7	2.4	2.8

WTR YR 1966 TOTAL 346.24 MEAN .95 MAX 6.9 MIN .02 AC-FT 687

11426110 ONION CREEK TRIBUTARY NO. 3 NEAR SODA SPRINGS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.03	.74	.35	.95	1.8	1.8	.82	8.5	8.0	.74	.14
2	.03	.03	.67	.32	.82	2.0	1.7	1.1	7.2	7.2	.74	.13
3	.03	.03	.67	.35	.78	2.1	1.6	1.5	7.5	6.5	.71	.14
4	.03	.03	.56	.35	.74	1.9	1.6	1.4	8.8	5.8	.67	.20
5	.03	.03	1.0	.32	.78	1.9	1.5	1.3	11	5.2	.64	.17
6	.03	.04	.78	.30	.86	1.9	1.4	1.7	11	4.6	.60	.14
7	.03	.05	.60	.30	.95	2.0	1.3	2.8	11	4.1	.57	.14
8	.03	.06	.51	.30	1.0	2.2	1.3	4.4	13	3.7	.57	.13
9	.03	.05	.45	.30	1.1	2.4	1.3	5.3	14	3.3	.54	.11
10	.03	.05	.45	.30	1.2	2.4	1.4	3.3	14	2.9	.54	.11
11	.03	.08	.45	.32	1.3	2.3	1.2	2.7	14	2.6	.51	.10
12	.03	.14	.43	.30	1.5	2.2	1.2	2.5	13	2.4	.48	.10
13	.03	.14	.42	.32	1.5	2.2	1.3	2.6	14	2.2	.48	.09
14	.03	.14	.40	.35	1.7	2.0	1.3	3.5	14	1.9	.45	.09
15	.03	.32	.40	.37	1.6	2.0	1.2	6.1	14	1.8	.48	.08
16	.03	.80	.40	.40	1.5	6.6	1.1	9.9	16	1.7	.48	.08
17	.03	.40	.40	.37	1.5	7.9	1.1	12	17	1.5	.34	.12
18	.03	.22	.40	.37	1.5	5.0	1.0	12	18	1.4	.26	.18
19	.03	.28	.40	.37	1.5	3.8	1.0	14	19	1.2	.24	.10
20	.03	1.1	.42	.37	1.5	3.1	.99	19	18	1.1	.22	.09
21	.03	.32	.42	.37	1.5	2.8	.95	22	17	1.1	.20	.08
22	.03	.30	.42	.40	1.5	2.7	.91	23	15	.99	.20	.08
23	.03	.26	.42	.40	1.6	2.6	.91	22	14	.95	.22	.08
24	.03	.22	.40	.40	1.6	2.5	.86	22	13	.86	.22	.08
25	.03	.22	.40	.37	1.5	2.3	.86	20	13	.82	.22	.08
26	.03	.22	.37	.40	1.5	2.2	.86	19	12	.74	.22	.07
27	.03	.24	.37	.64	1.5	2.1	.82	18	11	.74	.18	.06
28	.03	2.0	.35	.67	1.6	2.1	.78	16	10	.71	.17	.06
29	.03	2.2	.35	.90	---	1.9	.78	15	9.5	.67	.15	.06
30	.03	.95	.35	1.0	---	1.9	.74	13	8.8	.67	.15	.06
31	.03	---	.35	1.1	---	1.8	---	10	---	.74	.14	---
TOTAL	.93	10.95	14.75	13.38	36.58	82.6	34.76	307.92	386.3	78.09	12.33	3.15
MEAN	.030	.37	.48	.43	1.31	2.66	1.16	9.93	12.9	2.52	.40	.11
MAX	.03	2.2	1.0	1.1	1.7	7.9	1.8	23	19	8.0	.74	.20
MIN	.03	.03	.35	.30	.74	1.8	.74	.82	7.2	.67	.14	.06
AC-FT	1.8	22	29	27	73	164	69	611	766	155	24	6.2

CAL YR 1966 TOTAL 360.63 MEAN .99 MAX 6.9 MIN 0 AC-FT 715
WTR YR 1967 TOTAL 981.74 MEAN 2.69 MAX 23 MIN .03 AC-FT 1950

11426120 ONION CREEK TRIBUTARY NO. 5A NEAR SODA SPRINGS, CALIF.

LOCATION.--Lat 39°17'04", long 120°20'44", in SE¼NE¼ sec.1, T.16 N., R.14 E., Placer County, on right bank 1.1 miles upstream from Onion Creek Campground and 3.3 miles southeast of Soda Springs.

DRAINAGE AREA.--0.39 sq mi.

PERIOD OF RECORD.--October 1958 to September 1964, October 1965 to September 1966 (discontinued).

GAGE.--Water-stage recorder and 120° sharp-crested V-notch weir. Altitude of gage is 6,520 ft (from topographic map).

AVERAGE DISCHARGE.--7 years, 0.860 cfs (623 acre-ft per year).

EXTREMES.--Maximum discharge during water year 1966, 13.1 cfs Apr. 1 (gage height, 1.55 ft); minimum daily, 0.002 cfs Sept. 11-13.

Period of record: Maximum discharge, 135 cfs Jan. 31, 1963 (gage height, 3.96 ft); no flow for many days in 1959-63.

REMARKS.--Records excellent except those for period of no gage-height record Dec. 1, 1965, to Jan. 6, 1966, which are fair. No regulation or diversion. This station was operated in connection with studies to develop and test methods of managing forest and other lands for improved water yield.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.02	.27	.25	.15	.22	7.16	3.60	.60	.14	.04	.008
2	.04	.02	.28	.25	.15	.22	5.95	3.88	.57	.13	.04	.01
3	.04	.02	.29	.25	.15	.20	5.09	3.78	.54	.13	.03	.006
4	.04	.02	.30	.25	.14	.20	4.86	3.84	.54	.13	.03	.004
5	.05	.02	.30	.30	.14	.20	5.69	3.78	.51	.11	.02	.004
6	.06	.02	.30	.37	.14	.20	5.71	3.38	.48	.11	.02	.003
7	.04	.03	.30	.24	.14	.20	5.74	3.26	.45	.11	.02	.003
8	.04	.03	.28	.20	.14	.20	5.41	3.03	.45	.10	.02	.003
9	.04	.03	.27	.18	.14	.20	3.94	3.30	.45	.10	.02	.003
10	.04	.04	.26	.18	.14	.33	2.94	3.61	.42	.10	.02	.003
11	.04	.04	.26	.17	.14	.35	2.30	2.81	.40	.10	.01	.002
12	.04	.04	.26	.17	.14	.46	2.18	2.47	.37	.10	.01	.002
13	.06	.10	.26	.18	.14	1.19	2.53	2.45	.35	.09	.01	.002
14	.08	.20	.26	.18	.14	1.35	3.10	2.18	.32	.09	.01	.004
15	.06	.28	.25	.18	.14	.96	4.02	2.00	.30	.08	.01	.008
16	.05	.30	.24	.17	.17	.64	5.31	1.93	.28	.08	.01	.008
17	.04	1.20	.23	.17	.23	.54	5.52	1.78	.26	.08	.01	.008
18	.04	.90	.22	.17	.24	.54	4.07	1.71	.24	.07	.008	.01
19	.04	.50	.22	.17	.22	.54	3.27	1.81	.24	.07	.008	.008
20	.04	.40	.22	.17	.20	.54	3.07	1.70	.22	.07	.008	.01
21	.03	.37	.22	.17	.20	.57	3.27	1.53	.20	.06	.006	.01
22	.03	.34	.22	.17	.22	.62	3.19	1.33	.20	.06	.008	.008
23	.03	.30	.22	.17	.24	1.12	3.68	1.22	.20	.05	.01	.008
24	.03	.31	.22	.17	.24	1.66	4.31	1.22	.18	.05	.008	.008
25	.03	.35	.22	.15	.22	2.29	5.08	1.17	.18	.05	.006	.008
26	.03	.31	.22	.15	.20	2.90	4.74	1.08	.17	.05	.006	.01
27	.03	.29	.22	.15	.22	3.66	3.91	.97	.15	.05	.008	.01
28	.03	.27	.22	.15	.24	4.41	3.69	.82	.15	.04	.008	.02
29	.03	.26	.22	.15	---	4.96	3.61	.78	.14	.04	.006	.02
30	.02	.26	.23	.15	---	5.73	3.67	.71	.14	.04	.006	.02
31	.02	---	.25	.15	---	5.94	---	.67	---	.05	.006	---
TOTAL	1.23	7.27	7.73	5.93	4.97	43.14	127.01	67.80	9.70	2.53	.432	.221
MEAN	.040	.24	.25	.19	.18	1.39	4.23	2.19	.32	.082	.015	.007
MAX	.08	1.2	.30	.37	.24	5.9	7.16	3.9	.60	.14	.04	.02
MIN	.02	.02	.22	.15	.14	.20	2.18	.67	.14	.04	.006	.002
AC-FT	2.4	14	15	12	9.9	86	252	134	19	5.0	.9	.4

WTR YR 1966 TOTAL 277.96 MEAN .76 MAX 7.2 MIN .002 AC-FT 552

11426130 ONION CREEK TRIBUTARY NO. 2 NEAR SODA SPRINGS, CALIF.

LOCATION.--Lat 39°16'34", long 120°21'57", in SE¼SE¼ sec.2, T.16 N., R.14 E., Placer County, on right bank 0.2 mile upstream from confluence with Onion Creek and 3.4 miles southeast of Soda Springs.

DRAINAGE AREA.--0.48 sq mi.

PERIOD OF RECORD.--October 1957 to September 1964, October 1965 to September 1967 (discontinued).

GAGE.--Water-stage recorder and 120° sharp-crested V-notch weir. Altitude of gage is 6,160 ft (from topographic map).

AVERAGE DISCHARGE.--9 years, 1.23 cfs (890 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-67 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Apr. 1, 1966	9.46	1.36	Sept.17, 1966	.003
1967	June 20, 1967	30.6	2.18	Nov. 5, 1966	.006

Period of record: Maximum discharge, 116 cfs Jan. 31, 1963 (gage height, 3.72 ft); no flow for many days in 1957-62.

REMARKS.--Records excellent. This station was operated in connection with studies to develop and test methods of managing forests and other lands for improved water yield.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.02	.18	.20	.10	.15	6.03	3.99	.32	.05	.02	.01
2	.01	.02	.22	.20	.10	.15	5.69	4.05	.32	.05	.02	.008
3	.01	.02	.22	.20	.10	.14	5.16	4.16	.30	.05	.02	.008
4	.01	.02	.22	.20	.10	.14	4.94	3.99	.28	.05	.01	.008
5	.01	.01	.22	.23	.10	.14	5.83	3.87	.28	.05	.01	.008
6	.02	.01	.22	.30	.10	.14	6.14	3.38	.28	.05	.01	.008
7	.01	.02	.22	.24	.10	.17	6.36	3.20	.28	.04	.01	.008
8	.01	.02	.22	.17	.09	.17	6.08	3.02	.24	.04	.01	.01
9	.01	.02	.22	.14	.09	.20	5.09	3.06	.24	.04	.01	.008
10	.01	.03	.22	.11	.09	.40	4.40	3.56	.22	.04	.01	.004
11	.01	.03	.22	.10	.09	.51	3.58	2.77	.20	.03	.01	.006
12	.01	.03	.22	.10	.10	.54	3.29	2.30	.18	.03	.01	.006
13	.01	.03	.22	.10	.10	1.06	3.61	2.08	.17	.03	.01	.008
14	.04	.04	.22	.10	.10	1.54	4.15	1.81	.15	.03	.01	.01
15	.03	.04	.22	.10	.09	.84	4.78	1.62	.14	.03	.01	.01
16	.02	.03	.22	.11	.10	.57	6.06	1.45	.14	.03	.01	.006
17	.01	.14	.22	.11	.11	.48	6.74	1.29	.14	.03	.01	.003
18	.01	.38	.22	.11	.13	.45	5.33	1.18	.13	.02	.01	.006
19	.01	.24	.22	.11	.13	.45	4.18	1.04	.11	.02	.01	.008
20	.01	.22	.20	.11	.13	.45	3.87	.91	.11	.02	.01	.008
21	.01	.20	.20	.11	.14	.48	3.77	.86	.10	.02	.01	.006
22	.01	.18	.20	.10	.15	.54	3.77	.74	.09	.02	.01	.006
23	.01	.20	.20	.10	.15	.73	4.13	.67	.09	.02	.01	.006
24	.01	.20	.20	.10	.17	1.04	4.72	.60	.09	.02	.01	.006
25	.01	.20	.20	.10	.15	1.47	5.55	.54	.08	.02	.01	.006
26	.01	.18	.20	.10	.15	2.05	5.35	.51	.08	.02	.01	.006
27	.01	.18	.20	.10	.14	2.71	4.54	.45	.07	.03	.01	.006
28	.01	.18	.20	.10	.15	3.77	4.20	.42	.07	.04	.01	.006
29	.01	.18	.18	.10	---	4.73	4.00	.40	.07	.02	.01	.006
30	.02	.18	.20	.10	---	5.26	4.10	.37	.06	.01	.01	.008
31	.02	---	.20	.10	---	5.36	---	.35	---	.02	.01	---
TOTAL	.40	3.25	6.52	4.15	3.25	36.83	145.44	58.64	5.03	.97	.34	.213
MEAN	.013	.11	.21	.13	.12	1.19	4.85	1.89	.17	.031	.011	.007
MAX	.04	.38	.22	.30	.17	5.4	6.7	4.2	.32	.05	.02	.01
MIN	.01	.01	.18	.10	.09	.14	3.3	.35	.06	.01	.01	.003
AC-FT	.8	6.4	13	8.2	6.4	73	288	116	10.0	1.9	.7	.4

WTR YR 1966 TOTAL 265.35 MEAN .726 MAX 6.74 MIN .003 AC-FT 526

11426130 ONION CREEK TRIBUTARY NO. 2 NEAR SODA SPRINGS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.01	.56	.35	1.45	1.45	1.90	.86	6.37	3.70	.13	.02
2	.01	.01	.59	.35	1.13	1.62	1.85	1.04	5.21	3.20	.11	.02
3	.01	.008	.61	.35	1.04	1.62	1.75	1.39	5.40	2.72	.11	.02
4	.008	.008	.40	.37	.99	1.45	1.68	1.45	6.98	2.40	.10	.02
5	.01	.006	1.05	.37	.99	1.39	1.55	1.39	9.82	1.95	.09	.01
6	.01	.008	.71	.35	1.04	1.45	1.50	1.81	9.62	1.70	.08	.02
7	.01	.01	.51	.35	1.13	1.56	1.45	3.38	10.2	1.45	.08	.01
8	.01	.03	.42	.35	1.13	1.75	1.35	5.58	10.2	1.29	.07	.01
9	.01	.02	.37	.35	1.13	1.81	1.37	5.58	13.2	1.13	.07	.01
10	.01	.02	.40	.35	1.39	1.75	1.40	4.08	11.8	.99	.06	.01
11	.008	.03	.42	.37	1.56	1.62	1.36	3.11	11.2	.91	.06	.02
12	.008	.03	.45	.37	1.75	1.51	1.32	2.68	10.8	.78	.06	.02
13	.008	.03	.45	.42	1.88	1.45	1.45	2.94	11.6	.71	.05	.02
14	.008	.03	.42	.48	1.75	1.34	1.39	4.18	10.8	.64	.05	.02
15	.01	.06	.40	.57	1.39	1.44	1.29	7.14	10.9	.60	.05	.02
16	.01	.11	.42	.64	1.29	1.32	1.23	11.0	12.4	.57	.05	.02
17	.01	.05	.45	.60	1.29	9.05	1.23	13.7	13.0	.51	.04	.02
18	.008	.05	.48	.54	1.34	5.45	1.18	13.2	13.8	.45	.04	.05
19	.008	.06	.51	.51	1.34	3.87	1.13	13.8	12.4	.40	.04	.03
20	.01	.34	.54	.51	1.29	3.29	1.09	17.5	14.7	.37	.04	.02
21	.008	.13	.51	.51	1.23	3.20	1.04	20.3	11.4	.35	.03	.02
22	.008	.08	.51	.54	1.29	3.29	1.04	20.7	10.4	.30	.03	.03
23	.008	.05	.48	.48	1.29	3.11	.99	19.5	9.13	.28	.03	.03
24	.01	.05	.45	.48	1.29	2.85	.99	18.8	8.18	.26	.03	.02
25	.01	.05	.45	.48	1.23	2.68	.95	17.0	7.97	.24	.03	.01
26	.01	.05	.42	.62	1.18	2.52	.91	16.0	7.56	.22	.03	.01
27	.02	.05	.40	1.29	1.23	2.37	.91	14.9	6.55	.20	.03	.01
28	.01	1.86	.40	1.18	1.39	2.30	.86	13.8	5.90	.18	.03	.02
29	.01	2.86	.37	3.10	---	2.08	.82	12.5	5.18	.17	.02	.02
30	.01	.61	.37	2.57	---	2.05	.82	10.4	4.48	.15	.02	.02
31	.01	---	.37	2.01	---	2.00	---	8.46	---	.14	.02	---
TOTAL	.300	6.710	14.89	21.81	36.43	74.64	37.80	288.17	287.15	28.96	1.68	.58
MEAN	.010	.224	.480	.704	1.30	2.41	1.26	9.30	9.57	.934	.054	.019
MAX	.02	2.86	1.05	3.10	1.88	9.05	1.90	20.7	14.7	3.70	.13	.05
MIN	.008	.006	.37	.35	.99	1.32	.82	.86	4.48	.14	.02	.01
AC-FT	.6	13.3	29.5	43.3	72.3	148	75.0	572	570	57.4	3.3	1.2

CAL YR 1966 TOTAL 276.76 MEAN .758 MAX 6.74 MIN .003 AC-FT 549
WTR YR 1967 TOTAL 799.12 MEAN 2.19 MAX 20.7 MIN .006 AC-FT 1,590

11426140 ONION CREEK TRIBUTARY NO. 1 NEAR SODA SPRINGS, CALIF.

LOCATION.--Lat 39°16'30", long 120°21'58", in SE¼ sec.2 T.16 N., R.14 E., Placer County, on right bank 0.2 mile west of Onion Creek Campground and 3.4 miles southeast of Soda Springs.

DRAINAGE AREA.--0.19 sq mi.

PERIOD OF RECORD.--October 1957 to September 1964, October 1965 to September 1967 (discontinued).

GAGE.--Water-stage recorder and 120° sharp-crested V-notch weir. Altitude of gage is 6,200 ft (from topographic map).

AVERAGE DISCHARGE.--9 years, 0.421 cfs (305 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-67 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Apr. 17, 25, 1966	2.68	.82	Aug. 18, 19, 1966	.006
1967	June 19, 1967	9.99	1.39	Many days	.008

Period of record: Maximum discharge, 54.6 cfs Jan. 31, 1963 (gage height, 2.75 ft); no flow for many days in 1959-62.

REMARKS.--Records excellent. No regulation or diversion. This station was operated in connection with studies to develop and test methods of managing forests and other lands for improved water yield.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.02	.01	.02	.03	.05	1.18	1.62	.11	.02	.008	.008
2	.01	.02	.01	.02	.03	.05	1.18	1.75	.10	.02	.01	.008
3	.01	.02	.01	.02	.03	.05	1.13	2.01	.10	.02	.01	.008
4	.01	.02	.01	.02	.03	.05	1.04	1.94	.09	.02	.01	.01
5	.01	.02	.01	.02	.03	.05	1.39	1.88	.08	.02	.009	.01
6	.02	.01	.01	.11	.03	.05	1.51	1.62	.08	.02	.01	.02
7	.01	.01	.01	.06	.03	.05	1.62	1.56	.08	.02	.01	.02
8	.01	.01	.01	.05	.03	.05	1.56	1.56	.08	.02	.008	.02
9	.01	.01	.01	.04	.03	.06	1.34	1.56	.08	.02	.008	.02
10	.01	.01	.01	.04	.03	.17	1.09	1.94	.07	.02	.009	.02
11	.01	.02	.01	.04	.03	.13	.86	1.39	.06	.02	.009	.01
12	.01	.03	.01	.03	.03	.13	.82	1.13	.06	.02	.01	.01
13	.01	.03	.01	.03	.03	.24	.86	1.04	.05	.02	.01	.01
14	.04	.03	.01	.03	.03	.22	.99	.91	.05	.02	.01	.01
15	.03	.03	.01	.03	.03	.18	1.29	.78	.05	.02	.01	.01
16	.02	.02	.01	.03	.03	.14	1.81	.71	.05	.02	.01	.01
17	.01	.06	.01	.03	.03	.11	2.22	.64	.05	.02	.008	.01
18	.01	.05	.01	.03	.03	.10	1.75	.57	.05	.02	.006	.02
19	.01	.02	.01	.03	.03	.10	1.29	.51	.05	.02	.006	.02
20	.008	.02	.01	.03	.03	.10	1.18	.48	.04	.02	.008	.02
21	.01	.02	.01	.03	.03	.10	1.13	.40	.04	.02	.01	.02
22	.01	.02	.01	.03	.04	.11	1.13	.37	.04	.02	.01	.02
23	.02	.02	.01	.03	.05	.13	1.29	.30	.03	.01	.01	.02
24	.02	.02	.01	.03	.05	.20	1.56	.28	.03	.01	.01	.02
25	.03	.02	.01	.03	.05	.24	2.02	.24	.03	.01	.01	.01
26	.02	.02	.01	.03	.05	.32	2.01	.20	.03	.01	.01	.01
27	.02	.01	.01	.03	.05	.42	1.68	.18	.03	.01	.01	.01
28	.02	.01	.01	.03	.05	.54	1.51	.15	.03	.01	.01	.01
29	.02	.01	.01	.03	---	.67	1.45	.15	.03	.01	.01	.01
30	.02	.01	.01	.03	---	.78	1.56	.14	.03	.01	.008	.008
31	.02	---	.02	.03	---	.95	---	.13	---	.01	.008	---
TOTAL	.478	.62	.32	1.04	.97	6.54	41.45	28.14	1.70	.53	.285	.408
MEAN	.015	.021	.010	.034	.035	.21	1.38	.91	.057	.017	.009	.014
MAX	.04	.06	.02	.11	.05	.95	2.22	2.01	.11	.02	.01	.02
MIN	.008	.01	.01	.02	.03	.05	.82	.13	.03	.01	.006	.008
AC-FT	.9	1.2	.6	2.1	1.9	13	82	56	3.4	1.1	.6	.8

WTR YR 1966 TOTAL 82.50 MEAN .226 MAX 2.22 MIN .006 AC-FT 164

11426140 ONION CREEK TRIBUTARY NO. 1 NEAR SODA SPRINGS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.008	.008	.35	.06	.40	.32	.60	.30	2.30	2.08	.07	.01
2	.008	.008	.32	.06	.30	.35	.57	.35	1.94	1.81	.07	.01
3	.008	.008	.37	.06	.28	.37	.54	.45	1.94	1.45	.07	.02
4	.008	.008	.26	.05	.26	.35	.54	.48	2.45	1.18	.06	.02
5	.008	.008	.62	.06	.26	.32	.51	.42	3.87	.99	.06	.02
6	.008	.01	.35	.05	.24	.32	.48	.54	3.77	.86	.06	.01
7	.008	.02	.24	.05	.26	.32	.48	.91	3.67	.74	.07	.01
8	.008	.05	.18	.05	.26	.37	.48	1.45	4.52	.64	.07	.01
9	.008	.04	.15	.05	.26	.40	.48	1.81	4.62	.57	.07	.01
10	.01	.05	.14	.05	.28	.40	.51	1.29	4.40	.51	.06	.01
11	.01	.05	.15	.05	.30	.37	.45	.99	4.08	.45	.06	.01
12	.01	.05	.11	.06	.35	.35	.45	.86	4.08	.40	.06	.01
13	.01	.05	.11	.06	.40	.32	.45	.86	4.40	.32	.06	.01
14	.01	.05	.10	.07	.42	.30	.45	1.13	4.29	.32	.06	.01
15	.008	.07	.09	.08	.37	.32	.42	1.81	4.40	.28	.06	.01
16	.01	.09	.09	.09	.35	3.65	.40	2.94	4885	.26	.06	.01
17	.008	.02	.09	.09	.32	3.59	.40	3.87	5.58	.22	.05	.01
18	.008	.01	.09	.08	.32	2.08	.37	3.87	5.83	.20	.03	.03
19	.008	.03	.09	.08	.32	1.51	.37	4.18	6.10	.18	.03	.02
20	.008	.32	.09	.08	.30	1.23	.35	5.21	5.71	.17	.03	.01
21	.008	.10	.09	.09	.30	1.09	.35	6.23	5.45	.15	.02	.01
22	.008	.03	.08	.08	.30	1.04	.35	6.64	4.40	.14	.02	.01
23	.008	.02	.08	.07	.30	1.04	.32	6.23	3.97	.14	.02	.01
24	.008	.02	.08	.08	.30	.99	.32	6.19	3.97	.13	.03	.01
25	.008	.02	.07	.08	.28	.95	.32	5.45	3.97	.11	.02	.01
26	.008	.02	.07	.15	.28	.86	.30	5.45	3.67	.10	.02	.01
27	.008	.02	.08	.37	.28	.78	.30	5.09	3.20	.09	.02	.01
28	.008	.74	.07	.28	.30	.78	.30	4.62	2.94	.08	.02	.01
29	.008	.94	.06	.74	---	.74	.30	4.74	2.68	.08	.02	.01
30	.008	.35	.06	.64	---	.71	.30	3.58	2.45	.08	.02	.02
31	.008	---	.06	.54	---	.64	---	2.94	---	.08	.01	---
TOTAL	.260	3.210	4.79	4.40	8.59	26.86	12.46	90.79	119.60	14.81	1.38	.37
MEAN	.008	.11	.15	.14	.31	.86	.42	2.93	3.99	.478	.045	.012
MAX	.01	.94	.62	.74	.42	3.65	.60	6.64	6.10	2.08	.07	.03
MIN	.008	.008	.06	.05	.24	.30	.30	.30	1.94	.08	.01	.01
AC-FT	.5	6.4	9.5	8.7	17	53.3	25	180	237	29.4	2.7	.7

CAL YR 1966 TOTAL 89.32 MEAN .245 MAX 2.22 MIN .006 AC-FT 177

WTR YR 1967 TOTAL 287.00 MEAN .788 MAX 6.64 MIN .008 AC-FT 570

11426150 ONION CREEK NEAR SODA SPRINGS, CALIF.

LOCATION.--Lat 39°16'02", long 120°21'50", in SE¼NE¼ sec.11, T.16 N., R.14 E., Placer County, Tahoe National Forest, on right bank 0.3 mile upstream from unnamed tributary, 1 mile upstream from mouth, and 4.0 miles south of Soda Springs.

DRAINAGE AREA.--3.58 sq mi.

PERIOD OF RECORD.--August 1959 to September 1970.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,900 ft (from topographic map).

AVERAGE DISCHARGE.--11 years, 9.64 cfs (6,980 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (50 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Apr. 1, 1966	1800	*65	2.13	Oct. 2, 1967	1900	89	2.25	Dec. 21, 1969	0800	180	2.70
Apr. 16, 1966	1700	59	2.10	Feb. 20, 1968	0130	*102	2.29	Jan. 16, 1970	0630	464	3.18
Apr. 25, 1966	1600	54	2.07	Feb. 23, 1968	0500	79	2.20	Jan. 21, 1970	1700	*914	a3.64
				Apr. 10, 1968	1800	50	2.07	Jan. 23, 1970	2400	192	2.64
Nov. 28, 1966	1300	89	2.24					May 5, 1970	1700	53	2.12
Jan. 22, 1967	0600	104	2.30	Jan. 20, 1969	1600	56	2.08	May 17, 1970	1900	62	2.17
Mar. 16, 1967	1300	131	2.39	Apr. 21, 1969	1900	110	2.37				
May 21, 1967	1630	327	2.84	May 10, 1969	1700	*184	2.72				
June 19, 1967	1500	*366	2.91	May 23, 1969	1800	140	2.63				

a Maximum gage height for year, 3.82 ft Jan. 21, 1970, backwater from debris.

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Many days	.20	1969	Oct. 1-4, 7, 8, 1968	.22
1967	Sept.11-16, 1967	.60	1970	Sept.12, 27-30, 1970	.22
1968	Several days	.22			

Period of record: Maximum discharge, 1,750 cfs Dec. 23, 1964 (gage height, 4.98 ft in gage well, 6.82 ft, from floodmarks), from rating curve extended above 40 cfs on basis of slope-area measurement of peak flow; minimum daily, 0.10 cfs for several days in 1959, 1961.

REMARKS.--Records good. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.40	.30	1.6	1.3	1.3	1.3	43	27	6.3	1.0	.50	.30
2	.40	.40	1.7	1.3	1.1	1.3	38	27	5.8	1.1	.50	.30
3	.40	.50	1.7	1.3	1.1	1.3	35	28	5.4	1.0	.40	.20
4	.40	.50	2.1	1.3	1.1	1.3	34	28	4.6	1.0	.40	.20
5	.40	.50	2.1	1.4	1.1	1.3	38	27	4.3	1.0	.40	.20
6	.60	.50	2.3	2.3	1.1	1.3	41	27	3.6	.90	.40	.20
7	.40	.50	2.3	2.3	1.1	1.4	41	25	3.6	.80	.30	.20
8	.40	.70	2.3	2.1	1.1	1.6	39	25	3.6	.80	.30	.20
9	.40	.60	1.9	1.6	1.1	1.9	33	24	3.3	.80	.30	.20
10	.40	.60	1.7	1.4	1.1	3.3	27	30	3.0	.80	.30	.20
11	.40	.60	1.7	1.3	1.1	3.3	22	27	2.8	.70	.40	.20
12	.40	.70	1.7	1.3	1.1	3.6	22	24	2.5	.70	.30	.30
13	.40	1.1	1.6	1.3	1.1	3.6	22	20	2.3	.60	.30	.40
14	1.1	1.6	1.6	1.4	1.1	3.6	24	19	2.1	.70	.30	.60
15	.60	1.7	1.6	1.4	1.1	6.3	28	18	2.1	.70	.30	.60
16	.50	1.7	1.6	1.4	1.3	4.3	37	16	1.9	.70	.30	.70
17	.40	5.8	1.6	1.4	1.4	3.6	42	16	1.9	.70	.30	.70
18	.40	5.8	1.6	1.4	1.4	3.6	35	14	1.7	.70	.30	.90
19	.40	2.5	1.6	1.4	1.4	3.9	27	14	1.7	.60	.30	.90
20	.40	2.3	1.6	1.4	1.4	3.9	26	13	1.7	.60	.20	.90
21	.40	2.1	1.6	1.4	1.3	3.9	26	12	1.6	.60	.20	.90
22	.40	1.9	1.7	1.4	1.3	4.3	26	12	1.4	.60	.30	.90
23	.40	1.7	1.6	1.4	1.4	6.3	26	11	1.4	.50	.20	.90
24	.40	1.7	1.7	1.3	1.3	8.2	31	10	1.4	.50	.20	.90
25	.30	2.1	1.9	1.3	1.3	9.9	34	9.9	1.3	.50	.20	.90
26	.30	1.7	1.7	1.3	1.3	14	34	9.9	1.3	.50	.20	.90
27	.30	1.6	1.3	1.3	1.3	17	30	9.4	1.1	.50	.20	.90
28	.30	1.4	1.3	1.3	1.3	20	28	9.4	1.1	.50	.20	.90
29	.30	1.6	1.3	1.3	---	24	27	8.2	1.1	.40	.30	.80
30	.30	1.6	1.3	1.3	---	26	27	7.7	1.0	.40	.30	.80
31	.30	---	1.3	1.3	---	31	---	7.2	---	.60	.30	---
TOTAL	12.90	46.30	52.6	44.6	34.1	220.3	943	555.7	76.9	21.50	9.40	17.20
MEAN	.42	1.54	1.70	1.44	1.22	7.11	31.4	17.9	2.56	.69	.30	.57
MAX	1.1	5.8	2.3	2.3	1.4	31	43	30	6.3	1.1	.50	.90
MIN	.30	.30	1.3	1.3	1.1	1.3	22	7.2	1.0	.40	.20	.20
AC-FT	26	92	104	88	68	437	1870	1100	153	43	19	34

CAL YR 1965 TOTAL 3725.50 MEAN 10.2 MAX 94 MIN .30 AC-FT 7390
WTR YR 1966 TOTAL 2034.50 MEAN 5.57 MAX 43 MIN .20 AC-FT 4040

11426150 ONION CREEK NEAR SODA SPRINGS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.80	1.0	6.7	2.5	8.8	7.7	11	5.8	34	27	3.3	.80
2	.80	1.0	6.3	2.3	7.7	8.8	11	7.2	26	25	3.0	.80
3	.80	1.0	6.3	2.3	6.7	8.8	10	9.9	31	22	3.0	.80
4	.80	1.1	4.6	2.3	5.8	7.7	10	9.4	37	19	2.8	1.1
5	.90	1.1	9.4	2.3	5.8	7.2	9.9	9.4	49	18	2.8	1.0
6	.90	1.3	7.2	2.3	6.3	8.2	9.9	15	52	17	3.0	.80
7	.90	1.4	5.0	2.3	6.3	8.8	9.4	21	56	16	3.0	.70
8	.90	1.4	3.9	2.3	6.3	9.9	9.4	34	69	16	3.0	.70
9	.90	1.3	3.6	2.3	6.7	10	8.8	33	82	16	2.3	.70
10	.90	1.4	3.9	2.3	7.2	9.4	8.8	22	75	16	1.1	.70
11	1.0	1.6	3.9	2.3	8.2	9.9	8.2	18	71	16	1.1	.60
12	1.0	1.7	3.9	2.3	6.7	10	8.2	16	69	16	1.1	.60
13	1.0	1.7	3.9	2.3	9.9	12	8.2	18	77	15	1.0	.60
14	1.0	1.6	3.3	2.6	9.4	6.7	8.2	24	73	15	1.0	.60
15	1.0	3.0	3.6	3.0	8.2	6.7	7.7	42	77	14	1.0	.60
16	1.0	7.2	3.6	3.3	7.7	82	7.2	71	79	14	1.0	.60
17	1.0	5.0	3.6	3.3	7.2	63	7.7	89	92	12	1.0	.70
18	1.0	2.5	3.6	3.3	8.2	37	8.2	89	104	10	1.0	2.5
19	1.0	3.0	3.6	3.0	8.2	24	6.7	99	124	9.9	1.0	.90
20	1.0	8.8	3.9	3.6	7.2	19	6.7	131	99	8.8	1.0	.70
21	1.0	3.3	3.6	13	7.2	19	6.7	178	89	7.7	.90	.70
22	1.0	2.8	3.3	69	7.2	19	6.7	170	75	5.4	.90	.70
23	1.0	2.1	3.3	19	7.7	18	6.3	156	61	4.3	1.1	.70
24	1.0	1.9	3.3	5.8	7.2	16	6.3	141	59	3.3	1.0	1.0
25	1.0	1.7	3.3	3.3	6.7	15	5.8	104	59	3.0	1.0	.90
26	1.0	1.7	3.0	3.6	6.3	14	5.8	110	52	2.8	1.1	.70
27	1.0	1.7	3.0	5.8	6.7	13	5.8	92	45	3.0	1.0	.70
28	1.0	33	3.0	5.4	7.7	12	5.4	79	42	3.3	.80	.70
29	1.0	25	2.5	15	---	12	5.4	73	37	3.6	.80	.70
30	1.0	7.7	2.5	14	---	12	5.4	57	34	3.9	.80	.70
31	1.0	---	2.5	12	---	12	---	42	---	3.6	.80	---
TOTAL	29.60	129.0	127.1	218.1	205.2	518.8	234.8	1965.7	1929	366.6	47.70	24.00
MEAN	.95	4.30	4.10	7.04	7.33	16.7	7.83	63.4	64.3	11.8	1.54	.80
MAX	1.0	33	9.4	69	9.9	82	11	178	124	27	3.3	2.5
MIN	.80	1.0	2.5	2.3	5.8	6.7	5.4	5.8	26	2.8	.80	.60
AC-FT	59	256	252	433	407	1030	466	3900	3830	727	95	48

CAL YR 1966 TOTAL 2208.40 MEAN 6.05 MAX 43 MIN .20 AC-FT 4380
WTR YR 1967 TOTAL 5795.60 MEAN 15.9 MAX 178 MIN .60 AC-FT 11500

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.76	.57	1.1	1.7	3.0	19	35	28	7.2	1.3	.57	.36
2	8.2	.57	.99	1.7	3.2	19	22	28	6.7	1.3	.49	.36
3	3.1	.57	.99	1.9	3.9	20	16	31	6.3	1.1	.49	.31
4	1.1	.57	1.1	1.6	3.3	19	18	30	5.4	1.3	.49	.31
5	1.3	.57	1.3	1.6	3.0	19	17	25	5.4	1.3	.42	.31
6	.87	.57	1.1	1.4	2.8	16	17	22	5.0	1.1	.36	.26
7	.76	.57	1.3	1.4	2.8	15	18	21	5.4	1.1	.36	.26
8	.66	.57	.99	1.4	2.8	14	19	20	4.6	.99	.36	.26
9	.57	.57	1.1	1.4	3.0	13	22	19	4.3	.99	.31	.26
10	.57	.57	1.1	1.4	3.0	12	30	18	3.9	.87	.31	.26
11	.57	.66	1.3	1.7	3.0	12	34	16	3.9	.76	.36	.26
12	.57	.66	1.3	1.4	3.3	10	28	15	3.6	.76	.36	.26
13	.57	.66	1.3	1.3	3.3	9.9	27	14	3.3	.87	.36	.26
14	.57	2.0	1.2	3.7	3.0	9.4	30	15	3.0	.87	.36	.26
15	.57	.99	1.2	17	2.8	9.4	27	14	3.0	.76	.36	.31
16	.49	.87	1.3	5.8	2.8	9.9	24	14	2.5	.66	.49	.22
17	.49	.87	1.3	3.9	6.6	9.4	20	14	2.3	.66	.66	.22
18	.49	.99	1.3	3.0	6.7	8.2	19	14	2.3	.66	.57	.22
19	.49	1.7	1.1	3.0	20	7.7	18	14	2.3	.66	11	.22
20	.57	3.3	1.1	3.9	57	8.2	18	15	2.1	.66	1.6	.36
21	.57	1.7	1.1	3.6	33	9.4	18	13	1.9	.66	.76	.31
22	.66	1.1	1.1	3.6	26	10	18	12	1.7	.57	.66	.31
23	.66	1.1	1.3	3.6	65	12	18	11	2.1	.66	.57	.22
24	.57	1.1	1.4	4.3	30	12	19	10	1.7	.49	.57	.22
25	.66	.99	1.9	3.9	23	12	21	11	1.6	.42	.57	.22
26	.66	.87	2.8	3.3	23	12	24	11	1.4	.49	.49	.22
27	.66	.87	4.0	3.1	23	13	24	11	1.4	.49	.42	.22
28	.66	.99	2.8	3.0	22	20	26	11	1.3	.49	.36	.22
29	.66	.87	2.1	2.9	21	28	30	9.4	1.3	.49	.36	.26
30	.57	1.4	1.9	2.8	---	32	30	8.2	1.1	.42	.36	.22
31	.57	---	1.7	2.9	---	30	---	7.7	---	.57	.36	---
TOTAL	30.17	29.39	45.57	97.2	405.3	450.5	687	502.3	98.0	24.42	25.76	7.96
MEAN	.97	.98	1.47	3.14	14.0	14.5	22.9	16.2	3.27	.79	.83	.27
MAX	8.2	3.3	4.0	17	65	32	35	31	7.2	1.3	11	.36
MIN	.49	.57	.99	1.3	2.8	7.7	16	7.7	1.1	.42	.31	.22
AC-FT	60	58	90	193	804	894	1360	996	194	48	51	16

CAL YR 1967 TOTAL 5615.03 MEAN 15.4 MAX 178 MIN .49 AC-FT 11140
WTR YR 1968 TOTAL 2403.57 MEAN 6.57 MAX 65 MIN .22 AC-FT 4770

11426150 ONION CREEK NEAR SODA SPRINGS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.22	.66	1.7	1.4	6.3	3.6	37	39	66	7.5	.95	.38
2	.22	7.0	1.9	1.4	5.8	3.6	28	37	66	6.7	.95	.38
3	.22	13	1.7	1.6	5.4	3.6	22	28	64	5.9	.95	.38
4	.22	4.2	1.7	2.5	5.4	3.6	22	26	59	5.6	.85	.38
5	.26	2.8	1.7	2.8	5.4	3.6	23	41	56	5.2	.85	.38
6	.26	2.1	1.7	3.3	5.4	3.6	18	65	49	4.8	.85	.38
7	.22	2.1	1.7	2.8	5.0	3.6	17	84	42	4.5	.85	.38
8	.22	2.8	1.9	2.5	5.0	3.6	17	96	39	4.2	.85	.38
9	.26	2.8	1.7	2.3	5.0	3.6	18	113	33	3.9	.76	.38
10	.31	1.7	2.1	2.1	4.6	3.3	19	118	28	3.4	.76	.33
11	.26	1.7	2.1	2.1	4.6	3.3	26	129	29	3.2	.68	.33
12	2.8	7.6	2.1	2.1	4.3	3.3	34	121	26	3.2	.61	.33
13	4.1	2.5	2.1	2.1	4.3	3.3	34	101	27	2.7	.61	.33
14	1.9	2.1	2.1	2.3	4.3	3.0	27	88	30	2.3	.54	.33
15	1.8	2.1	2.6	2.1	4.3	3.6	24	76	29	2.1	.54	.29
16	1.3	2.1	3.1	2.1	3.9	4.3	26	78	28	2.1	.54	.29
17	.99	2.8	1.7	2.1	3.6	3.9	34	94	24	2.1	.54	.29
18	.66	11	1.7	2.1	3.6	3.9	39	96	37	2.1	.54	.29
19	.57	5.8	1.7	21	3.6	3.9	44	78	25	2.0	.54	.29
20	.57	3.9	1.6	46	3.6	5.0	51	74	21	2.0	.54	.29
21	.57	3.3	1.7	23	3.6	4.6	68	78	18	1.8	.54	.29
22	.57	3.9	1.4	13	3.9	5.4	68	88	16	1.7	.49	.29
23	.49	3.3	1.4	9.3	3.9	6.3	58	96	16	1.6	.49	.29
24	.49	2.5	1.6	7.7	4.3	6.7	35	88	15	1.5	.49	.29
25	.49	2.5	1.5	8.6	4.3	8.2	28	80	14	1.5	.49	.29
26	.49	2.3	1.5	20	3.9	12	25	72	12	1.4	.49	.29
27	.49	2.3	1.4	14	3.6	15	26	72	11	1.4	.43	.29
28	.49	2.1	1.4	9.9	3.6	18	35	64	10	1.3	.43	.29
29	.57	2.1	1.4	8.2	---	22	35	69	10	1.3	.43	.29
30	.87	1.9	1.4	7.2	---	32	38	72	9.0	1.2	.43	.29
31	.66	---	1.4	6.7	---	39	---	74	---	1.0	.38	---
TOTAL	23.54	106.96	54.7	234.3	124.5	242.4	976	2435	909.0	91.2	19.39	9.71
MEAN	.76	3.57	1.76	7.56	4.45	7.82	32.5	78.5	30.3	2.94	.63	.32
MAX	4.1	13	3.1	46	6.3	39	68	129	66	7.5	.95	.38
MIN	.22	.66	1.4	1.4	3.6	3.0	17	26	9.0	1.0	.38	.29
AC-FT	47	212	108	465	247	481	1940	4830	1800	181	38	19

CAL YR 1968 TOTAL 2485.20 MEAN 6.79 MAX 65 MIN .20 AC-FT 4930
WTR YR 1969 TOTAL 5226.70 MEAN 14.3 MAX 129 MIN .22 AC-FT 10370

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.33	.43	.54	3.9	16	11	16	19	18	1.8	.59	.22
2	.33	.43	.49	3.9	15	10	18	24	18	1.8	.59	.22
3	.33	.43	.43	3.4	14	9.5	18	31	16	1.7	.59	.25
4	.33	.43	.49	3.4	15	9.5	19	36	15	1.5	.51	.29
5	.33	.54	.49	3.4	14	9.5	21	39	13	1.4	.51	.33
6	.33	.68	.49	3.2	14	9.1	23	36	12	1.2	.51	.33
7	.33	.68	.43	4.5	15	8.9	24	31	10	1.2	.51	.33
8	.38	.76	.43	5.9	15	7.8	24	28	10	1.2	.44	.29
9	.38	1.2	.43	8.9	15	7.3	25	33	13	1.2	.44	.29
10	.38	1.4	.49	10	14	6.8	25	30	8.3	1.2	.38	.29
11	.38	1.7	.49	9.4	14	6.3	25	24	6.8	1.2	.38	.25
12	.38	1.7	.54	9.4	15	6.8	24	23	6.8	1.1	.38	.25
13	.38	1.6	.49	9.4	14	8.9	22	25	7.3	.98	.38	.25
14	.38	1.2	.68	10	13	14	19	32	5.5	.86	.29	.29
15	5.4	1.2	.61	10	12	13	18	35	5.1	.86	.33	.29
16	5.5	1.4	.54	193	11	13	17	42	4.8	.86	.33	.29
17	1.2	.95	.54	46	12	13	16	48	4.5	.86	.29	.29
18	.76	.85	.61	23	11	11	16	46	4.5	.76	.29	.25
19	1.3	.85	4.6	26	11	9.5	15	41	4.5	.76	.29	.25
20	1.2	.85	37	47	9.5	11	15	32	4.2	.76	.29	.29
21	.95	.85	58	462	9.5	12	13	32	3.9	.67	.29	.29
22	.68	.76	10	256	9.5	15	13	32	3.3	.76	.29	.29
23	.54	.68	6.7	105	9.5	16	13	30	3.1	.76	.29	.29
24	.54	.68	19	90	9.5	20	13	28	2.9	.67	.29	.25
25	.54	.61	21	49	9.5	20	15	28	2.7	.67	.25	.25
26	.54	.61	11	38	10	19	15	28	3.3	.67	.25	.25
27	.54	.54	7.5	38	11	18	13	25	3.1	.59	.25	.22
28	.49	.61	6.3	28	11	19	13	22	2.9	.59	.25	.22
29	.49	.54	5.2	22	---	19	12	21	2.5	.51	.25	.22
30	.49	.54	4.5	20	---	16	15	20	2.3	.51	.25	.22
31	.49	---	3.9	18	---	15	---	19	---	.51	.25	---
TOTAL	26.62	25.70	203.91	1559.7	349.0	384.9	535	940	217.3	30.11	11.23	8.04
MEAN	.86	.86	6.58	50.3	12.5	12.4	17.8	30.3	7.24	.97	.36	.27
MAX	5.5	1.7	58	462	16	20	25	48	18	1.8	.59	.33
MIN	.33	.43	.43	3.2	9.5	6.3	12	19	2.3	.51	.25	.22
AC-FT	53	51	404	3090	692	763	1060	1860	431	60	22	16

CAL YR 1969 TOTAL 5298.03 MEAN 14.5 MAX 129 MIN .30 AC-FT 10510
WTR YR 1970 TOTAL 4291.51 MEAN 11.8 MAX 462 MIN .22 AC-FT 8510

11426190 LAKE VALLEY CANAL NEAR EMIGRANT GAP, CALIF.

LOCATION.--Lat 39°17'58", long 120°39'11", in NE¼NW¼ sec.32, T.17 N., R.12 E., Placer County, Tahoe National Forest, on right bank 0.2 mile upstream from inlet to Carpenter Flat Siphon and 1 mile east of Emigrant Gap.

PERIOD OF RECORD.--October 1964 to September 1970.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,360 ft (from topographic map).

AVERAGE DISCHARGE.--6 years, 10.5 cfs (7,610 acre-ft per year).

EXTREMES.--Period of record: Maximum daily discharge, 38 cfs Nov. 18, 1965; no flow for several months in each year.

REMARKS.--Canal diverts from right bank of North Fork of North Fork American River 2.7 miles below Lake Valley Reservoir to Drum Canal in the Bear River basin. See schematic diagrams of Bear River and Yuba River basins elsewhere in this report.

COOPERATION.--Water-stage recorder graph and 13 discharge measurements for the water years 1966-67 furnished by Pacific Gas & Electric Co., in connection with a Federal Power Commission project. Records for the water years 1968-70 collected by Pacific Gas & Electric Co., under general supervision of the Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	32	16					0	0	10	28	26
2	16	32	0					0	0	11	28	26
3	32	32	0					0	0	11	28	26
4	33	32	0					0	0	11	27	26
5	32	32	0					0	0	11	27	26
6	32	32	0					18	0	11	27	26
7	29	32	0					35	0	11	28	26
8	30	32	0					34	0	11	28	27
9	30	32	0					34	0	11	28	28
10	32	32	0					32	0	11	28	28
11	32	32	0					28	0	11	28	28
12	32	32	0					26	0	11	27	28
13	32	32	0					26	0	11	27	27
14	33	32	0					26	0	11	26	14
15	32	32	0					26	0	11	25	0
16	30	32	0					26	10	11	24	0
17	31	34	0					24	10	11	28	0
18	31	38	0					17	10	11	27	0
19	32	33	0					16	10	6.1	27	0
20	33	32	0					6.9	10	0	27	0
21	34	32	0					6.6	10	2.6	27	.80
22	32	32	0					6.6	10	11	27	27
23	32	32	0					6.4	10	11	27	27
24	32	32	0					6.4	10	11	27	27
25	31	32	0					6.4	10	11	27	27
26	32	32	0					5.7	10	17	27	27
27	32	32	0					4.0	10	26	26	27
28	32	33	0					0	10	27	26	27
29	32	33	0		---			0	10	27	26	27
30	32	33	0		---			0	10	28	26	27
31	32	---	0		---		---	0	---	28	26	---
TOTAL	937	972	16	0	0	0	0	417.0	150	402.7	835	605.80
MEAN	30.2	32.4	.52	0	0	0	0	13.5	5.00	13.0	26.9	20.2
MAX	34	38	16	0	0	0	0	35	10	28	28	28
MIN	0	32	0	0	0	0	0	0	0	0	24	0
AC-FT	1860	1930	32	0	0	0	0	827	298	799	1660	1200

CAL YR 1965 TOTAL 2089.70 MEAN 5.73 MAX 38 MIN 0 AC-FT 4140
WTR YR 1966 TOTAL 4335.50 MEAN 11.9 MAX 38 MIN 0 AC-FT 8600

11426190 LAKE VALLEY CANAL NEAR EMIGRANT GAP, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	26								0	31	31
2	27	26								0	31	31
3	27	26								0	31	31
4	27	28								0	31	31
5	27	28								0	31	31
6	27	28								0	31	31
7	27	28								0	31	31
8	27	28								0	31	31
9	26	28								0	31	31
10	26	28								0	31	31
11	26	28								0	31	31
12	26	27								0	31	31
13	26	27								0	31	31
14	26	27								0	31	31
15	26	28								0	31	18
16	26	28								0	31	.60
17	26	27								0	31	8.8
18	26	27								0	31	31
19	26	27								0	31	31
20	26	29								0	30	31
21	26	21								0	30	31
22	26	0								0	30	31
23	26	0								0	30	31
24	25	0								0	30	31
25	25	0								0	30	31
26	25	0								0	30	30
27	25	0								0	31	30
28	25	0								14	31	31
29	25	0			---					32	31	31
30	26	0			---					31	31	31
31	26	---			---		---		---	31	31	---
TOTAL	808	570	0	0	0	0	0	0	0	108	954	862.40
MEAN	26.1	19.0	0	0	0	0	0	0	0	3.48	30.8	28.7
MAX	27	29	0	0	0	0	0	0	0	32	31	31
MIN	25	0	0	0	0	0	0	0	0	0	30	.60
AC-FT	1600	1130	0	0	0	0	0	0	0	214	1890	1710

CAL YR 1966 TOTAL 3788.50 MEAN 10.4 MAX 35 MIN 0 AC-FT 7510
WTR YR 1967 TOTAL 3302.40 MEAN 9.05 MAX 32 MIN 0 AC-FT 6550

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	30						1.5	23	30	30	28
2	.07	30						20	20	29	30	28
3	0	30						28	19	29	30	28
4	0	29						27	17	29	30	19
5	0	28						27	10	29	30	.86
6	0	28						28	9.4	29	30	.01
7	0	28						26	9.3	29	30	0
8	0	28						21	9.1	29	30	0
9	0	28						17	9.0	30	30	0
10	0	28						15	8.7	30	30	0
11	0	28						15	8.0	30	30	0
12	0	28						15	5.8	30	30	0
13	0	28						19	2.0	30	30	0
14	0	28						22	1.9	30	30	0
15	0	28						22	1.7	30	30	0
16	6.5	28						24	1.5	30	30	0
17	32	28						24	1.3	30	30	0
18	32	28						27	1.1	30	30	0
19	32	28						31	1.0	30	30	0
20	32	28						31	1.0	30	30	0
21	32	28						31	1.0	30	30	7.8
22	32	28						29	.91	30	30	25
23	32	28						27	.89	30	30	31
24	32	28						25	.78	30	30	29
25	32	28						25	.75	30	30	29
26	31	28						23	9.8	30	28	29
27	31	28						22	30	30	28	29
28	30	28						22	29	30	29	29
29	30	14						24	30	30	29	29
30	30	0			---			26	30	30	29	29
31	30	---			---		---	26	---	30	29	---
TOTAL	496.57	805	0	0	0	0	0	720.5	292.93	923	922	370.67
MEAN	16.0	26.8	0	0	0	0	0	23.2	9.76	29.8	29.7	12.4
MAX	32	30	0	0	0	0	0	31	30	30	30	31
MIN	0	0	0	0	0	0	0	1.5	.75	29	28	0
AC-FT	985	1600	0	0	0	0	0	1430	581	1830	1830	735

CAL YR 1967 TOTAL 3225.97 MEAN 8.84 MAX 32 MIN 0 AC-FT 6400
WTR YR 1968 TOTAL 4530.67 MEAN 12.4 MAX 32 MIN 0 AC-FT 8990

11426190 LAKE VALLEY CANAL NEAR EMIGRANT GAP, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	28	3.7						0	0	29	29
2	27	26	.07						0	0	29	29
3	27	25	.09						0	3.0	29	29
4	27	27	.09						0	9.5	28	29
5	27	29	.09						0	9.9	28	29
6	27	29	.09						0	10	28	29
7	27	28	.09						0	16	28	16
8	28	28	.06						0	20	28	.10
9	28	28	.02						0	20	28	0
10	28	27	0						0	20	29	0
11	28	28	0						0	26	29	0
12	28	29	0						0	30	29	0
13	27	27	0						0	30	29	0
14	27	27	0						0	29	29	0
15	28	27	0						0	29	29	0
16	27	27	0						18	28	29	0
17	27	27	0						30	29	29	0
18	26	28	0						30	29	29	0
19	26	27	0						29	29	29	9.0
20	27	27	0						28	29	29	27
21	27	27	0						27	29	29	29
22	27	26	0						28	29	29	29
23	27	26	0						9.3	29	29	29
24	26	27	0						.01	29	29	30
25	26	25	0						0	29	29	29
26	26	24	0						0	29	29	29
27	27	24	0						0	29	29	29
28	28	23	0						0	29	29	29
29	29	22	0		---				0	29	29	29
30	29	15	0		---				0	29	29	29
31	28	---	0		---		---		---	29	29	---
TOTAL	844	788	4.30	0	0	0	0	0	199.31	715.4	893	517.10
MEAN	27.2	26.3	.14	0	0	0	0	0	6.64	23.1	28.8	17.2
MAX	29	29	3.7	0	0	0	0	0	30	30	29	30
MIN	26	15	0	0	0	0	0	0	0	0	28	0
AC-FT	1670	1560	8.5	0	0	0	0	0	395	1420	1770	1030

CAL YR 1968 TOTAL 4865.50 MEAN 13.3 MAX 31 MIN 0 AC-FT 9650
WTR YR 1969 TOTAL 3961.11 MEAN 10.9 MAX 30 MIN 0 AC-FT 7860

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	28	26				0	16	15	32	30	29
2	28	28	25				0	16	4.0	32	30	29
3	28	28	24				0	16	1.5	32	30	29
4	29	28	24				0	15	1.3	31	30	29
5	29	28	23				0	24	1.0	31	30	29
6	29	28	23				0	29	1.0	31	30	29
7	29	28	22				0	28	1.1	18	30	30
8	29	28	21				0	29	1.2	.35	30	30
9	29	28	7.2				0	29	1.2	.29	29	30
10	29	28	0				0	29	1.1	.09	29	30
11	28	28	0				0	28	1.1	.09	29	30
12	28	28	0				0	28	1.2	.03	29	30
13	29	27	0				0	28	1.1	9.6	29	19
14	29	29	0				0	29	1.2	30	30	0
15	28	29	0				0	29	1.1	31	29	0
16	27	29	0				0	29	1.1	30	29	0
17	26	29	0				0	30	22	30	29	0
18	26	28	0				0	30	32	30	29	0
19	26	27	0				0	30	31	30	29	0
20	28	26	0				0	29	31	29	29	0
21	28	26	0				0	29	31	29	30	0
22	28	26	0				0	28	31	29	30	0
23	28	27	0				0	29	32	29	30	0
24	28	27	0				0	29	32	29	30	0
25	28	28	0				0	29	32	29	30	0
26	28	28	0				0	29	31	29	30	12
27	28	27	0				0	28	31	29	30	31
28	28	27	0				0	25	31	29	29	32
29	28	26	0		---		0	21	31	30	29	32
30	28	26	0		---		11	21	31	30	29	31
31	28	---	0		---		---	21	---	30	29	---
TOTAL	871	828	195.2	0	0	0	11	810	464.2	749.45	915	511
MEAN	28.1	27.6	6.30	0	0	0	.37	26.1	15.5	24.2	29.5	17.0
MAX	29	29	26	0	0	0	11	30	32	32	30	32
MIN	26	26	0	0	0	0	0	15	1.0	.03	29	0
AC-FT	1730	1640	387	0	0	0	22	1610	921	1490	1810	1010

CAL YR 1969 TOTAL 4219.00 MEAN 11.6 MAX 30 MIN 0 AC-FT 8370
WTR YR 1970 TOTAL 5354.85 MEAN 14.7 MAX 32 MIN 0 AC-FT 10620

11426200 NORTH FORK FORBES CREEK NEAR DUTCH FLAT, CALIF.

LOCATION.--Lat 39°08'37", long 120°45'30", in SE¼ sec.17, T.15 N., R.11 E., Placer County, Tahoe National Forest, on right bank 0.2 mile downstream from Big Reservoir and 6.0 miles southeast of Dutch Flat.

DRAINAGE AREA.--1.68 sq mi.

PERIOD OF RECORD.--July 1956 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 3,980 ft (from topographic map).

AVERAGE DISCHARGE.--14 years, 4.68 cfs (3,390 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Nov. 17, 1965	9.8	2.38	Several days	0
1967	Mar. 25, 1966	100	3.58	Many days	.30
1968	Many days	13	2.38	do.	.30
1969	Jan. 21, 1969	339	4.52	July 13, 14, 1969	.30
1970	Jan. 22, 1970	377	4.76	Many days	.30

Period of record: Maximum discharge, 377 cfs Jan. 22, 1970 (gage height, 4.76 ft); no flow for many days in 1964-66.

Maximum stage known, 6.40 ft probably Dec. 23, 1955, from floodmarks (discharge unknown).

REMARKS.--No gage-height record Jan. 23 to Mar. 15, 1966. Flow regulated by Big Reservoir (capacity, 2,200 acre-ft). Some diversion above station for mining.

COOPERATION.--*Records furnished by Bureau of Reclamation and reviewed by Geological Survey.*

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	0	1.0	1.3	.70	2.4	.60	.80	2.9	2.0	1.7	.80
2	.10	0	1.0	1.0	.60	2.0	.60	.80	2.5	2.0	1.7	.80
3	0	.10	1.0	.90	.50	1.8	.60	.80	2.3	2.0	1.7	.80
4	0	.10	1.1	1.0	1.6	1.6	.60	.80	2.3	2.0	1.7	.80
5	.10	.10	1.0	4.6	3.5	1.5	.60	.80	2.3	2.0	1.7	.80
6	0	.10	1.0	5.3	8.0	1.3	.60	.80	2.3	2.0	1.7	.70
7	0	.10	1.0	3.7	5.8	1.1	.60	.80	2.3	2.0	1.7	.70
8	.10	.20	1.0	3.5	4.0	1.0	.60	.80	2.3	2.0	1.7	.70
9	0	.10	.90	3.4	3.1	.90	.60	.80	2.2	2.0	1.7	.60
10	0	0	1.0	3.1	2.5	.90	.70	.80	2.2	2.0	1.6	.60
11	.10	.20	1.0	2.9	2.2	.80	.80	.80	2.2	2.0	1.5	.70
12	.40	.20	1.2	2.7	1.9	.80	.80	.80	2.2	2.0	1.4	.70
13	.10	.40	1.0	2.7	1.6	.80	.80	.80	2.2	1.9	1.4	.70
14	.20	1.5	.90	2.6	1.3	.80	.70	.80	2.2	1.9	.90	.70
15	.20	.50	.80	2.7	1.0	.80	.70	.80	2.2	1.9	.50	.70
16	.10	.50	.70	2.7	.80	.80	.70	.80	2.2	1.9	.40	.80
17	.10	2.5	.70	2.6	.70	.70	.70	.80	2.2	1.8	.40	.80
18	.10	5.1	.70	2.6	.70	.70	.70	.80	2.1	1.8	.40	.80
19	.10	2.6	.70	2.5	.70	.70	.70	.80	2.1	1.8	.50	.80
20	.10	1.4	.70	2.4	1.2	.70	.70	.80	2.1	1.8	.90	.80
21	.10	1.0	.70	2.3	1.8	.70	.70	.80	2.1	1.8	.90	.80
22	.10	.90	.70	2.3	2.1	.60	.70	.80	2.1	1.8	.80	.80
23	.10	1.8	.60	2.2	4.5	.60	.70	2.0	2.1	1.8	.80	.80
24	.10	4.1	.60	2.0	4.6	.60	.70	2.9	2.1	1.8	.80	.80
25	.10	2.3	.40	1.8	3.6	.60	.90	2.9	2.0	1.7	.80	.80
26	.10	1.7	1.0	1.7	3.1	.60	2.7	2.9	2.0	1.7	.80	.80
27	.10	1.4	.90	1.2	2.8	.60	2.8	2.9	2.0	1.7	.80	.80
28	.10	1.2	.90	1.0	2.6	.60	2.8	3.0	2.0	1.7	.80	.80
29	.10	1.1	1.5	.90	---	.60	1.9	3.0	2.0	1.7	.80	.80
30	0	1.1	.90	1.1	---	.70	.80	3.0	2.0	1.7	.80	.80
31	0	---	1.0	.80	---	.70	---	3.0	---	1.7	.80	---
TOTAL	2.80	32.30	27.60	71.50	67.50	29.00	28.10	43.20	65.7	57.9	34.10	22.80
MEAN	.090	1.08	.89	2.31	2.41	.94	.94	1.39	2.19	1.87	1.10	.76
MAX	.40	5.1	1.5	5.3	8.0	2.4	2.8	3.0	2.9	2.0	1.7	.80
MIN	0	0	.40	.80	.50	.60	.60	.80	2.0	1.7	.40	.60
AC-FT	5.6	64	55	142	134	58	56	86	130	115	68	45

CAL YR 1965 TOTAL 2222.90 MEAN 6.09 MAX 84 MIN 0 AC-FT 4410
WTR YR 1966 TOTAL 482.50 MEAN 1.32 MAX 8.0 MIN 0 AC-FT 957

11426200 NORTH FORK FORBES CREEK NEAR DUTCH FLAT, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.90	.90	4.3	11	15	1.7	31	21	2.5	1.1	.90	.30
2	.90	.90	8.9	11	15	1.7	30	20	2.3	1.0	.90	.30
3	.90	.90	12	11	15	1.7	30	20	2.3	1.0	.90	.30
4	.90	.90	12	11	15	1.8	29	20	2.3	1.0	.90	.30
5	.90	.90	13	11	15	1.8	29	21	2.3	1.0	.90	.40
6	.90	1.0	14	11	15	1.9	29	20	2.3	1.0	.90	.30
7	.90	1.0	13	11	14	1.9	28	20	2.3	1.0	.90	.30
8	.90	.90	13	10	14	1.9	28	20	2.3	1.0	.90	.30
9	.90	.90	13	9.9	14	1.9	27	21	2.2	1.0	.90	.30
10	.90	.90	13	9.5	14	1.9	27	22	2.1	1.0	.90	.40
11	.90	.90	13	9.3	14	2.0	26	22	2.1	1.0	.90	.40
12	.90	.90	13	9.0	13	2.0	26	23	2.1	.90	.90	.30
13	.90	.90	13	8.5	13	2.0	25	23	2.2	.80	.70	.30
14	.90	.90	13	8.3	13	2.1	25	17	2.1	.80	.40	.30
15	.90	1.0	13	8.2	13	2.3	25	3.0	1.7	.80	.40	.30
16	.90	1.7	13	8.0	13	4.7	25	3.0	1.1	.80	.30	.30
17	.90	2.2	13	7.6	13	3.8	24	3.0	1.1	.90	.30	.40
18	.90	2.2	13	7.4	13	3.5	25	2.8	1.1	.80	.30	.40
19	.90	2.2	13	7.3	12	3.6	25	2.4	1.1	.80	.30	.40
20	.90	2.6	12	7.2	12	10	24	2.4	1.0	.80	.30	.30
21	.90	3.5	11	10	12	22	24	2.4	1.0	.80	.30	.30
22	.90	4.5	11	11	12	19	24	2.4	1.0	.80	.30	.30
23	.90	4.3	11	10	11	12	23	2.4	1.0	.80	.30	.30
24	.90	4.2	11	11	11	22	23	2.4	1.1	.80	.30	.30
25	.90	4.2	11	11	5.3	37	23	2.4	1.1	.80	.30	.30
26	.90	4.1	11	11	1.7	28	22	2.4	1.1	.80	.30	.30
27	.90	4.0	11	11	1.7	20	22	2.4	1.1	.90	.30	.30
28	.90	4.1	11	12	1.7	27	22	2.5	1.1	.90	.30	.30
29	.90	4.2	11	15	---	31	21	2.5	1.1	.90	.30	.30
30	.90	4.2	11	14	---	30	21	2.5	1.1	.90	.30	.30
31	.90	---	11	15	---	30	---	2.6	---	.90	.30	---
TOTAL	27.90	66.00	366.2	318.2	331.4	332.2	763	333.5	49.2	27.80	17.10	9.60
MEAN	.90	2.20	11.8	10.3	11.8	10.7	25.4	10.8	1.64	.90	.55	.32
MAX	.90	4.5	14	15	15	37	31	23	2.5	1.1	.90	.40
MIN	.90	.90	4.3	7.2	1.7	1.7	21	2.4	1.0	.80	.30	.30
AC-FT	55	131	726	631	657	659	1510	661	98	55	34	19

CAL YR 1966 TOTAL 879.90 MEAN 2.41 MAX 14 MIN .40 AC-FT 1750
WTR YR 1967 TOTAL 2642.10 MEAN 7.24 MAX 37 MIN .30 AC-FT 5240

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.30	.30	6.2	5.4	5.4	13	12	.60	1.3	1.1	1.0	2.0
2	.50	.30	6.2	5.4	5.4	13	12	.60	1.3	1.1	1.0	2.0
3	.50	.30	6.2	5.4	5.4	13	12	.60	1.3	1.1	1.0	2.0
4	.40	.30	6.3	5.3	5.4	13	7.2	.60	1.3	1.1	1.0	2.0
5	.40	.30	6.5	5.2	5.4	13	.70	.60	1.3	1.1	1.0	2.0
6	.40	.30	6.2	5.1	5.4	13	.70	.60	1.3	1.1	1.0	2.0
7	.40	.30	6.3	5.1	5.4	13	.70	.60	1.3	1.1	1.0	2.0
8	.30	.30	6.1	5.1	5.4	13	.70	.60	1.3	1.1	1.0	2.0
9	.30	.30	6.0	5.1	5.6	13	.70	1.3	1.3	1.1	1.0	2.0
10	.30	.30	5.9	5.2	5.8	13	.70	1.9	1.3	1.1	1.5	2.0
11	.30	.30	5.8	5.1	5.7	13	.70	1.9	1.2	1.1	2.1	2.0
12	.30	.30	5.9	5.1	5.6	13	.60	1.9	1.2	1.1	2.1	2.0
13	.30	.30	6.0	5.1	5.6	13	.60	2.0	1.1	1.1	2.1	2.0
14	.30	.40	5.9	5.2	5.6	13	.60	2.0	1.1	1.1	2.1	1.9
15	.30	.30	5.8	6.2	5.6	13	.60	1.9	1.1	1.1	2.1	1.9
16	.30	.30	5.8	5.6	5.9	13	.60	1.9	1.1	1.1	2.1	1.9
17	.30	.30	5.8	5.4	6.8	13	.60	1.9	1.1	1.1	2.1	1.9
18	.30	2.1	5.8	5.4	6.9	12	.60	1.9	1.1	1.1	2.1	1.9
19	.30	4.1	5.8	5.4	7.2	12	.60	1.9	1.1	1.1	2.2	1.9
20	.30	4.1	5.8	5.4	8.5	12	.60	1.2	1.1	1.1	2.1	2.0
21	.30	4.0	5.8	5.4	8.4	12	.50	.50	1.1	1.1	2.1	2.0
22	.30	3.9	5.7	5.4	8.2	12	.50	.50	1.1	1.1	2.1	2.0
23	.30	4.0	5.6	5.4	8.8	12	.50	.90	1.1	1.1	2.1	1.9
24	.30	4.1	5.6	5.4	8.8	12	.50	1.3	1.1	1.0	2.1	1.9
25	.30	3.9	5.6	5.4	8.9	13	.50	1.3	1.1	1.1	2.1	1.9
26	.30	3.9	5.6	5.4	9.0	13	.50	1.3	1.1	1.1	2.1	1.9
27	.30	3.9	5.6	5.4	9.5	13	.50	1.3	1.1	1.1	2.0	1.9
28	.30	5.0	5.6	5.4	9.4	13	.50	1.3	1.1	1.1	2.0	1.9
29	.30	6.5	5.5	5.4	11	12	.50	1.3	1.1	1.1	2.0	1.9
30	.30	6.3	5.4	5.4	---	12	.50	1.3	1.1	1.0	2.0	1.9
31	.30	---	5.4	5.4	---	12	---	1.3	---	1.0	2.0	---
TOTAL	10.10	61.00	181.7	165.6	200.0	393	58.50	38.80	35.2	33.8	54.2	58.6
MEAN	.33	2.03	5.86	5.34	6.90	12.7	1.95	1.25	1.17	1.09	1.75	1.95
MAX	.50	6.5	6.5	6.2	11	13	12	2.0	1.3	1.1	2.2	2.0
MIN	.30	.30	5.4	5.1	5.4	12	.50	.50	1.1	1.0	1.0	1.9
AC-FT	20	121	360	328	397	780	116	77	70	67	108	116

CAL YR 1967 TOTAL 2434.80 MEAN 6.67 MAX 37 MIN .30 AC-FT 4830
WTR YR 1968 TOTAL 1290.50 MEAN 3.53 MAX 13 MIN .30 AC-FT 2560

11426200 NORTH FORK FORBES CREEK NEAR DUTCH FLAT, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	2.9	2.1	2.3	33	21	17	.50	.50	.40	1.3	1.9
2	1.9	2.9	2.0	2.3	33	20	19	.50	.50	.40	1.3	1.9
3	1.9	2.9	2.0	2.3	32	20	19	.50	.50	.40	1.3	1.9
4	1.9	2.9	2.0	2.3	32	19	19	.50	.50	.40	1.3	1.9
5	1.9	2.8	2.0	2.3	31	18	20	.50	.50	.40	1.3	1.9
6	2.1	2.7	2.0	2.3	31	17	20	.50	.50	.40	1.3	1.9
7	2.5	2.7	1.9	2.3	30	16	20	.50	.50	.40	1.3	1.9
8	2.5	2.6	1.9	2.3	30	15	9.6	.50	.50	.40	1.2	1.9
9	2.6	2.5	1.9	2.3	29	14	.60	.50	.50	.40	1.3	1.8
10	2.6	2.5	2.0	2.4	29	12	.60	.50	.50	.40	1.3	1.8
11	2.9	2.5	2.1	2.5	29	10	.60	.50	.50	.40	1.3	1.8
12	5.2	2.8	1.9	2.7	29	8.8	.60	.50	.50	.40	1.3	1.8
13	6.8	2.6	1.9	4.2	28	6.8	.60	.50	.50	.30	1.3	1.7
14	6.6	2.5	1.9	5.8	27	6.2	.50	.50	.40	.30	1.2	1.7
15	6.2	2.5	2.3	7.4	27	6.4	.50	.50	.40	.60	1.2	1.7
16	3.0	2.5	2.3	7.5	27	6.7	.50	.50	.40	.90	1.2	1.7
17	2.9	2.5	2.1	7.3	26	7.4	.50	.50	.40	.90	1.2	1.7
18	2.9	2.4	2.1	7.6	26	8.3	.50	.50	.40	.90	1.2	1.7
19	2.8	2.4	2.1	10	25	9.2	.50	.50	.40	.90	1.2	1.7
20	2.6	2.3	2.1	31	25	9.6	.50	.50	.40	.90	1.1	2.4
21	2.6	2.3	2.1	133	24	10	.40	.50	.40	.90	1.1	2.8
22	2.6	2.3	2.1	182	24	11	.40	.50	.40	1.1	1.0	2.8
23	2.6	2.3	2.1	101	23	11	.60	.50	.40	1.5	1.0	2.7
24	2.6	2.3	2.2	72	23	12	.60	.50	.50	1.5	1.0	2.7
25	2.6	2.3	2.6	88	22	12	.70	.50	.50	1.4	1.3	2.8
26	2.6	2.1	2.4	133	22	13	.60	.50	.50	1.4	1.8	2.8
27	2.6	2.1	2.3	99	21	13	.50	.50	.40	1.4	1.8	2.8
28	2.6	2.1	2.3	67	21	14	.50	.50	.40	1.4	1.8	2.8
29	2.7	2.1	2.3	46	---	14	.50	.50	.40	1.3	1.9	2.7
30	2.9	2.1	2.3	35	---	15	.50	.50	.40	1.3	1.9	2.7
31	2.9	---	2.3	33	---	15	---	.50	---	1.3	1.9	---
TOTAL	93.0	74.4	65.6	1098.1	759	391.4	155.40	15.50	13.60	25.00	41.6	64.3
MEAN	3.00	2.48	2.12	35.4	27.1	12.6	5.18	.50	.45	.81	1.34	2.14
MAX	6.8	2.9	2.6	182	33	21	20	.50	.50	1.5	1.9	2.8
MIN	1.9	2.1	1.9	2.3	21	6.2	.40	.50	.40	.30	1.0	1.7
AC-FT	184	148	130	2180	1510	776	308	31	27	50	83	128

CAL YR 1968 TOTAL 1270.70 MEAN 3.47 MAX 13 MIN .50 AC-FT 2520
WTR YR 1969 TOTAL 2796.90 MEAN 7.66 MAX 182 MIN .30 AC-FT 5550

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	3.4	5.9	.30	28	10	2.5	1.4	.90	.60	.50	.40
2	2.7	3.4	5.8	.30	25	11	2.7	1.4	1.0	.60	.50	.40
3	2.7	3.4	5.7	.30	25	10	2.7	1.4	1.0	.60	.50	.40
4	2.6	3.6	5.6	.30	24	12	2.6	1.3	1.0	.60	.50	.40
5	2.6	4.2	5.6	.30	17	12	2.6	1.2	1.0	.60	.50	.40
6	2.6	5.2	5.5	.30	7.4	11	2.5	1.1	1.0	.60	.40	.40
7	2.5	6.4	5.4	.30	7.4	10	2.4	1.1	1.0	.60	.40	.40
8	2.6	6.5	5.4	.30	7.4	11	2.4	1.1	1.0	.60	.40	.40
9	2.7	6.4	5.4	.60	7.6	11	2.3	1.2	1.0	.60	.40	.40
10	2.7	6.4	5.4	1.1	7.2	12	2.2	1.2	1.0	.60	.40	.40
11	2.6	6.4	5.4	.60	7.0	12	2.2	1.2	1.0	.60	.50	.40
12	2.6	6.5	5.4	.60	7.1	11	2.1	1.1	.90	.50	.50	.40
13	2.6	6.5	5.3	1.2	7.3	11	2.3	1.0	.90	.50	.50	.40
14	2.6	6.5	5.2	3.0	7.1	11	2.7	1.0	.90	.50	.50	.40
15	2.8	6.6	5.1	1.7	6.9	10	2.5	1.0	.90	.50	.50	.40
16	3.0	6.6	5.0	4.1	7.2	9.5	2.5	1.0	.90	.50	.50	.40
17	2.8	6.5	4.9	4.2	7.4	8.7	2.4	.90	.90	.50	.50	.40
18	2.9	6.3	4.8	5.3	7.3	8.2	2.2	.90	.80	.50	.50	.40
19	3.3	6.2	5.1	35	8.5	7.6	2.6	.90	.80	.50	.50	.40
20	3.3	6.2	3.7	51	9.7	7.0	2.3	.90	.80	.50	.50	.40
21	3.3	6.2	1.5	155	8.9	6.6	2.0	.90	.80	.50	.50	.40
22	3.3	6.2	.60	317	8.4	6.2	1.9	.90	.80	.50	.50	.30
23	3.3	6.1	.80	183	7.8	5.9	1.9	.90	.80	.50	.50	.30
24	3.4	6.1	2.8	134	7.7	5.6	1.7	.90	.70	.50	.50	.30
25	3.4	6.1	1.3	88	7.5	5.5	1.6	.90	.70	.50	.50	.30
26	3.4	6.1	.70	67	7.0	3.5	1.9	.90	.70	.50	.50	.30
27	3.4	6.1	.50	62	6.7	.80	2.5	.90	.70	.50	.40	.40
28	3.4	6.0	.40	54	6.8	.90	2.1	.90	.70	.50	.40	.30
29	3.4	5.9	.40	44	---	1.4	1.8	.90	.70	.50	.40	.30
30	3.4	5.9	.30	36	---	2.2	1.5	.90	.70	.50	.40	.30
31	3.4	---	.30	32	---	2.5	---	.90	---	.50	.40	---
TOTAL	92.0	173.9	115.20	1282.80	292.3	247.10	67.6	32.20	26.00	16.60	14.50	11.20
MEAN	2.97	5.80	3.72	41.4	10.4	7.97	2.25	1.04	.87	.54	.47	.37
MAX	3.4	6.6	5.9	317	28	12	2.7	1.4	1.0	.60	.50	.40
MIN	2.5	3.4	.30	.30	6.7	.80	1.5	.90	.70	.50	.40	.30
AC-FT	182	345	228	2540	580	490	134	64	52	33	29	22

CAL YR 1969 TOTAL 2945.00 MEAN 8.07 MAX 182 MIN .30 AC-FT 5840
WTR YR 1970 TOTAL 2371.40 MEAN 6.50 MAX 317 MIN .30 AC-FT 4700

11426400 NORTH SHIRTTAIL CREEK NEAR DUTCH FLAT, CALIF.

LOCATION.--Lat 39°07'49", long 120°47'44", in SE¼ sec.24, T.15 N., R.10 E., Placer County, Tahoe National Forest, on right bank 200 ft downstream from Forbes Creek and 7.0 miles southeast of Dutch Flat.

DRAINAGE AREA.--9.10 sq mi.

PERIOD OF RECORD.--July 1956 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 3,500 ft (from topographic map).

AVERAGE DISCHARGE.--14 years, 20.9 cfs (15,140 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (180 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Mar. 12, 1966	2400	*84	2.55	Mar. 16, 1967	1720	424	4.08	Jan. 26, 1969	0310	867	5.36
				May 10, 1967	0520	202	3.21				
Dec. 2, 1966	2110	213	3.30					Dec. 24, 1969	0500	328	3.75
Dec. 6, 1966	1300	240	3.42	Feb. 20, 1968	0130	*270	3.54	Jan. 14, 1970	1100	370	3.89
Jan. 21, 1967	2150	*505	4.34					Jan. 16, 1970	0900	431	4.07
Jan. 29, 1967	0720	505	4.32	Jan. 21, 1969	-	*1,670	7.30	Jan. 21, 1970	1800	*1,060	5.88

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Aug. 20-25, Sept. 5-12, 1966	.20	1969	Oct. 1, 1968	.30
1967	Oct. 3, 4, 10-12, 1966	.30	1970	Many days	.10
1968	Many days	.40			

Period of record: Maximum discharge, 1,780 cfs Dec. 22, 1964 (gage height, 7.56 ft), from rating curve extended above 590 cfs on basis of slope-area measurement at gage height 6.36 ft; minimum daily, 0.10 cfs for many days in 1970.

Flood of Dec. 23, 1955, reached a stage of 7.30 ft, from floodmarks (discharge, 1,650 cfs).

REMARKS.--No gage-height record Dec. 21, 1968, to Jan. 22, 1969, Jan. 31 to Apr. 10, 1969. Flow slightly regulated by Big Reservoir (capacity, 2,200 acre-ft).

COOPERATION.--Records furnished by Bureau of Reclamation and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.70	.50	5.9	7.6	12	30	30	6.3	4.2	1.3	.70	.30
2	.60	.50	5.6	6.7	11	27	27	6.0	3.7	1.3	.60	.30
3	.60	.60	5.5	6.3	11	25	24	6.3	3.2	1.3	.60	.30
4	.60	.60	5.4	12	14	24	21	6.3	3.1	1.2	.60	.30
5	.50	.50	5.2	48	29	25	19	6.2	3.0	1.2	.60	.20
6	.50	.50	5.2	46	41	29	18	6.0	3.0	1.1	.60	.20
7	.50	.50	4.8	29	29	45	16	6.0	3.2	1.1	.60	.20
8	.50	1.3	4.6	24	24	43	15	5.9	3.1	1.1	.50	.20
9	.50	.90	4.5	23	22	48	15	6.3	2.9	1.1	.50	.20
10	.50	.80	4.5	20	20	69	22	8.9	2.8	1.1	.50	.20
11	.50	.70	4.8	18	18	69	28	6.6	2.6	1.0	.50	.20
12	.60	.90	6.5	17	18	67	37	5.8	2.6	1.0	.50	.20
13	.70	1.6	5.8	16	17	79	25	5.5	2.4	1.0	.50	.30
14	1.0	7.9	5.5	16	16	74	21	5.3	2.3	1.0	.50	.30
15	1.4	3.4	4.8	16	16	69	19	5.0	2.3	.90	.40	.30
16	1.0	2.2	4.0	16	16	69	18	4.8	2.2	.80	.30	.30
17	.80	14	3.8	15	16	57	16	4.6	2.0	.80	.30	.30
18	.80	43	3.6	15	17	50	16	4.4	2.0	.70	.30	.30
19	.80	14	3.5	15	22	54	15	4.2	1.9	.70	.30	.30
20	.70	7.6	3.4	14	24	49	14	4.0	1.8	.70	.20	.40
21	.70	5.3	3.4	13	24	44	13	3.8	1.8	.80	.20	.30
22	.70	4.2	3.3	13	24	42	12	3.7	1.8	.80	.20	.30
23	.70	7.7	3.1	13	39	40	9.9	3.8	1.8	.80	.20	.30
24	.60	33	3.3	12	42	40	9.3	4.5	1.8	.70	.20	.30
25	.60	16	6.3	12	36	40	9.1	4.3	1.7	.70	.20	.30
26	.50	11	4.0	11	33	40	9.4	4.2	1.6	.70	.30	.30
27	.50	9.3	4.0	11	31	40	9.0	4.1	1.5	.60	.40	.30
28	.50	7.8	7.4	11	30	40	9.1	3.9	1.5	.60	.40	.30
29	.50	6.8	12	11	---	39	8.3	4.1	1.5	.60	.30	.30
30	.50	6.3	11	13	---	37	6.7	4.3	1.4	.60	.30	.30
31	.50	---	8.4	12	---	34	---	4.3	---	.80	.30	---
TOTAL	20.10	209.40	163.1	512.6	652	1438	511.8	159.4	70.7	28.10	12.60	8.30
MEAN	.65	6.98	5.26	16.5	23.3	46.4	17.1	5.14	2.36	.91	.41	.28
MAX	1.4	43	12	48	42	79	37	8.9	4.2	1.3	.70	.40
MIN	.50	.50	3.1	6.3	11	24	6.7	3.7	1.4	.60	.20	.20
AC-FT	40	415	324	1020	1290	2850	1020	316	140	56	25	16

CAL YR 1965 TOTAL 9457.40 MEAN 25.9 MAX 699 MIN .50 AC-FT 18760
WTR YR 1966 TOTAL 3786.10 MEAN 10.4 MAX 79 MIN .20 AC-FT 7510

11426400 NORTH SHIRTTAIL CREEK NEAR DUTCH FLAT, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.40	.50	36	17	169	15	60	60	23	5.7	2.4	.60
2	.40	.50	104	17	126	15	57	66	21	5.4	2.3	.60
3	.30	.50	81	16	103	14	56	70	20	5.2	2.0	.70
4	.30	.50	55	16	89	14	57	85	18	5.1	1.8	.70
5	.40	.50	137	16	77	13	57	102	20	4.9	2.1	.90
6	.40	3.7	170	15	68	12	68	104	21	4.7	2.3	.80
7	.40	2.4	110	14	63	12	70	113	18	4.6	2.2	.70
8	.40	1.7	76	14	57	11	67	121	17	4.4	2.1	.60
9	.40	1.6	59	13	51	11	70	127	16	4.3	2.1	.60
10	.30	1.5	54	12	47	13	74	178	14	4.2	1.9	.60
11	.30	1.5	45	12	44	19	70	145	14	4.1	1.8	.60
12	.40	1.5	40	12	41	19	67	122	14	3.8	1.8	.60
13	.40	1.5	38	12	39	19	69	108	17	3.6	1.6	.50
14	.50	1.7	35	11	41	17	77	94	15	3.5	1.4	.50
15	.50	2.9	33	11	38	23	73	72	13	3.4	1.1	.50
16	.50	12	31	10	36	293	70	64	11	3.4	.90	.50
17	.50	7.2	29	10	35	206	75	55	10	3.3	.80	.60
18	.50	5.3	28	10	34	139	76	46	10	3.2	.70	1.3
19	.50	6.8	27	9.8	33	112	71	41	9.6	3.1	.70	.80
20	.50	33	26	21	31	102	66	37	9.0	3.0	.70	.60
21	.50	31	24	274	30	104	65	34	8.5	2.8	.70	.60
22	.50	31	23	179	29	96	63	31	8.1	2.9	.70	.50
23	.60	14	22	94	28	47	64	29	7.8	2.9	.70	.60
24	.50	11	22	72	27	70	66	27	7.4	2.8	.70	.70
25	.50	9.4	21	59	23	89	64	25	7.2	2.7	.60	.60
26	.50	8.4	21	65	17	78	64	24	6.9	2.6	.60	.60
27	.50	7.9	20	80	16	66	66	23	6.5	2.6	.60	.50
28	.50	13	19	142	16	67	62	22	6.4	2.6	.60	.50
29	.50	25	19	339	---	68	59	21	6.1	2.5	.60	.50
30	.50	18	18	250	---	65	58	20	5.9	2.4	.60	.50
31	.50	---	18	249	---	63	---	20	---	2.4	.60	---
TOTAL	13.90	255.50	1441	2071.8	1408	1892	1981	2086	381.4	112.1	39.70	18.90
MEAN	.45	8.52	46.5	66.8	50.3	61.0	66.0	67.3	12.7	3.62	1.28	.63
MAX	.60	33	170	339	169	293	77	178	23	5.7	2.4	1.3
MIN	.30	.50	18	9.8	16	11	56	20	5.9	2.4	.60	.50
AC-FT	28	507	2860	4110	2790	3750	3930	4140	757	222	79	37

CAL YR 1966 TOTAL 5103.90 MEAN 14.0 MAX 170 MIN .20 AC-FT 10120
WTR YR 1967 TOTAL 11701.30 MEAN 32.1 MAX 339 MIN .30 AC-FT 23210

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.60	.60	7.6	9.5	17	49	39	6.2	2.8	1.6	.80	.60
2	4.4	.60	7.3	9.1	19	45	38	6.0	2.8	1.5	.60	.60
3	3.4	.60	8.0	8.7	27	42	36	5.5	2.7	1.3	.50	.60
4	1.5	.70	14	8.5	25	39	31	4.3	2.7	1.4	.40	.60
5	1.6	.70	39	8.2	24	38	23	4.7	2.7	1.3	.40	.60
6	1.4	.70	16	7.9	26	36	21	4.6	2.9	1.3	.50	.50
7	1.3	.70	25	7.6	28	37	20	4.3	3.4	1.2	.50	.50
8	1.2	.70	17	7.5	30	43	19	4.0	3.2	1.1	.50	.50
9	1.1	.70	13	7.5	41	42	18	4.1	2.8	1.1	.50	.40
10	1.1	.70	11	18	45	38	18	4.6	2.6	1.1	.50	.40
11	1.1	.70	10	16	40	36	17	4.7	2.5	1.0	.60	.40
12	1.0	.70	9.7	13	38	36	16	4.8	2.3	.90	.50	.40
13	.90	.70	9.0	12	38	40	16	6.5	2.7	.90	.40	.40
14	.80	1.9	8.0	17	37	45	14	6.0	2.4	.90	.50	.40
15	.80	1.3	7.0	106	35	47	14	5.1	2.4	1.0	.50	.50
16	.90	1.1	8.0	62	37	59	14	4.6	2.3	.80	.40	.50
17	.90	1.0	7.8	37	91	58	13	4.2	2.2	.80	.40	.40
18	.90	1.8	8.7	29	87	51	12	4.1	2.1	.70	.50	.40
19	.90	8.1	8.7	25	81	48	11	4.2	2.0	.60	2.8	.60
20	.80	5.0	7.8	23	188	46	11	4.4	2.0	.60	1.8	1.1
21	.80	4.2	7.5	21	187	46	10	3.9	1.9	.50	1.4	.70
22	.80	4.0	7.5	21	140	45	9.3	3.6	1.9	.50	1.2	.50
23	.90	4.0	7.5	21	141	45	8.8	3.6	1.9	.50	1.1	.50
24	.90	3.9	7.5	20	110	44	8.5	3.6	1.8	.50	1.0	.50
25	.80	3.8	7.7	19	90	47	8.0	3.8	1.6	.50	.70	.40
26	.80	3.8	9.0	19	75	46	7.8	3.5	1.6	.50	.70	.40
27	.80	4.0	11	18	65	45	7.7	3.3	1.5	.40	.70	.40
28	.80	4.8	11	17	58	44	7.5	3.1	1.5	.40	.70	.40
29	.80	6.6	11	17	52	42	7.2	3.0	1.5	.40	.70	.40
30	.70	8.0	11	16	---	40	6.6	3.0	1.5	.50	.60	.40
31	.60	---	10	20	---	39	---	2.8	---	.80	.60	---
TOTAL	35.30	76.10	343.3	641.5	1872	1358	482.4	134.1	68.2	26.60	23.00	15.00
MEAN	1.14	2.54	11.1	20.7	64.6	43.8	16.1	4.33	2.27	.86	.74	.50
MAX	4.4	8.1	39	106	188	59	39	6.5	3.4	1.6	2.8	1.1
MIN	.60	.60	7.0	7.5	17	36	6.6	2.8	1.5	.40	.40	.40
AC-FT	70	151	681	1270	3710	2690	957	266	135	53	46	30

CAL YR 1967 TOTAL 10445.60 MEAN 28.6 MAX 339 MIN .50 AC-FT 20720
WTR YR 1968 TOTAL 5075.50 MEAN 13.9 MAX 188 MIN .40 AC-FT 10070

11426400 NORTH SHIRTTAIL CREEK NEAR DUTCH FLAT, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.30	1.5	6.7	11	100	50	104	24	3.6	2.4	.70	.90
2	.40	4.2	6.7	11	80	47	110	23	3.5	2.2	.70	.80
3	.40	18	6.3	10	75	45	100	22	3.4	2.1	.80	.80
4	.40	8.8	6.0	10	70	45	91	20	3.4	2.0	.70	.80
5	.40	6.5	5.7	10	68	45	132	19	3.4	1.9	.70	.80
6	.40	5.3	5.6	10	67	45	114	19	3.3	1.8	.70	.80
7	.50	4.8	5.5	10	67	45	104	18	3.3	1.9	.70	.80
8	.60	4.3	5.5	11	67	44	97	18	3.3	1.9	.70	.80
9	.60	4.1	5.6	13	66	43	85	17	3.5	1.9	.70	.80
10	.60	3.9	14	14	65	42	75	17	3.5	1.9	.70	.80
11	.70	4.4	23	16	72	42	64	17	4.0	1.8	.60	.80
12	6.7	17	14	27	79	42	64	15	4.3	1.8	.70	.80
13	9.6	8.2	11	120	66	41	64	14	3.8	1.6	.50	.70
14	9.4	6.3	19	90	74	41	58	13	3.4	1.6	.50	.70
15	6.6	7.8	42	75	82	40	51	13	3.3	1.6	.50	.70
16	2.0	8.0	31	60	74	40	45	12	3.5	1.6	.50	.70
17	1.8	7.1	20	46	70	42	44	11	3.6	1.5	.50	.70
18	1.6	8.7	17	55	68	43	47	11	3.3	1.5	.50	.70
19	1.6	7.8	15	470	68	44	42	10	3.0	1.5	.50	.70
20	1.6	6.5	14	997	68	46	40	9.7	3.0	1.5	.50	.90
21	1.6	5.7	14	956	67	47	37	9.2	2.8	1.3	.50	1.0
22	1.6	5.2	14	532	66	49	34	8.7	2.6	1.2	.50	1.0
23	1.5	4.8	13	338	64	50	43	8.2	2.6	1.4	.50	1.0
24	1.4	6.6	28	287	62	52	41	7.6	2.6	1.3	.50	1.0
25	1.3	6.7	32	510	60	54	37	7.4	2.4	1.2	.50	.90
26	1.3	6.1	23	537	58	55	33	7.2	2.6	1.1	1.0	.80
27	1.3	5.4	19	325	56	60	31	7.3	2.5	1.0	1.0	.80
28	1.3	5.1	15	244	52	66	29	6.7	2.4	.90	1.0	.80
29	1.7	4.9	13	188	---	74	27	5.6	2.4	.80	1.0	.80
30	2.4	5.5	12	147	---	90	25	4.1	2.4	.70	1.0	.80
31	1.7	---	11	134	---	95	---	3.6	---	.70	.90	---
TOTAL	63.30	199.2	467.6	6264	1931	1564	1868	398.3	94.7	47.60	20.80	24.40
MEAN	2.04	6.64	15.1	202	69.0	50.5	62.3	12.8	3.16	1.54	.67	.81
MAX	9.6	18	42	997	100	95	132	24	4.3	2.4	1.0	1.0
MIN	.30	1.5	5.5	10	52	40	25	3.6	2.4	.70	.50	.70
AC-FT	126	395	927	12420	3830	3100	3710	790	188	94	41	48

CAL YR 1968 TOTAL 5350.90 MEAN 14.6 MAX 188 MIN .30 AC-FT 10610
WTR YR 1969 TOTAL 12942.90 MEAN 35.5 MAX 997 MIN .30 AC-FT 25670

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.80	1.5	6.1	18	103	72	14	5.7	2.2	.80	.20	.10
2	.80	1.4	6.1	16	93	60	14	5.3	2.1	.80	.20	.10
3	.90	1.4	5.8	14	87	51	12	5.0	1.9	.70	.20	.10
4	.90	1.4	5.6	13	82	48	10	4.7	1.8	.60	.20	.10
5	.90	4.3	5.6	12	68	46	9.7	4.2	1.7	.60	.20	.10
6	.90	16	5.8	11	54	43	9.4	4.2	1.7	.60	.20	.10
7	.90	10	5.6	11	50	42	9.4	4.1	1.6	.60	.20	.10
8	1.2	8.5	6.3	11	45	61	8.8	4.1	1.8	.50	.20	.10
9	1.0	7.0	6.3	27	43	56	8.5	4.1	2.9	.50	.20	.10
10	1.0	6.1	6.5	61	40	57	8.5	4.2	2.6	.50	.20	.10
11	1.1	5.8	14	41	40	55	8.2	4.0	2.1	.50	.20	.10
12	1.1	5.2	11	46	42	52	8.0	3.7	2.0	.50	.20	.10
13	1.1	5.2	29	85	46	47	8.8	3.6	1.9	.40	.20	.10
14	1.3	4.8	17	224	45	45	10	3.4	2.0	.40	.20	.10
15	4.4	5.4	7.5	149	41	43	9.7	3.1	1.9	.40	.20	.10
16	13	5.2	6.7	325	51	40	9.7	3.1	1.8	.40	.20	.10
17	8.1	4.8	6.3	348	66	37	9.3	3.0	1.5	.40	.10	.10
18	3.0	5.6	6.1	200	52	34	8.7	2.8	1.5	.40	.10	.10
19	2.3	7.2	17	190	45	32	10	2.8	1.3	.30	.10	.10
20	2.0	6.7	48	186	43	29	8.8	2.8	1.2	.30	.10	.10
21	1.8	6.5	81	647	40	28	8.0	2.8	1.1	.30	.10	.10
22	1.8	6.5	38	579	37	26	7.6	2.7	1.0	.30	.10	.10
23	1.7	6.5	44	373	35	24	7.3	2.6	1.0	.30	.10	.10
24	1.7	6.5	198	364	34	23	6.5	2.6	.90	.30	.10	.10
25	1.7	6.5	108	267	32	21	5.7	2.4	.90	.30	.10	.10
26	1.6	6.3	65	209	31	19	7.0	2.6	1.0	.30	.10	.10
27	1.6	6.3	42	255	29	16	7.7	2.6	1.1	.30	.10	.10
28	1.6	6.3	32	190	31	15	7.2	2.5	1.2	.30	.10	.10
29	1.6	6.1	26	159	---	15	6.9	2.4	1.1	.30	.10	.10
30	1.5	6.1	22	135	---	15	6.2	2.5	1.0	.20	.10	.10
31	1.5	---	20	114	---	14	---	2.3	---	.20	.10	---
TOTAL	64.80	177.1	898.3	5280	1405	1166	265.6	105.9	47.80	13.30	4.70	3.00
MEAN	2.09	5.90	29.0	170	50.2	37.6	8.85	3.42	1.59	.43	.15	.10
MAX	13	16	198	647	103	72	14	5.7	2.9	.80	.20	.10
MIN	.80	1.4	5.6	11	29	14	5.7	2.3	.90	.20	.10	.10
AC-FT	129	351	1780	10470	2790	2310	527	210	95	26	9.3	6.0

CAL YR 1969 TOTAL 13353.00 MEAN 36.6 MAX 997 MIN .50 AC-FT 26490
WTR YR 1970 TOTAL 9431.50 MEAN 25.8 MAX 647 MIN .10 AC-FT 18710

11427000 NORTH FORK AMERICAN RIVER AT NORTH FORK DAM, CALIF.

LOCATION.--Lat 38°56'10", long 121°01'22", in SW¼NW¼ sec.31, T.13 N., R.9 E., Placer County, on left bank 50 ft upstream from spillway of North Fork Dam, 2 miles upstream from Middle Fork, and 4 miles northeast of Auburn.

DRAINAGE AREA.--342 sq mi.

PERIOD OF RECORD.--October 1941 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 715.0 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--29 years, 827 cfs (599,200 acre-ft per year), median of yearly mean discharges, 730 cfs (529,000 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (4,300 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Apr. 2, 1966	0500	*2,270	2.68	Feb. 20, 1968	0600	*11,300	5.18	Dec. 21, 1969	1730	15,000	5.86
				Feb. 23, 1968	1630	6,300	4.08	Dec. 24, 1969	0900	13,400	5.58
Dec. 3, 1966	0300	6,040	4.01					Jan. 10, 1970	0530	4,320	3.50
Dec. 6, 1966	1700	6,460	4.12	Jan. 13, 1969	2230	7,710	4.43	Jan. 14, 1970	1530	14,700	5.80
Jan. 21, 1967	2400	11,900	5.29	Jan. 20, 1969	1600	*27,600	7.74	Jan. 16, 1970	1400	23,000	7.12
Jan. 29, 1967	1330	12,900	5.49	Jan. 26, 1969	0800	20,400	6.74	Jan. 21, 1970	2300	*38,200	9.04
Mar. 16, 1967	1700	*17,100	6.21	May 12, 1969	0300	5,680	3.91	Jan. 24, 1970	0500	15,400	5.93
May 21, 1967	2400	6,300	4.15	May 18, 1969	0330	4,650	3.61	Jan. 27, 1970	1000	9,520	4.83

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Nov. 7-10, 1965	0	1969	Oct. 5-10, 1968	34
1967	Oct. 1, 11, 13, 1966	40	1970	Sept.24-28, 1970	40
1968	Sept.13-19, 23-30, 1968	37			

Period of record: Maximum discharge, 65,400 cfs Dec. 23, 1964 (gage height, 11.87 ft), from rating curve extended above 24,000 cfs on basis of computed flow over spillway of dam at gage height 10.22 ft; no flow for several days in 1944, 1963, 1966, caused by operation of valve in North Fork Dam.

REMARKS.--Records good. Minor regulation by Lake Clementine (usable capacity, 12,800 acre-ft) formed by North Fork Dam. Storage in Big Reservoir and Lake Valley Reservoir (combined capacity, 10,300 acre-ft) above station. Lake Valley Canal (see station 11426190) diverts from North Fork of North Fork American River into Bear River basin for power development in powerhouses of Pacific Gas & Electric Co. Combined storage and diversion have small effect on natural flow. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

REVISIONS.--WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	49	213	593	408	426	1710	1080	304	85	49	37
2	58	85	206	370	417	417	1880	1090	284	81	49	34
3	65	120	200	297	378	400	1670	1210	256	77	46	34
4	65	80	206	329	362	392	1540	1240	244	77	46	31
5	61	40	213	1450	476	385	1480	1280	231	73	43	31
6	61	20	206	1480	1190	392	1610	1240	225	69	43	31
7	61	0	194	1050	948	442	1600	1120	225	69	40	31
8	65	0	188	820	684	584	1580	1160	225	69	40	31
9	58	0	182	722	575	593	1480	1130	219	65	40	31
10	55	0	176	611	460	1190	1660	1370	213	65	40	31
11	55	10	182	512	408	1310	1610	1280	206	65	40	31
12	55	40	219	442	362	1040	1470	981	194	61	43	31
13	55	80	200	400	348	1330	1310	882	182	61	43	34
14	65	165	182	385	325	1440	1200	882	176	61	40	37
15	73	263	165	378	311	1280	1240	810	170	61	37	37
16	69	188	155	385	297	1160	1370	760	160	61	34	37
17	58	258	145	362	290	937	1540	741	155	61	34	37
18	55	1510	141	340	297	820	1630	684	150	58	34	40
19	52	930	141	325	325	830	1220	674	141	58	34	40
20	52	400	136	304	378	800	1020	684	131	58	34	40
21	52	270	136	290	348	732	981	665	126	58	34	40
22	52	225	136	284	355	703	981	611	121	55	34	40
23	58	237	131	277	408	694	970	557	116	55	31	40
24	58	718	139	256	548	750	1080	512	111	52	31	40
25	55	585	468	250	521	830	1220	485	106	52	34	40
26	55	385	298	244	494	937	1380	476	97	49	34	40
27	52	297	225	244	460	1080	1330	442	97	49	34	40
28	52	263	271	237	442	1250	1120	408	93	49	34	40
29	52	244	916	250	---	1410	1100	385	89	49	34	40
30	52	225	800	468	---	1510	1060	362	85	49	34	40
31	52	---	926	434	---	1560	---	332	---	49	37	---
TOTAL	1789	7687	8096	14789	12815	27624	41042	25533	5132	1901	1180	1086
MEAN	57.7	256	261	477	458	891	1368	824	171	61.3	38.1	36.2
MAX	73	1510	926	1480	1190	1560	1880	1370	304	85	49	40
MIN	52	0	131	237	290	385	970	332	85	49	31	31
AC-FT	3550	15250	16060	29330	25420	54790	81410	50640	10180	3770	2340	2150

CAL YR 1965 TOTAL 330012 MEAN 904 MAX 12400 MIN 0 AC-FT 654600
WTR YR 1966 TOTAL 148674 MEAN 407 MAX 1880 MIN 0 AC-FT 294900

11427000 NORTH FORK AMERICAN RIVER AT NORTH FORK DAM, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	46	959	304	4330	512	1700	1040	1920	1610	206	81
2	43	46	2820	297	2940	512	1610	1070	1610	1420	188	77
3	43	49	3850	284	2220	521	1470	1200	1410	1340	176	77
4	43	52	1560	284	1850	512	1440	1410	1700	1130	170	77
5	43	49	3720	284	1660	460	1440	1430	2300	1000	165	81
6	43	73	4560	277	1500	434	1770	1360	2330	882	155	81
7	43	136	3160	256	1370	442	2660	1860	2250	790	150	77
8	43	93	1870	250	1250	460	1980	2480	2280	703	145	77
9	43	65	1430	244	1150	485	1720	3140	2430	656	141	77
10	43	58	1340	237	1100	512	1680	3340	2360	593	136	77
11	40	58	1330	231	1070	722	1670	2370	2300	557	131	77
12	43	55	1080	237	1040	1080	1530	1940	2200	530	126	73
13	40	55	948	237	1080	1460	1510	1800	2480	494	121	69
14	43	55	926	237	1090	1220	1540	1880	2240	485	116	69
15	43	81	810	250	926	1130	1440	2390	2300	451	116	69
16	46	389	741	256	840	10200	1300	3340	2480	426	111	69
17	46	370	703	256	780	9880	1310	3880	2790	400	106	73
18	46	219	656	244	750	5350	1710	3900	3000	370	106	81
19	46	160	611	231	732	3640	1670	3720	2830	348	101	93
20	46	1100	584	331	674	2830	1560	4260	2740	318	101	81
21	46	1170	557	6010	629	2420	1500	4880	2560	297	97	73
22	46	920	512	5860	602	2360	1370	4880	2360	290	97	73
23	46	439	476	2240	593	2470	1440	4620	2140	277	93	77
24	49	277	451	1910	566	2220	1660	4320	1980	277	89	73
25	46	219	426	1910	575	1920	1560	3900	2080	263	89	73
26	46	182	400	1640	530	1720	1410	3620	2070	244	93	69
27	46	165	370	2310	503	1560	1380	3400	1910	237	93	65
28	49	246	348	3090	494	1470	1260	3310	1800	231	89	65
29	49	2770	340	8410	---	1440	1140	2840	1810	231	89	65
30	46	1270	340	6920	---	1360	1070	2620	1730	225	85	65
31	46	---	318	6610	---	1510	---	2340	---	219	85	---
TOTAL	1381	10867	38196	52137	32844	62812	46500	88540	66390	17294	3766	2234
MEAN	44.5	362	1232	1682	1173	2026	1550	2856	2213	558	121	74.5
MAX	49	2770	4560	8410	4330	10200	2660	4880	3000	1610	206	93
MIN	40	46	318	231	494	434	1070	1040	1410	219	85	65
AC-FT	2740	21550	75760	103400	65150	124600	92230	175600	131700	34300	7470	4430

CAL YR 1966 TOTAL 181546 MEAN 497 MAX 4560 MIN 31 AC-FT 360100
WTR YR 1967 TOTAL 422961 MEAN 1159 MAX 10200 MIN 40 AC-FT 838900

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	58	200	206	539	1480	1510	1200	426	111	52	49
2	77	58	145	194	539	1340	1270	1140	408	106	52	46
3	248	58	145	182	1260	1260	1070	1160	408	101	49	46
4	170	61	270	170	1100	1200	981	1200	378	97	46	46
5	106	61	975	160	915	1190	992	1090	332	89	46	46
6	93	61	451	155	860	1080	915	915	325	85	43	43
7	85	65	512	155	871	992	882	810	332	85	43	43
8	81	65	485	150	830	1060	882	780	340	81	43	43
9	77	65	297	150	850	992	926	770	290	77	43	43
10	77	61	237	358	1010	860	1080	800	263	77	43	43
11	77	61	213	417	840	790	1300	790	250	69	40	43
12	73	61	206	270	760	732	1260	712	244	65	40	40
13	73	65	176	237	760	915	1130	694	231	65	40	37
14	69	85	136	244	741	1090	1060	647	219	65	43	37
15	73	85	141	2560	684	1130	1130	611	213	65	43	37
16	81	81	150	2310	647	1300	1060	566	213	65	43	37
17	73	81	145	1120	1550	1660	860	575	206	61	43	37
18	69	77	176	732	2440	1330	750	593	200	61	43	37
19	65	141	176	584	1920	1120	722	665	188	61	58	37
20	65	182	155	494	7920	992	712	770	176	58	150	40
21	65	136	145	451	6460	937	703	790	170	58	141	43
22	69	111	141	442	4530	915	665	674	160	55	85	40
23	65	101	145	451	5110	893	647	557	155	55	69	37
24	65	97	170	434	4070	904	684	476	155	55	61	37
25	61	89	219	408	2750	948	722	468	145	55	55	37
26	61	89	277	392	2210	1040	820	530	141	55	52	37
27	58	89	355	378	1960	937	926	530	131	55	52	37
28	61	111	378	348	1820	981	937	557	131	52	52	37
29	61	116	311	332	1610	1190	1050	557	126	52	52	37
30	61	237	256	557	---	1440	1190	512	116	52	52	37
31	61	---	225	584	---	1500	---	460	---	52	49	---
TOTAL	2485	2708	8013	15625	57556	34198	28836	22599	7072	2140	1723	1209
MEAN	80.2	90.3	258	504	1985	1103	961	729	236	69.0	55.6	40.3
MAX	248	237	975	2560	7920	1660	1510	1200	426	111	150	49
MIN	58	58	136	150	539	732	647	460	116	52	40	37
AC-FT	4930	5370	15890	30990	114200	67830	57200	44830	14030	4240	3420	2400

CAL YR 1967 TOTAL 385723 MEAN 1057 MAX 10200 MIN 58 AC-FT 765100
WTR YR 1968 TOTAL 184164 MEAN 503 MAX 7920 MIN 37 AC-FT 365300

11427000 NORTH FORK AMERICAN RIVER AT NORTH FORK DAM, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	65	213	485	2080	2670	3080	2550	2630	460	116	55
2	37	85	237	451	1870	2080	2790	2480	2310	451	111	55
3	37	1020	194	426	1720	1820	2340	2270	2450	434	111	55
4	37	729	182	485	1620	1610	2030	1940	2430	400	106	55
5	34	311	176	584	1940	1460	2890	2060	2130	378	101	55
6	34	206	170	593	2420	1420	2830	3000	2080	362	97	55
7	34	160	165	602	2240	1310	2270	3520	1870	340	97	55
8	34	136	160	584	1770	1210	2000	3800	1710	325	97	55
9	34	116	165	521	1680	1150	1870	4320	1520	325	93	58
10	34	121	194	451	1660	1080	1770	4500	1330	318	89	55
11	37	121	781	544	1850	1010	1980	4620	1160	311	89	52
12	88	437	485	1180	3250	970	2360	4620	1280	297	89	52
13	145	453	348	3470	2450	926	2500	4210	1270	277	85	52
14	126	256	512	5120	2060	882	2270	3820	1360	270	85	52
15	150	270	762	2460	3360	882	1920	3210	1410	263	81	52
16	106	244	1010	1620	3570	926	1770	3040	1540	250	81	52
17	81	219	566	1220	2620	992	1900	3400	1320	231	77	52
18	69	231	426	1050	2240	1080	2470	3750	1220	213	77	55
19	65	604	385	8580	1960	1130	2390	3400	1300	206	73	55
20	61	362	332	22700	1780	1180	2500	2840	1100	194	69	55
21	58	270	290	21300	1680	1250	2860	2770	959	188	69	58
22	58	225	263	11800	1540	1190	3540	2880	850	176	65	61
23	55	206	284	5920	1630	1300	3700	3250	830	170	65	58
24	55	231	619	4470	2000	1360	2790	3380	770	176	65	55
25	52	237	2000	9510	2470	1380	2130	3080	703	165	65	58
26	52	213	1370	14900	2280	1480	1870	2940	611	155	61	55
27	49	194	810	7180	1980	1680	1800	2670	575	145	58	55
28	49	176	780	4810	2330	1950	1910	2550	530	136	58	55
29	52	170	780	3570	---	2210	2360	2420	494	136	58	55
30	65	182	647	2840	---	2510	2500	2680	468	126	58	55
31	77	---	557	2280	---	3100	---	2810	---	126	55	---
TOTAL	1902	8250	15863	141706	60050	45198	71390	98780	40210	8004	2501	1647
MEAN	61.4	275	512	4571	2145	1458	2380	3186	1340	258	80.7	54.9
MAX	150	1020	2000	22700	3570	3100	3700	4620	2630	460	116	61
MIN	34	65	160	426	1540	882	1770	1940	468	126	55	52
AC-FT	3770	16360	31460	281100	119100	89650	141600	195900	79760	15880	4960	3270

CAL YR 1968 TOTAL 196973 MEAN 538 MAX 7920 MIN 34 AC-FT 390700
WTR YR 1969 TOTAL 495501 MEAN 1358 MAX 22700 MIN 34 AC-FT 982800

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	81	89	665	2060	1770	665	629	684	188	65	52
2	58	81	89	593	1830	1820	665	703	694	176	65	52
3	55	81	89	530	1670	1400	674	830	684	165	65	49
4	52	81	89	476	1530	1250	674	1040	665	165	65	49
5	52	129	89	434	1430	1190	694	1120	611	165	65	46
6	52	334	85	400	1300	1100	760	1240	566	160	61	52
7	52	234	85	385	1210	1080	790	1060	512	155	61	52
8	55	182	93	378	1150	1640	770	959	476	141	61	52
9	65	155	116	629	1100	1670	760	970	575	141	58	49
10	61	145	121	2940	1050	1540	810	1100	647	136	58	49
11	55	131	194	1620	1010	1380	820	882	476	131	58	46
12	52	131	231	1500	1100	1240	800	722	400	126	58	43
13	52	131	225	2860	1410	1210	760	656	370	116	58	43
14	55	136	263	8350	1680	1370	741	770	348	116	55	43
15	81	136	206	5300	1360	1520	656	992	340	111	55	43
16	284	145	170	14300	1270	1310	620	1210	318	106	55	46
17	553	194	155	12600	2140	1250	593	1500	311	101	55	43
18	263	155	145	6850	1680	1100	575	1560	304	97	55	43
19	165	131	226	4600	1410	992	611	1420	311	93	55	43
20	126	121	3840	6390	1240	915	638	1150	332	85	55	43
21	111	116	7550	21100	1130	882	566	959	325	85	52	43
22	101	111	3330	20900	1050	882	530	1000	304	81	52	43
23	97	106	1850	9230	981	904	512	1040	290	81	52	43
24	97	101	9730	10800	948	937	512	1040	277	81	49	40
25	93	101	6110	6380	915	992	512	1010	256	77	49	40
26	89	101	3200	4580	882	948	593	1060	244	73	49	40
27	85	97	1880	7020	871	860	638	1020	270	73	49	40
28	85	93	1340	4750	882	790	566	840	270	69	49	40
29	85	93	1050	3570	---	800	521	732	237	69	49	43
30	85	89	871	2880	---	780	548	703	213	69	49	46
31	81	---	750	2360	---	722	---	722	---	69	52	---
TOTAL	3255	3922	44261	165370	36289	36244	19574	30639	12310	3501	1734	1356
MEAN	105	131	1428	5335	1296	1169	652	988	410	113	55.9	45.2
MAX	553	334	9730	21100	2140	1820	820	1560	694	188	65	52
MIN	52	81	85	378	871	722	512	629	213	69	49	40
AC-FT	6460	7780	87790	328000	71980	71890	38830	60770	24420	6940	3440	2690

CAL YR 1969 TOTAL 520924 MEAN 1427 MAX 22700 MIN 52 AC-FT 1033000
WTR YR 1970 TOTAL 358455 MEAN 982 MAX 21100 MIN 40 AC-FT 711000

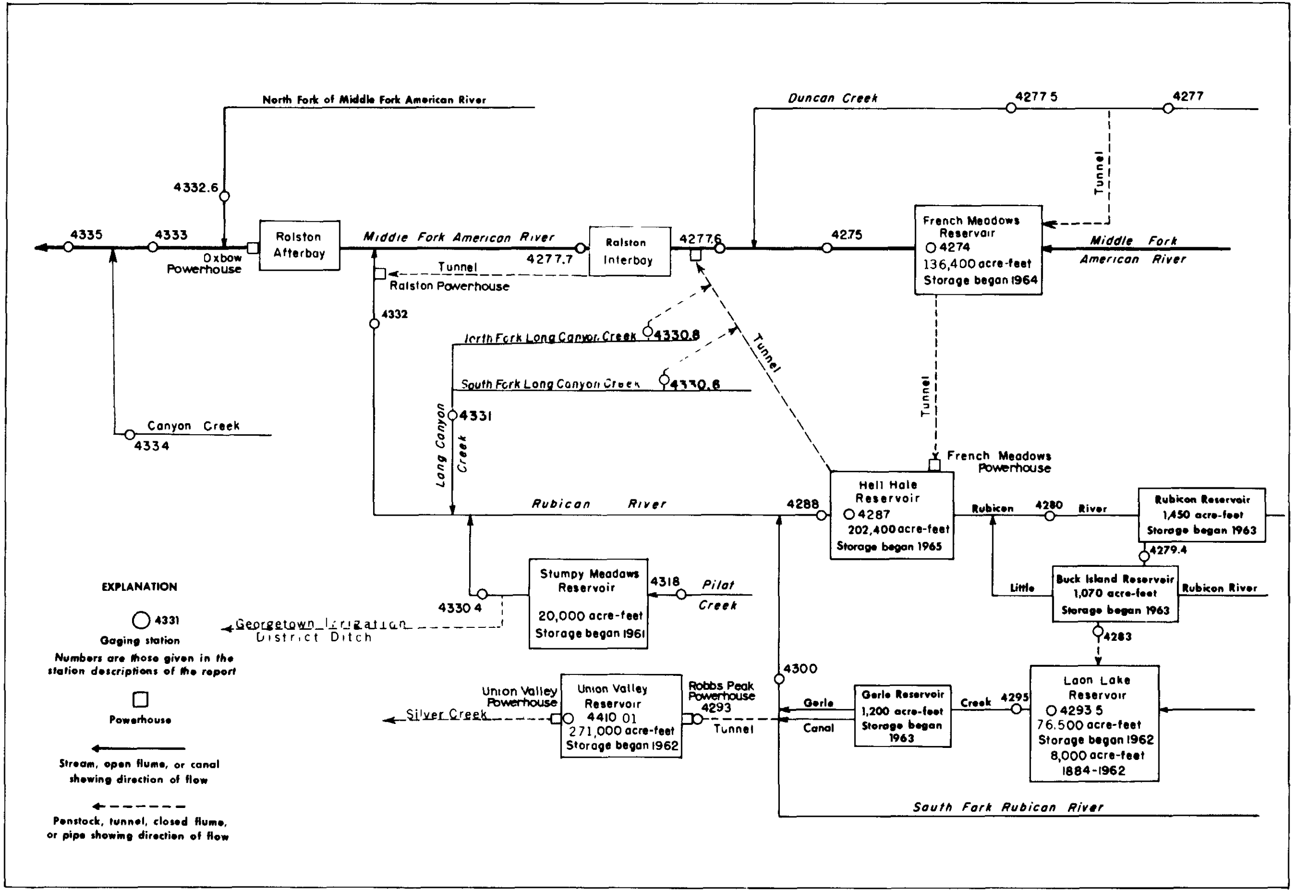

North Fork of Middle Fork American River
4332.6
4335
4333
Oxbow Powerhouse
Ralston Afterbay
Middle Fork American River
Tunnel
Ralston Powerhouse
4277.7
Ralston Interbay
4277.6
4332
Canyon Creek
4334
Duncan Creek
4277.5
4277
Tunnel
4275
French Meadows Reservoir
4274
136,400 acre-feet
Storage began 1964
Middle Fork American River
North Fork Long Canyon Creek
4330.8
South Fork Long Canyon Creek
4330.6
Tunnel
4331
Long Canyon Creek
Tunnel
French Meadows Powerhouse
Rubicon River
4288
Hell Hole Reservoir
4287
202,400 acre-feet
Storage began 1965
Rubicon
4280
River
Rubicon Reservoir
1,450 acre-feet
Storage began 1963
4279.4
Little
Buck Island Reservoir
1,070 acre-feet
Storage began 1963
Rubicon River
4283
Stumpy Meadows Reservoir
20,000 acre-feet
Storage began 1961
4318
Pilot Creek
4330.4
Georgetown Irrigation District Ditch
4300
Laon Lake Reservoir
4293.5
76,500 acre-feet
Storage began 1962
8,000 acre-feet
1884-1962
4295
Creek
Gerle Reservoir
1,200 acre-feet
Storage began 1963
Gerle
Canal
Robbs Peak Powerhouse
4293
Tunnel
Union Valley Reservoir
4410.01
271,000 acre-feet
Storage began 1962
Union Valley Powerhouse
Silver Creek
South Fork Rubicon River
EXPLANATION
4331
Gaging station
Numbers are those given in the station descriptions of the report
Powerhouse
Stream, open flume, or canal showing direction of flow
Penstock, tunnel, closed flume, or pipe showing direction of flow

FIGURE 8.--Schematic diagram showing diversions and storage in Middle Fork American and Rubicon River basins.

11427400 FRENCH MEADOWS RESERVOIR NEAR FORESTHILL, CALIF.

LOCATION.--Lat 39°06'32", long 120°25'49", in SW¼NE¼ sec.32, T.15 N., R.14 E., Placer County, Tahoe National Forest, on left bank 2.2 miles upstream from dam on Middle Fork American River, 6.9 miles upstream from Chipmunk Creek, and 21 miles northeast of Foresthill.

DRAINAGE AREA.--47.0 sq mi.

PERIOD OF RECORD.--December 1964 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Placer County Water Agency).

EXTREMES.--Maximums and minimums (contents in acre-feet, elevation in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum		
Wtr yr	Date	Contents	Elevation	Date	Contents	Elevation
1966	May 19, 1966	137,700	5,263.9	Feb. 15-17, 1966	79,900	5,217.3
1967	July 7-9, 1967	136,100	5,262.8	May 8, 1967	76,500	5,214.1
1968	June 8-17, 1968	130,500	5,258.8	(a)	58,000	5,195.2
1969	June 14, 1969	136,500	5,263.1	Apr. 11, 1969	46,400	5,181.9
1970	June 29, 30, 1970	127,100	5,256.3	Dec. 18, 1969	50,300	5,186.6

a Dec. 22-27, 1967, Jan. 9-13, 1968.

Period of record: Maximum contents, 137,700 acre-ft May 19, 1966 (elevation, 5,263.9 ft); minimum since reservoir first filled, 46,400 acre-ft Apr. 11, 1969 (elevation, 5,181.9 ft).

REMARKS.--Reservoir is formed by a rockfill dam with earth core. Storage began Dec. 21, 1964. Usable capacity, 125,600 acre-ft between elevations 5,125 (minimum operating level) and 5,263 ft (top of radial gates). Dead storage, 10,800 acre-ft. Reservoir is used to store water for hydroelectric power. Up to 400 cfs is diverted in reservoir through tunnel from Duncan Creek. Water is released through tunnel to French Meadows powerplant and then into Hell Hole Reservoir on Rubicon River; releases began Dec. 13, 1965. Records, including extremes, represent total contents. See schematic diagram of Middle Fork American and Rubicon River basins elsewhere in this report.

COOPERATION.--One hundred and twenty nonrecording gage readings furnished by Placer County Water Agency in connection with a Federal Power Commission project.

Capacity table, water years 1966-70 (elevation, in feet, and contents, in acre-feet)

5,170	37,100	5,230	94,100
5,200	62,400	5,270	146,500

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127000	111500	112100	99700	88800	80700	91900	122900	132100	128700	127800	126000
2	126600	111500	112100	99700	88100	80800	93300	123800	131600	128700	127800	126000
3	126000	111500	112100	99700	87500	80800	94400	125100	131600	128700	127800	125900
4	125600	111500	112000	99800	86800	80800	95500	126100	131800	128600	127600	125900
5	125200	111400	112000	100000	86300	80800	96800	127200	131800	128600	127600	125900
6	124700	111400	112000	100100	85600	80900	97900	128300	131900	128600	127500	125700
7	124300	111400	112000	100100	84900	81000	99200	129300	131900	128600	127500	125700
8	123700	111400	112000	100200	84300	81100	100500	130200	131600	128500	127400	125700
9	123200	111400	111900	100200	83600	81300	101700	131400	131400	128500	127400	125700
10	122800	111400	111900	100300	82800	81700	103200	132600	131100	128500	127200	127600
11	122200	111200	111900	100300	82200	82000	104200	133600	130800	128500	127200	125600
12	121700	111200	111900	100300	81500	82300	105000	134300	130500	128500	127100	125600
13	121000	111400	111700	100300	80900	82700	105800	135100	130500	128500	127100	125600
14	120500	111600	111000	100300	80100	82500	106600	135800	130500	128300	127100	125500
15	120000	111700	110200	99800	79900	83000	107600	136400	130200	128300	127000	125300
16	119300	111900	109500	99100	79900	83800	108700	137000	130000	128300	126800	125300
17	118800	112100	108800	98500	79900	84000	110000	137400	129700	128300	126800	125300
18	118000	112700	108100	98100	80000	84200	111100	137700	129400	128200	126700	125300
19	117400	112700	107400	97300	80000	84500	112000	137400	129000	128200	126700	125200
20	116600	112600	106600	96600	80100	84600	112700	137100	128900	128200	126600	125200
21	115900	112500	105900	95900	80100	84800	113500	136800	128900	128200	126600	125200
22	115200	112500	105100	95400	80300	85000	114100	136500	128900	128200	126600	125200
23	114400	112500	104400	94700	80400	85300	115000	136500	128900	128000	126400	124900
24	113600	112500	103800	93800	80500	85600	115900	136500	128900	128000	126400	124100
25	112900	112400	103300	93400	80500	85900	117000	136400	128900	128000	126400	123200
26	112100	112400	102600	92700	80600	86400	118200	136000	128900	127900	126300	122400
27	111600	112300	101900	92000	80600	87000	119200	135600	128900	127900	126300	121600
28	111600	112300	101400	91300	80700	88300	120100	134600	128900	127900	126300	120800
29	111600	112200	100700	90600	---	88700	121000	133900	128700	127900	126100	120000
30	111600	112100	100200	90100	---	89600	122000	133400	128700	127800	126100	119100
31	111500	---	99700	89400	---	90600	---	133000	---	---	126000	---
MAX	127000	112700	112100	100300	88800	90600	122000	137700	132100		127800	127600
MIN	111500	111200	99700	89400	79900	80700	91900	122900	128700		126000	119100
(†)	5244.4	4244.9	5234.8	5225.9	5218.0	5227.0	5252.5	5260.6	5257.5	5256.8	5255.5	5250.3
(‡)	-25900	+600	-12400	-10300	-8700	+9900	+31400	+11000	-4300	-900	-1800	-6900

CAL YR 1965 MAX 1356000 MIN 64700 ‡ +35500
WTR YR 1966 MAX 137700 MIN 7990 ‡ -8300

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11427400 FRENCH MEADOWS RESERVOIR NEAR FORESTHILL, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118300	103800	104300	91800	96500	90600	90300	79200	103700	135100	126100	105800
2	117500	103200	104800	91000	96800	90100	89800	78600	103900	135800	125600	105000
3	116600	102600	104900	90400	96600	89600	89400	78100	104300	136000	125100	104400
4	115800	102000	104500	89800	96800	89000	88900	77600	104900	136000	124400	103700
5	115200	101400	104900	89700	96900	88400	88600	77200	106400	135800	123700	103000
6	114500	100900	105600	89500	96800	87800	88700	76700	107500	135800	123000	102200
7	114100	100300	105600	89500	96600	87300	89000	76600	108600	136100	122400	101500
8	114100	99700	105100	89700	96900	86800	89300	76500	109800	136100	121700	100800
9	114100	99500	104700	89500	96800	86400	89600	76700	111500	136100	121000	100100
10	113800	99500	104400	89300	96800	85900	89800	76900	112900	136000	120400	99400
11	113500	99500	103900	89200	96900	85700	89700	76900	114300	136000	119700	98600
12	113500	99400	103600	88900	97000	86100	89300	76700	115800	135700	118900	97900
13	113300	99400	103100	88700	97000	86600	88700	76600	117400	135600	118300	97200
14	113300	99400	102700	88900	96900	86800	88400	76600	118900	135300	117600	96400
15	113100	99500	102400	89000	96800	87000	87800	76600	120700	135100	116900	95700
16	113100	100000	101900	88800	96500	89700	87300	77500	122600	134900	116200	94900
17	112700	100000	101400	88700	96300	91800	86900	78200	124800	134400	115600	94300
18	112200	100100	100800	88600	96200	92300	86500	80300	127000	134000	115000	93500
19	111600	100200	100300	88600	95800	92600	86000	81700	129100	133600	114400	93000
20	111000	100900	99800	88800	95400	92600	85500	83700	131200	133000	113600	92000
21	110300	101300	99200	89700	94900	92600	85000	85800	132500	132600	113000	91300
22	109700	101400	98600	89800	94400	92500	84500	88400	132200	131900	112400	90600
23	109200	101400	97900	90100	93800	92500	83900	90500	131900	131500	112000	89800
24	108500	101400	97300	90500	93400	92500	83400	93000	132300	130900	111400	89200
25	108000	101400	96600	90600	92800	92200	82600	94900	132800	130400	110600	88500
26	107400	101500	95900	91000	92200	92000	82100	96600	133200	129800	110000	87800
27	106700	101500	95200	91300	91700	91700	81500	98200	132600	129100	109300	87100
28	106100	102500	94500	92000	91100	91400	81000	99500	132500	128600	108600	86500
29	105500	103700	93700	93800	---	91100	80400	100900	133300	128000	107800	85900
30	104900	104000	93000	95400	---	91000	79800	102100	134400	127500	107200	85800
31	104400	---	92300	96200	---	90700	---	103100	---	126800	106500	---
MAX	118300	104000	105600	96200	97000	92600	90300	103100	134400	136100	126100	105800
MIN	104400	99400	92300	88600	91100	85700	79800	76500	103700	126800	106500	85800
(†)	5238.7	5238.4	5228.5	5231.8	5227.4	5227.1	5217.2	5237.6	5261.6	5256.1	5249.4	5222.7
(‡)	-14700	-400	-11700	+3900	-5100	-400	-10900	+23300	+31300	-7600	-20300	-20700

CAL YR 1966 MAX 137700 MIN 79900 ‡ -7400
WTR YR 1967 MAX 136100 MIN 85700 ‡ -33300

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85800	70900	61400	58100	59500	80100	94000	113900	129600	128300	116300	103900
2	85600	70100	61300	58100	59500	80800	94700	114900	129800	127800	115900	103900
3	84800	69600	61200	58100	59900	81400	95100	115900	130000	127100	115900	103400
4	84200	69600	60900	58100	60100	82000	95800	117100	130100	126600	115900	102700
5	83400	69600	60700	58100	60300	82600	96400	117900	130200	125900	115400	102000
6	82800	69000	60500	58100	60400	83200	96900	118700	130200	125200	114800	101400
7	82800	68200	60400	58100	60600	83700	97500	119300	130400	124700	114100	101400
8	82800	67400	60200	58100	60700	84300	98100	120000	130500	124000	113600	101300
9	82300	66600	60200	58000	60800	84600	98800	120700	130500	123400	113000	100900
10	81500	66000	60200	58000	61000	85000	99600	121300	130500	122800	112900	100400
11	80800	66000	59900	58000	61200	85400	100500	122000	130500	122100	112900	100000
12	80000	66000	59700	58000	61300	85700	101400	122500	130500	121400	112400	99200
13	79500	65400	59600	58000	61500	86100	102200	123200	130500	120800	111700	98500
14	79400	64700	59400	58100	61600	86600	103100	123600	130500	120100	111100	98400
15	79400	64100	59300	59100	61800	86800	103900	124000	130500	119500	110300	98400
16	78900	63700	59300	59300	62000	87300	104700	124400	130500	118800	109700	97900
17	78100	63200	59300	59400	62200	87600	105300	124800	130500	118200	109600	97200
18	77300	63200	58900	59500	62400	87800	105800	125100	130400	117500	109600	96600
19	76500	63400	58500	59500	63600	88000	106200	125600	130400	117100	109600	95900
20	76100	63100	58100	59700	67400	88300	106700	126100	130200	117000	109100	95200
21	76000	62700	58100	59800	69700	88500	107200	126600	130100	117000	108300	95200
22	76000	62400	58000	59900	71200	88700	107600	126800	130100	116900	107700	95100
23	75500	62300	58000	60000	73600	88900	108100	127100	130000	116900	107100	94700
24	74800	62100	58000	60200	74800	89200	108600	127200	129800	116900	107100	94000
25	74100	62100	58000	60200	76200	89600	109200	127500	129700	116700	107000	93300
26	73300	62100	58000	60200	77100	90000	109500	127900	129600	116700	106600	92700
27	72900	62100	58000	60000	77900	90300	110200	128200	129400	116700	106000	92000
28	72800	62100	58100	59900	78800	90700	111100	128600	129300	116600	105300	91900
29	72800	62000	58100	59800	79400	91400	112000	128900	129100	116600	104700	91900
30	72400	61800	58100	59500	---	92200	113000	129100	128900	116600	104000	91400
31	71600	---	58100	59400	---	93200	---	129400	---	116500	103900	---
MAX	85800	70900	61400	60200	79400	93200	113000	129400	130500	128300	116300	103900
MIN	71600	61800	58000	58000	59500	80100	94000	113900	128900	116500	103900	91400
(†)	5209.3	5199.3	5195.4	5196.8	5216.8	5229.2	5245.6	5258.0	5257.6	5248.3	5238.3	5227.7
(‡)	-14200	-9800	-3700	+1300	+20000	+13800	+19800	+16400	-500	-12400	-12600	-12500

CAL YR 1967 MAX 136100 MIN 58000 ‡ -34200
WTR YR 1968 MAX 130500 MIN 58000 ‡ +5600

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11427400 FRENCH MEADOWS RESERVOIR NEAR FORESTHILL, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90600	76200	69400	61800	79500	65000	48100	59100	125700	134700	121700	101500
2	90000	76500	69100	61500	79300	64400	48300	60400	127600	134400	121000	100800
3	89300	77400	68900	61100	79100	63800	48100	61100	129100	134200	120400	100200
4	88700	77200	68600	61100	78600	63000	48000	62300	130500	134000	119700	99500
5	88300	76600	68300	61100	78400	62400	48000	63700	131900	133900	119100	98800
6	88300	76000	68000	60900	78200	61700	47800	65800	133000	133700	118400	98200
7	87800	75400	68000	60700	77900	61100	47400	68100	134000	133400	117800	97700
8	87100	74800	68300	60500	77500	60400	47100	71000	134700	133200	117100	97000
9	86500	74700	67800	60300	77100	59700	46700	73900	135100	132800	116600	96300
10	85800	74700	67800	59700	76500	59000	46500	77400	135300	132300	115800	95600
11	85100	74800	67800	59800	76000	58300	46400	81000	135700	131900	115200	95000
12	85100	74800	67600	59900	75500	57700	46600	84000	136100	131500	114500	94300
13	85300	74100	67100	60200	74800	56900	47000	86900	136400	131100	113900	93600
14	85000	73600	67100	60000	74400	56200	47100	89300	136500	130500	113300	92900
15	84300	73000	67400	60200	73900	55500	47400	91300	136400	130100	112600	92200
16	83600	73000	66900	60100	73300	54900	47400	93300	136300	129600	112000	91500
17	83000	73000	66600	59900	72700	54300	47900	95700	136100	129000	111400	90900
18	82300	73000	66400	60100	72100	53500	48400	98300	136400	128500	110600	90200
19	82300	72600	66100	62800	71500	53000	49000	100300	136400	127900	110000	89500
20	82300	72100	65900	68900	71000	52400	49800	102100	136400	127400	109300	88800
21	81800	71500	65500	72200	70400	51800	50800	103900	136100	126800	108700	88100
22	81100	71000	65100	73300	69700	51100	52400	106000	135800	126700	108100	87500
23	80400	71000	64900	73700	69100	50500	53800	108300	135800	126700	107500	86800
24	79700	71200	64700	74100	68600	49600	54300	110500	135800	126600	106900	86100
25	79200	70800	64300	75600	68000	49100	54700	112500	135700	126000	106100	85500
26	79200	70200	63700	78200	67300	48600	54900	114500	135600	125300	105400	84700
27	79100	69700	63400	79300	66400	48300	55200	116300	135400	124800	104800	84000
28	78600	69300	62800	80300	65700	48000	55700	118000	135100	124100	104000	83400
29	78100	69300	62500	80100	--	47800	56500	119900	135000	123600	103400	82700
30	77500	69300	62300	79900	---	47800	57400	121800	134900	122900	102800	82100
31	76900	---	61800	79700	---	48000	---	124000	---	122200	102100	---
MAX	90600	77400	69400	80300	79500	65000	57400	124000	136500	134700	121700	101500
MIN	76900	69300	61800	59700	65700	47800	46400	59100	125700	122200	102100	82100
(†)	5214.4	5207.0	5199.3	5217.1	5203.4	5183.8	5194.6	5254.0	5261.9	5252.7	5236.8	5219.3
(‡)	-14500	-7600	-7500	+17900	-14000	-17700	+9400	+66600	+10900	-12700	-20100	-20000

CAL YR 1968 MAX 130500 MIN 58000 ‡ +3700
WTR YR 1969 MAX 136500 MIN 46400 ‡ -9300

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81300	66600	55200	61700	101900	91100	84700	93000	119200	127000	114400	94200
2	80500	66600	54800	61300	101600	90700	84700	93500	119900	126700	113800	94000
3	79700	65900	54300	61000	101300	90300	84700	94100	120500	126700	113000	92900
4	79600	65100	54000	60700	100900	89800	85000	94800	121200	126700	112400	92100
5	79500	64600	53600	60300	100500	89400	85500	95700	121700	126600	111700	91500
6	78900	63800	53500	60400	100200	88800	85800	96600	122200	126600	111100	90900
7	78100	63200	53400	60500	99700	88400	86000	97300	122600	126400	110500	90200
8	77900	62500	53100	60700	99400	87900	86400	98100	123300	126400	109800	89500
9	77800	61800	52800	61700	99000	87400	86700	98900	124000	126300	109300	88800
10	77700	61300	52400	62500	98600	86800	87000	99700	124300	126300	108700	88000
11	77600	60800	52100	63100	98300	86400	87500	100200	124500	126100	108100	87400
12	77500	60300	51800	63800	98100	85700	88000	100800	124800	126000	107500	86700
13	76700	59800	51800	64600	97900	85300	88500	101300	124900	125600	106900	86000
14	76200	59400	51900	66300	97500	85000	88700	102000	125100	125200	106100	85500
15	75800	59400	51500	67100	97100	84700	89000	103000	125200	124800	105500	84800
16	75800	59400	51200	73600	96800	84300	89300	104200	125300	124400	104800	84200
17	75300	59200	50800	76000	96400	83900	89400	105500	125500	124000	104000	83400
18	75300	59100	50300	72100	95900	83500	89700	106900	125600	123400	103300	82600
19	75200	58900	50800	78500	95400	83100	90100	108000	125700	123000	102700	82000
20	74700	58400	52900	80700	94900	82800	90300	109000	126000	122500	102100	81300
21	73900	58100	56100	91300	94400	83100	90500	110000	126100	121800	101400	80600
22	73200	58000	56600	96400	93800	83400	90700	111000	126400	121200	100700	79900
23	72500	58000	57100	98300	93400	83400	91000	111900	126400	120500	100300	79200
24	71800	57600	60000	100800	93000	83600	91200	113000	126600	119900	99600	78400
25	71100	57100	62100	101400	92500	83700	91400	113800	126700	119200	99000	77800
26	70400	56700	62500	101600	92000	83800	91800	114000	126800	118400	98300	77100
27	69600	56100	62700	102600	91500	83900	92000	115700	126800	117800	97600	76400
28	68900	55700	62600	102600	91200	84300	92200	116300	127000	117100	96900	75700
29	68200	55600	62500	102500	---	84700	92500	117100	127100	116500	96300	75000
30	67400	55600	62400	102400	---	84800	92700	117800	127100	115800	95600	74400
31	66700	---	62000	102100	---	84800	---	118400	---	115000	94900	---
MAX	81300	66600	62700	102600	101900	91100	92700	118400	127100	127000	114400	94200
MIN	66700	55600	50300	60300	91200	82800	84700	93000	119200	115000	94900	74400
(†)	5204.4	5192.6	5199.5	5236.8	5227.5	5221.8	5228.8	5249.8	5256.3	5247.2	5230.7	5212.0
(‡)	-15400	-11100	+6400	+41100	-10900	-6400	+7900	+25700	+8700	-12100	-20100	-20500

CAL YR 1969 MAX 136500 MIN 46400 ‡ +200
WTR YR 1970 MAX 127100 MIN 50300 ‡ -7700

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11427500 MIDDLE FORK AMERICAN RIVER AT FRENCH MEADOWS, CALIF.

LOCATION.--Lat 39°06'35", long 120°28'49", in W½NW¼ sec.36, T,15 N., R.13 E., Placer County, Tahoe National Forest, on left bank 0.6 mile downstream from French Meadows Dam, 4.1 miles upstream from Chipmunk Creek, and 14 miles south of Cisco.

DRAINAGE AREA.--47.9 sq mi.

PERIOD OF RECORD.--October 1951 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 4,920 ft (from topographic map). Prior to Oct. 1, 1962, at site 0.8 mile upstream at different datum.

AVERAGE DISCHARGE.--13 years (1951-64, prior to regulation by French Meadows Reservoir), 149 cfs (107,900 acre-ft per year); 6 years (1964-70), 35.4 cfs (25,650 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Oct. 22, 1965	418	6.22	Many days	8.2
1967	June 27, 1967	846	7.01	Nov. 4, 5, 1966	6.3
1968	Feb. 20, 1968	64	4.92	Oct. 1, 1967	7.6
1969	June 14, 1969	518	6.37	Dec. 16, 17, 1968	8.3
1970	Jan. 21, 1970	143	5.34	Many days	8.1

Period of record: Maximum discharge, 21,500 cfs Jan. 31, 1963 (gage height, 14.20 ft), from rating curve extended above 1,100 cfs on basis of peak flow at former site; minimum, 0.30 cfs Oct. 4, 5, 21-25, 1960, Oct. 5, 6, 1961. Maximum discharge since construction of French Meadows Dam in 1964, 1,310 cfs Apr. 30, 1965 (gage height, 7.68 ft); minimum daily, 0.80 cfs Oct. 22, 25, 1964.

REMARKS.--Records good. Since December 1964, flow regulated by French Meadows Reservoir 0.6 mile upstream (see station 11427400). Diversions from Duncan Creek to French Meadows Reservoir since December 1964 and from French Meadows Reservoir to Hell Hole Reservoir since December 1965. See schematic diagram of Middle Fork American and Rubicon River basins elsewhere in this report.

COOPERATION.--Records for the water year 1970 collected by Placer County Water Agency under general supervision of the Geological Survey, in connection with a Federal Power Commission project.

REVISIONS (WATER YEARS).--WSP 1445: 1953-54. WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	232	10	44	16	11	11	18	11	208	8.2	8.6	9.0
2	232	9.9	41	15	11	11	16	11	150	8.4	8.6	9.0
3	232	9.5	38	15	11	11	16	11	13	8.2	8.6	9.0
4	250	9.2	36	15	12	11	15	11	13	8.4	8.6	9.0
5	264	9.0	34	15	12	12	15	11	13	8.4	8.4	9.0
6	264	9.0	33	15	12	12	14	11	12	8.6	8.4	9.2
7	264	8.8	30	15	12	12	14	11	86	8.8	8.4	9.2
8	264	8.6	25	14	12	13	13	11	208	9.2	8.4	9.0
9	267	8.4	24	14	11	14	13	11	220	9.2	8.4	9.0
10	267	8.2	20	14	11	17	16	12	224	8.8	8.4	9.0
11	267	8.2	19	14	11	15	15	11	205	8.6	8.4	9.0
12	288	8.2	19	14	11	16	14	11	190	8.6	8.4	9.0
13	316	8.2	19	13	11	17	14	11	63	8.6	8.4	9.0
14	320	9.9	19	13	11	16	13	11	67	8.6	8.4	9.0
15	320	10	18	14	11	15	13	11	196	8.6	8.4	9.0
16	323	12	18	13	11	14	13	22	193	8.6	8.2	8.8
17	323	28	18	13	11	13	13	87	193	8.6	8.2	8.8
18	334	105	18	12	11	13	13	190	193	8.6	8.2	9.0
19	366	125	18	12	11	13	13	199	193	8.6	9.0	9.0
20	382	112	18	12	11	13	12	88	95	8.6	9.0	9.0
21	378	99	17	12	11	13	12	53	10	8.6	9.0	9.0
22	394	84	17	12	11	13	12	27	10	8.4	9.0	9.0
23	414	84	17	12	11	14	12	16	9.9	8.4	9.2	8.8
24	410	90	17	11	11	14	12	13	9.9	8.4	9.2	8.8
25	406	90	17	12	11	15	12	15	9.7	8.4	9.2	8.8
26	406	81	17	11	11	16	12	10	9.7	8.4	9.2	8.8
27	26	70	16	11	11	16	12	90	9.7	8.4	9.2	8.8
28	11	61	16	11	11	17	11	262	9.7	8.4	9.2	8.6
29	11	54	16	11	---	18	11	330	8.8	8.6	9.2	8.6
30	11	50	16	11	---	18	11	330	8.2	8.6	8.8	8.6
31	10	---	16	11	---	18	---	255	---	8.6	9.0	---
TOTAL	8252	1280.1	691	403	313	441	400	2153	2830.6	265.4	269.6	267.8
MEAN	266	42.7	22.3	13.0	11.2	14.2	13.3	69.5	94.4	8.56	8.70	8.93
MAX	414	125	44	16	12	18	18	330	224	9.2	9.2	9.2
MIN	10	8.2	16	11	11	11	11	10	8.2	8.2	8.2	8.6
AC-FT	16370	2540	1370	799	621	875	793	4270	5610	526	535	531
(†)	0	0	13110	12060	10350	0	0	7140	1190	0	680	6500

CAL YR 1965 TOTAL 42525.0 MEAN 117 MAX 1190 MIN 6.1 AC-FT 84350
WTR YR 1966 TOTAL 17566.5 MEAN 48.1 MAX 414 MIN 8.2 AC-FT 34840

† DIVERSION, IN ACRE-FEET, FROM FRENCH MEADOWS RESERVOIR TO HELL HOLE RESERVOIR THROUGH FRENCH MEADOWS POWERPLANT.

11427500 MIDDLE FORK AMERICAN RIVER AT FRENCH MEADOWS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.6	6.6	12	9.7	14	11	12	11	14	8.4	8.6	7.8
2	8.8	6.5	17	9.7	13	11	12	11	13	89	8.6	7.8
3	8.8	6.5	13	9.7	12	11	12	11	13	211	8.6	7.8
4	8.6	6.3	11	9.7	12	11	12	11	13	211	8.6	7.8
5	8.6	6.3	15	9.7	12	11	12	11	15	208	8.6	7.8
6	8.6	6.8	20	9.5	12	11	12	13	14	96	8.6	7.8
7	8.6	6.8	13	9.5	12	11	12	14	14	8.4	8.6	7.8
8	8.8	6.5	12	9.5	11	11	12	15	13	8.4	8.6	7.8
9	8.6	6.5	11	9.5	11	11	12	15	13	8.4	8.6	7.6
10	8.6	7.0	12	9.5	12	11	12	15	13	8.4	8.6	7.4
11	8.8	7.4	12	9.5	12	11	12	14	13	8.4	8.6	7.4
12	8.8	7.4	11	9.5	12	11	12	13	14	8.4	8.6	7.4
13	8.6	7.6	11	9.5	12	11	12	14	13	8.4	8.6	7.4
14	8.6	7.6	11	9.5	12	11	12	14	12	8.4	8.6	7.4
15	8.6	7.8	11	9.5	12	11	12	16	12	8.4	8.6	7.4
16	8.6	9.2	11	9.5	11	30	12	18	12	8.6	8.6	7.4
17	8.4	8.6	11	9.5	11	22	12	18	12	8.6	8.6	7.6
18	8.2	8.0	11	9.5	11	17	12	19	12	8.6	8.6	7.8
19	8.2	8.6	11	9.5	11	15	12	19	11	8.6	8.6	7.6
20	8.2	11	11	9.5	11	15	11	21	12	8.6	8.4	7.4
21	8.2	9.0	11	14	11	15	11	22	345	8.4	8.2	7.4
22	8.2	8.8	11	12	11	14	11	21	804	8.4	8.2	7.4
23	8.0	8.4	11	11	11	16	11	20	600	8.4	8.2	7.4
24	7.8	8.4	11	10	11	14	11	19	438	8.4	8.2	7.4
25	7.8	8.4	11	10	11	14	11	18	438	8.4	8.2	7.4
26	7.8	8.4	10	11	11	13	11	17	418	8.4	8.2	7.6
27	7.8	8.6	10	13	11	13	11	16	799	8.4	8.2	7.6
28	7.6	11	10	14	11	13	11	16	507	8.4	8.2	7.6
29	7.6	12	10	28	---	13	11	15	99	8.6	8.0	7.6
30	7.4	9.5	10	21	---	12	11	14	8.4	8.6	7.8	7.6
31	7.0	---	9.9	16	---	12	---	14	---	8.6	7.8	---
TOTAL	256.8	241.5	361.9	351.0	324	413	349	485	4714.4	1035.0	261.0	227.2
MEAN	8.28	8.05	11.7	11.3	11.6	13.3	11.6	15.6	157	33.4	8.42	7.57
MAX	8.8	12	20	28	14	30	12	22	804	211	8.6	7.8
MIN	7.0	6.3	9.9	9.5	11	11	11	11	8.4	8.4	7.8	7.4
AC-FT	509	479	718	696	643	819	692	962	9350	2050	518	451
(†)	18590	7080	22940	6320	15410	21750	19070	24510	19860	21600	21200	21020

CAL YR 1966 TOTAL 8203.6 MEAN 22.5 MAX 330 MIN 6.3 AC-FT 16270
WTR YR 1967 TOTAL 9019.8 MEAN 24.7 MAX 804 MIN 6.3 AC-FT 17890

† DIVERSION, IN ACRE-FEET, FROM FRENCH MEADOWS RESERVOIR TO HELL HOLE RESERVOIR THROUGH FRENCH MEADOWS POWERPLANT.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	8.4	9.0	9.0	9.5	15	15	12	13	12	11	9.9
2	8.4	8.4	9.0	8.8	10	14	15	12	13	12	11	9.9
3	8.0	8.4	9.0	8.8	11	14	14	12	13	12	11	9.9
4	7.8	8.4	9.5	8.8	10	14	14	12	13	12	10	9.9
5	7.8	8.4	10	8.8	9.9	14	14	12	13	12	10	9.9
6	7.8	8.4	9.5	8.8	9.9	14	14	12	13	12	10	9.9
7	8.0	8.4	9.5	8.8	9.9	14	14	12	13	12	10	9.9
8	7.8	8.4	9.2	8.8	9.9	14	14	12	13	12	10	9.9
9	7.8	8.4	9.2	8.8	10	14	14	12	13	12	10	9.9
10	7.8	8.6	9.2	9.0	10	13	14	12	13	12	10	9.9
11	7.8	9.0	9.2	9.0	9.9	13	14	12	13	12	10	9.9
12	8.0	9.0	9.2	9.0	9.9	13	14	12	13	12	10	9.9
13	8.0	9.0	9.0	9.0	9.9	13	14	12	13	12	10	9.5
14	8.0	9.7	9.0	9.2	9.9	13	13	12	12	12	10	9.5
15	7.8	9.5	9.0	14	9.9	13	13	12	12	11	10	9.5
16	7.8	9.5	9.0	11	10	13	13	12	12	11	10	9.5
17	8.0	9.2	9.0	9.9	21	13	13	12	12	11	10	9.5
18	8.0	9.2	8.8	9.7	16	13	13	12	12	11	9.9	9.5
19	8.0	9.9	8.8	9.5	22	13	13	12	12	11	11	9.7
20	8.0	9.5	8.8	9.5	33	13	13	12	12	11	10	9.2
21	8.0	9.2	8.8	9.5	36	13	13	12	12	11	9.9	9.5
22	8.2	9.0	8.8	9.7	22	13	13	12	12	11	9.9	9.2
23	8.2	9.0	8.8	9.9	27	13	13	12	12	11	9.9	9.2
24	8.2	9.0	8.8	9.9	19	13	13	12	12	11	9.9	9.2
25	8.2	9.0	9.0	9.9	16	14	12	12	12	11	9.9	9.2
26	8.2	9.0	9.2	9.9	16	14	12	12	12	11	9.9	9.2
27	8.2	9.0	9.2	9.9	15	14	12	13	12	11	9.9	9.2
28	8.4	9.0	9.2	9.7	15	14	12	12	12	11	9.9	9.2
29	8.4	9.0	9.2	9.5	15	15	12	13	12	11	9.9	9.2
30	8.4	9.0	9.0	9.7	---	15	12	13	12	11	9.7	9.2
31	8.4	---	9.0	9.5	---	15	---	13	---	11	9.7	---
TOTAL	249.0	267.9	281.9	295.3	432.6	423	399	376	373	355	312.4	287.0
MEAN	8.03	8.93	9.09	9.53	14.9	13.6	13.3	12.1	12.4	11.5	10.1	9.57
MAX	8.4	9.9	10	14	36	15	15	13	13	12	11	9.9
MIN	7.6	8.4	8.8	8.8	9.5	13	12	12	12	11	9.7	9.2
AC-FT	494	531	559	586	858	839	791	746	740	704	620	569
(†)	13680	9800	3880	1720	244	0	328	3180	4150	12680	12920	12310

CAL YR 1967 TOTAL 8958.4 MEAN 24.5 MAX 804 MIN 7.4 AC-FT 17770
WTR YR 1968 TOTAL 4052.1 MEAN 11.1 MAX 36 MIN 7.6 AC-FT 8040

† DIVERSION, IN ACRE-FEET, FROM FRENCH MEADOWS RESERVOIR TO HELL HOLE RESERVOIR THROUGH FRENCH MEADOWS POWERPLANT.

11427500 MIDDLE FORK AMERICAN RIVER AT FRENCH MEADOWS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	9.8	9.8	10	14	9.5	19	22	12	9.8	9.2	10
2	8.9	12	9.8	9.5	13	9.2	17	22	12	9.8	9.2	10
3	8.9	16	9.8	9.5	12	9.2	16	20	12	9.2	9.2	10
4	8.9	11	9.8	9.8	12	9.2	16	21	12	9.2	9.2	10
5	8.9	10	9.5	9.8	12	8.9	21	24	12	9.2	9.5	10
6	8.9	9.8	9.5	9.8	12	8.9	16	25	12	9.2	9.5	10
7	8.9	9.8	9.5	10	11	8.9	14	26	12	9.2	9.5	10
8	9.5	9.8	9.5	10	11	8.9	14	27	12	9.2	9.8	10
9	9.2	9.8	9.5	10	11	8.9	14	25	13	9.2	9.8	10
10	9.2	9.8	12	10	11	8.9	15	25	12	9.2	9.8	10
11	9.2	10	12	10	12	8.9	18	24	12	9.2	10	10
12	9.5	10	10	10	12	8.9	19	23	12	9.2	10	10
13	9.8	10	9.5	20	11	9.2	19	22	99	9.2	10	10
14	9.5	10	8.6	22	11	9.5	18	20	220	9.2	10	10
15	9.5	10	8.6	14	11	9.2	16	18	506	9.2	10	10
16	9.5	10	8.3	13	11	9.2	18	18	502	9.2	10	10
17	9.5	10	8.3	12	11	9.5	20	18	348	8.9	10	10
18	9.5	11	8.9	15	11	9.8	21	16	153	8.9	10	10
19	9.5	10	9.2	58	11	10	21	16	192	8.9	10	10
20	9.5	10	9.5	85	11	10	22	16	185	8.9	10	9.8
21	9.5	10	9.5	67	10	10	24	14	182	8.9	10	9.8
22	9.5	10	9.2	27	10	9.8	24	14	170	8.9	10	9.8
23	10	10	9.2	20	10	10	23	14	62	8.9	10	9.8
24	9.5	10	10	19	10	10	19	13	10	8.9	10	9.8
25	9.5	10	10	41	10	10	18	13	10	9.2	10	9.8
26	9.5	9.8	9.8	42	9.8	12	18	13	10	9.2	10	9.5
27	9.5	9.8	9.8	22	9.5	14	18	13	10	9.2	10	9.2
28	9.5	9.8	9.8	19	9.5	14	21	13	9.8	9.5	10	9.2
29	9.8	9.8	9.8	16	---	16	22	12	9.8	9.5	10	8.9
30	10	9.8	9.8	15	---	18	22	12	9.8	9.2	10	8.9
31	9.8	---	10	14	---	19	---	12	---	9.2	10	---
TOTAL	291.6	307.8	298.5	659.4	309.8	327.5	563	571	2833.4	284.6	304.7	294.5
MEAN	9.41	10.3	9.63	21.3	11.1	10.6	18.8	18.4	94.4	9.18	9.83	9.82
MAX	10	16	12	85	14	19	24	27	506	9.8	10	10
MIN	8.9	9.8	8.3	9.5	9.5	8.9	14	12	9.8	8.9	9.2	8.9
AC-FT	578	611	592	1310	614	650	1120	1130	5620	565	604	584
(†)	14900	11910	9950	6920	20360	22840	19170	28020	19620	18010	20670	20020

CAL YR 1968 TOTAL 4151.2 MEAN 11.3 MAX 36 MIN 8.3 AC-FT 8230
WTR YR 1969 TOTAL 7045.8 MEAN 19.3 MAX 506 MIN 8.2 AC-FT 13980

† DIVERSION, IN ACRE-FEET, FROM FRENCH MEADOWS RESERVOIR TO HELL HOLE RESERVOIR THROUGH FRENCH MEADOWS POWERPLANT.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	9.0	8.4	10	15	14	11	9.3	11	11	11	10
2	8.1	9.0	8.4	10	14	13	11	9.3	11	11	11	10
3	8.1	9.0	8.4	10	14	13	11	9.0	11	11	11	10
4	8.1	9.0	8.1	9.7	13	13	11	8.7	11	11	11	10
5	8.1	9.3	8.1	9.7	13	13	11	9.0	11	11	11	10
6	8.1	9.3	8.1	9.7	13	13	11	9.0	11	11	11	10
7	8.1	9.0	8.1	9.3	13	13	11	9.0	11	11	11	10
8	8.7	9.0	8.1	9.7	13	13	10	9.0	11	11	11	10
9	8.7	9.0	8.1	17	13	13	10	9.0	12	11	11	10
10	8.7	8.7	8.1	17	13	13	10	9.3	11	11	11	9.7
11	8.4	8.7	8.1	14	12	13	10	9.3	11	11	11	8.8
12	8.4	8.7	8.4	17	13	13	10	9.7	11	11	11	9.7
13	8.4	8.7	8.4	23	13	13	10	9.7	11	11	11	9.7
14	8.7	8.7	8.4	49	13	14	10	9.0	11	12	11	9.7
15	10	8.7	8.1	23	13	14	10	9.0	11	12	11	9.0
16	10	8.7	8.1	79	13	13	10	9.7	11	12	11	9.7
17	9.3	8.7	8.1	52	14	13	9.7	9.3	11	12	11	9.3
18	9.0	8.7	8.1	25	13	13	10	9.7	11	12	11	9.3
19	9.0	8.7	12	29	13	13	10	10	11	12	11	9.3
20	9.0	8.7	18	29	13	12	10	10	11	12	11	9.3
21	9.0	8.7	27	101	13	12	9.7	10	11	12	10	9.3
22	9.0	8.4	13	45	13	12	9.7	10	11	12	10	9.3
23	8.7	8.4	20	26	13	12	10	10	11	12	10	9.3
24	8.7	8.4	48	29	13	12	10	10	11	12	10	9.0
25	8.7	8.4	28	21	12	12	10	10	11	12	11	9.0
26	8.7	8.4	17	19	12	12	10	12	11	12	11	9.0
27	8.7	8.4	13	35	12	11	9.3	11	11	12	10	9.0
28	8.7	8.4	12	21	13	11	9.3	11	11	12	10	9.0
29	8.7	8.4	11	17	---	11	9.3	11	11	11	10	9.0
30	8.7	8.4	11	17	---	11	9.3	11	11	11	10	8.7
31	8.7	---	11	15	---	11	---	11	---	11	10	---
TOTAL	269.6	261.6	388.6	798.1	365	389	303.3	303.0	331	356	332	284.1
MEAN	8.70	8.72	12.5	25.7	13.0	12.5	10.1	9.77	11.0	11.5	10.7	9.47
MAX	10	9.3	48	101	15	14	11	12	12	12	11	10
MIN	8.1	8.4	8.1	9.3	12	11	9.3	8.7	11	11	10	8.7
AC-FT	535	519	771	1580	724	772	602	601	657	706	659	564
(†)	15670	10820	10560	14460	21920	17060	2840	0	1090	11450	20550	19680

CAL YR 1969 TOTAL 7067.7 MEAN 19.4 MAX 506 MIN 8.1 AC-FT 14020
WTR YR 1970 TOTAL 4381.3 MEAN 12.0 MAX 101 MIN 8.1 AC-FT 8690

+ DIVERSION, IN ACRE-FEET, FROM FRENCH MEADOWS RESERVOIR TO HELL HOLE RESERVOIR THROUGH FRENCH MEADOWS POWERPLANT.

11427700 DUNCAN CREEK NEAR FRENCH MEADOWS, CALIF.

LOCATION.--Lat 39°08'09", long 120°28'39", in NE¼NW¼ sec.24, T.15 N., R.13 E., Placer County, Tahoe National Forest, on left bank (revised) 0.2 mile upstream from diversion dam, 0.5 mile downstream from Little Duncan Creek, 2 miles northwest of French Meadows, and 20 miles northeast of Foresthill.

DRAINAGE AREA.--9.94 sq mi.

PERIOD OF RECORD.--August 1960 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 5,270 ft (from topographic map). Prior to Sept. 3, 1965, at site 150 ft upstream at datum 9.56 ft higher.

AVERAGE DISCHARGE.--10 years, 36.2 cfs (26,230 acre-ft per year).

EXTREMES.--*Maximums and minimums (discharge in cubic feet per second, gage height in feet).*

Annual maximum discharge (*) and peak discharges above base (250 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
May 10, 1966	0200	*170	a6.83	June 18, 1967	1600	348	7.47	May 10, 1969	2000	436	7.77
Dec. 5, 1966	0600	264	7.14	Feb. 20, 1968	-	*b300	-	Dec. 21, 1969	0830	858	8.40
Jan. 29, 1967	1030	264	7.18					Dec. 24, 1969	0545	647	8.08
Mar. 16, 1967	1230	*575	7.97	Jan. 13, 1969	1900	428	7.67	Jan. 16, 1970	0545	1,610	9.23
May 17, 1967	1730	306	7.36	Jan. 19, 1969	1000	*1,550	9.20	Jan. 21, 1970	1915	*1,910	9.48
May 21, 1967	1800	470	7.76	Jan. 26, 1969	0500	440	7.70	Jan. 27, 1970	0415	298	7.30

a Maximum gage height for year, 8.41 ft Mar. 10, 1966, backwater from snow and ice.
b Maximum daily.

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Sept. 5-12, 1966	.40	1969	Sept. 30, 1969	.72
1967	Oct. 1, 2, 4-11, 1966	.60	1970	Sept. 29, 30, 1970	.39
1968	Aug. 6-13, 1968	.90			

Period of record: Maximum discharge, 3,650 cfs Dec. 22, 1964 (gage height, 10.6 ft, from floodmarks), from rating curve extended above 400 cfs on basis of computation of flow over diversion dam; minimum daily, 0.20 cfs Sept. 23-25, 1964.

REMARKS.--Records good. No gage-height record Jan. 3 to Feb. 26, Feb. 28 to Apr. 7, 1968. No storage or diversion above station. See schematic diagram of Middle Fork American and Rubicon River basins elsewhere in this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.0	6.4	3.9	4.7	6.5	121	97	14	1.8	1.0	.60
2	1.1	1.0	6.8	3.9	4.7	6.0	119	104	13	1.7	.90	.50
3	1.0	1.0	7.5	3.9	4.7	5.5	113	113	12	1.7	.80	.50
4	1.0	1.0	8.0	3.9	5.0	5.5	104	123	11	1.6	.80	.50
5	1.0	.90	7.3	5.2	6.0	5.5	115	127	10	1.6	.70	.40
6	1.0	.90	6.8	9.0	5.6	6.3	123	115	9.6	1.5	.60	.40
7	1.0	.90	6.6	9.1	5.2	9.3	127	111	9.6	1.4	.60	.40
8	.90	1.4	6.2	9.1	5.0	11	123	113	8.7	1.4	.60	.40
9	.90	1.3	6.0	8.0	4.8	12	108	110	8.4	1.5	.60	.40
10	.90	1.1	5.6	5.2	4.8	30	125	145	7.5	1.6	.50	.40
11	.90	1.1	5.8	6.4	4.8	30	92	113	7.0	1.5	.50	.40
12	.90	1.9	5.8	6.0	5.2	26	82	93	6.3	1.5	.60	.40
13	.90	3.4	5.2	6.0	5.0	47	80	85	5.8	1.5	.60	.50
14	1.8	14	4.9	6.2	5.0	43	80	77	5.1	1.4	.60	.60
15	3.2	10	4.0	6.2	5.2	38	88	70	4.9	1.4	.60	.70
16	1.7	8.3	4.0	6.0	5.4	27	108	64	4.8	1.3	.60	.70
17	1.5	25	4.0	5.8	6.0	23	130	57	4.4	1.2	.60	.70
18	1.4	34	4.0	5.8	6.4	22	115	53	4.1	1.2	.60	.80
19	1.4	14	5.0	5.6	6.0	22	92	54	3.9	1.2	.60	.90
20	1.3	11	5.2	5.6	5.8	21	80	50	3.6	1.1	.50	.90
21	1.2	9.1	5.0	5.4	6.6	20	78	46	3.4	1.1	.50	.80
22	1.2	7.5	4.0	5.2	6.6	22	77	40	3.3	1.0	.50	.80
23	1.1	8.3	3.7	5.2	6.8	26	80	35	3.1	1.0	.50	.70
24	1.1	8.0	3.7	5.0	6.6	31	90	31	3.0	1.0	.50	.70
25	1.0	7.3	4.2	5.0	6.0	37	110	29	2.6	1.0	.50	.70
26	1.0	6.4	3.7	5.0	6.0	47	119	26	2.3	1.0	.50	.70
27	1.0	6.2	3.7	4.8	6.4	57	111	23	2.2	.90	.50	.70
28	1.0	6.4	3.9	4.8	6.6	70	102	21	2.1	.90	.50	.60
29	1.0	6.6	4.0	4.8	---	80	97	19	1.9	.80	.50	.60
30	1.0	6.2	3.9	5.0	---	90	97	18	1.8	.90	.50	.60
31	1.0	---	4.0	4.8	---	102	---	16	---	1.1	.60	---
TOTAL	36.60	205.20	158.9	175.8	156.9	978.6	3086	2178	179.4	39.80	18.50	18.00
MEAN	1.18	6.84	5.13	5.67	5.60	31.6	103	70.3	5.98	1.28	.60	.60
MAX	3.2	34	8.0	9.1	6.8	102	130	145	14	1.8	1.0	.90
MIN	.90	.90	3.7	3.9	4.7	5.5	77	16	1.8	.80	.50	.40
AC-FT	73	407	315	349	311	1940	6120	4320	356	79	37	36

CAL YR 1965 TOTAL 12813.70 MEAN 35.1 MAX 270 MIN .90 AC-FT 25420
WTR YR 1966 TOTAL 7231.70 MEAN 19.8 MAX 145 MIN .40 AC-FT 14340

11427700 DUNCAN CREEK NEAR FRENCH MEADOWS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.60	.70	52	12	85	25	34	17	118	125	5.1	1.4
2	.60	.70	81	11	65	26	31	21	94	112	4.7	1.4
3	.70	.70	90	11	52	26	30	27	93	93	4.5	1.4
4	.60	.70	43	11	46	23	29	27	114	79	4.1	1.5
5	.60	.70	116	11	42	22	27	25	169	66	3.8	1.6
6	.60	2.0	104	17	39	23	26	36	172	56	3.6	1.4
7	.60	2.5	65	10	39	26	25	57	174	48	3.4	1.3
8	.60	2.5	44	9.8	37	26	25	80	182	41	3.3	1.3
9	.60	1.8	36	9.8	36	29	27	86	190	36	3.2	1.3
10	.60	1.6	39	9.8	37	28	26	70	196	31	3.0	1.3
11	.60	2.1	39	10	37	26	24	56	196	28	2.8	1.3
12	.70	2.0	34	10	39	26	23	50	193	25	2.7	1.2
13	.70	1.9	31	11	40	30	25	55	223	23	2.4	1.2
14	.70	1.8	30	12	40	31	25	70	214	20	2.2	1.1
15	.80	5.2	27	12	35	30	24	108	229	18	2.1	1.1
16	.70	34	25	12	32	376	23	164	271	17	2.1	1.1
17	.80	9.8	23	11	31	313	22	214	296	15	2.0	1.2
18	.80	4.5	22	11	32	182	21	220	299	14	2.0	3.4
19	.80	6.1	22	10	30	120	20	241	285	13	1.8	1.6
20	.80	34	22	11	28	93	19	302	274	12	1.8	1.3
21	.80	17	20	23	27	80	18	360	257	11	1.7	1.2
22	.80	9.8	19	20	26	77	18	376	232	10	1.6	1.3
23	.80	7.6	18	17	26	73	17	352	205	9.1	1.7	1.3
24	.80	6.6	17	18	26	64	17	336	199	8.5	1.8	1.3
25	.80	6.3	16	16	23	59	17	302	205	7.9	2.0	1.5
26	.80	5.7	14	20	22	52	16	282	190	7.3	2.0	1.2
27	.80	5.7	14	50	23	46	16	264	172	6.8	1.8	1.1
28	.80	85	14	49	24	44	16	244	159	6.5	1.6	1.1
29	.80	155	13	186	---	40	15	226	150	6.2	1.6	1.1
30	.70	40	12	166	---	37	15	193	142	6.0	1.5	1.1
31	.70	---	12	127	---	34	---	157	---	5.5	1.4	---
TOTAL	22.10	454.00	1114	914.4	1019	2087	671	5018	5893	956.8	79.3	40.6
MEAN	.71	15.1	35.9	29.5	36.4	67.3	22.4	162	196	30.9	2.56	1.35
MAX	.80	155	116	186	85	376	34	376	299	125	5.1	3.4
MIN	.60	.70	12	9.8	22	22	15	17	93	5.5	1.4	1.1
AC-FT	44	901	2210	1810	2020	4140	1330	9950	11690	1900	157	81

CAL YR 1966 TOTAL 8421.10 MEAN 23.1 MAX 155 MIN .40 AC-FT 16700
WTR YR 1967 TOTAL 18269.20 MEAN 50.1 MAX 376 MIN .60 AC-FT 36240

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.3	3.8	3.9	12	73	60	118	31	3.3	1.1	1.2
2	8.6	1.3	2.4	3.6	15	70	49	116	30	3.2	1.0	1.2
3	8.1	1.3	2.4	3.4	17	65	39	122	27	3.2	.96	1.2
4	3.4	1.3	3.6	3.3	18	61	44	122	25	2.8	.96	1.2
5	3.4	1.3	6.0	3.2	17	59	47	110	24	2.6	.93	1.1
6	3.3	1.4	2.7	3.1	18	56	39	96	23	2.3	.90	1.1
7	2.3	1.4	3.0	3.1	19	55	45	86	24	2.2	.90	1.1
8	2.1	1.3	2.7	3.0	20	52	62	83	23	2.1	.90	1.1
9	1.9	1.3	2.6	3.0	23	50	70	85	19	2.0	.90	1.0
10	1.8	1.4	3.2	3.1	23	47	85	82	17	1.9	.90	1.0
11	1.8	1.3	3.3	3.4	22	44	91	77	16	1.8	.90	1.0
12	1.6	1.3	3.3	3.6	22	40	91	70	14	1.8	.90	1.0
13	1.6	1.4	2.7	6.0	21	37	89	65	13	1.7	.90	1.0
14	1.6	4.4	2.6	50	21	34	94	60	12	1.7	.93	1.0
15	1.5	2.0	2.4	56	23	31	93	59	11	1.6	.96	1.0
16	1.5	1.6	2.3	45	28	29	82	56	10	1.6	.96	1.0
17	1.5	1.4	2.2	29	80	28	70	56	9.7	1.6	1.0	.99
18	1.5	1.8	2.3	19	170	26	65	61	8.8	1.4	1.1	.99
19	1.4	6.6	2.3	16	250	26	64	68	8.2	1.4	20	1.0
20	1.4	4.7	2.2	15	300	25	61	73	7.3	1.3	5.8	1.3
21	1.4	2.7	2.1	14	150	26	60	66	6.8	1.3	2.4	1.2
22	1.4	2.0	2.1	14	190	28	59	56	6.2	1.2	2.0	1.1
23	1.5	1.7	2.6	14	155	30	59	49	5.8	1.2	1.8	1.0
24	1.4	1.6	3.2	15	140	33	61	43	5.5	1.2	1.6	1.0
25	1.4	1.6	5.5	13	115	36	66	49	4.7	1.2	1.4	.99
26	1.4	1.4	8.5	11	95	38	75	47	4.5	1.1	1.4	.99
27	1.4	1.4	9.7	10	88	47	82	47	4.1	1.1	1.4	.96
28	1.4	1.7	7.9	9.4	80	66	88	46	3.9	1.1	1.3	.96
29	1.5	1.6	6.0	9.1	78	72	101	43	3.8	1.1	1.3	.93
30	1.4	4.5	4.9	9.0	---	72	110	40	3.6	1.0	1.2	.96
31	1.4	---	4.1	9.2	---	70	---	34	---	1.1	1.2	---
TOTAL	67.2	60.0	114.6	403.4	2210	1426	2101	2185	401.9	54.1	59.90	31.57
MEAN	2.17	2.00	3.70	13.0	76.2	46.0	70.0	70.5	13.4	1.75	1.93	1.05
MAX	8.6	6.6	9.7	56	300	73	110	122	31	3.3	20	1.3
MIN	1.3	1.3	2.1	3.0	12	25	39	34	3.6	1.0	.90	.93
AC-FT	133	119	227	800	4380	2830	4170	4330	797	107	119	63

CAL YR 1967 TOTAL 16920.90 MEAN 46.4 MAX 376 MIN 1.1 AC-FT 33560
WTR YR 1968 TOTAL 9114.67 MEAN 24.9 MAX 300 MIN .90 AC-FT 18080

11427700 DUNCAN CREEK NEAR FRENCH MEADOWS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.96	1.8	8.5	6.4	54	17	94	140	241	24	2.6	.99
2	.96	30	7.8	6.4	46	17	89	131	232	22	2.5	.99
3	.96	63	7.5	6.6	42	17	75	116	235	21	2.3	.99
4	.96	18	7.8	8.8	40	17	70	105	226	19	2.3	.96
5	.99	11	7.8	9.6	36	16	73	133	211	18	2.2	.96
6	.99	8.2	7.5	10	32	16	61	174	187	17	2.1	.96
7	.99	6.6	7.5	12	30	16	55	217	164	17	1.9	.99
8	.99	5.6	7.5	11	27	16	52	264	147	16	1.9	1.0
9	.99	5.6	7.2	10	27	16	52	316	127	14	1.8	1.0
10	.99	4.8	15	9.6	25	16	54	348	112	12	1.8	.99
11	.99	5.8	17	9.6	25	14	69	356	107	11	1.7	.96
12	6.2	25	13	9.2	25	14	83	340	103	9.6	1.6	.93
13	10	12	12	107	23	14	89	313	107	9.2	1.6	.90
14	7.9	8.8	9.0	53	23	15	83	274	107	8.2	1.5	.90
15	3.2	9.2	10	20	23	16	73	229	114	7.5	1.5	.90
16	2.6	9.6	8.0	17	23	18	73	238	110	7.2	1.4	.90
17	2.1	10	7.2	16	22	18	83	278	94	6.4	1.4	.90
18	1.8	31	7.2	18	22	18	103	285	91	5.8	1.3	.90
19	1.7	22	7.2	371	21	18	107	260	82	5.4	1.3	.93
20	1.5	16	7.2	752	20	20	120	232	72	4.8	1.2	.96
21	1.5	14	7.5	544	19	18	167	220	62	4.4	1.2	.96
22	1.4	13	7.5	212	19	19	196	250	57	4.2	1.1	.96
23	1.4	12	8.5	120	19	23	196	274	53	4.6	1.1	.93
24	1.4	11	9.2	96	19	25	140	274	46	4.2	1.0	.90
25	1.4	11	9.2	161	18	28	108	260	41	4.0	1.0	.87
26	1.4	9.2	10	330	18	33	93	232	38	3.6	1.0	.84
27	1.4	9.2	8.5	154	18	40	89	232	33	3.6	1.0	.81
28	1.3	8.5	7.8	110	17	49	101	220	30	3.4	1.0	.78
29	1.8	8.2	7.2	83	---	60	122	232	27	3.4	1.0	.75
30	3.6	8.2	6.9	69	---	79	133	247	25	3.3	1.0	.72
31	2.1	---	6.9	60	---	89	---	264	---	2.9	1.0	---
TOTAL	66.47	408.3	271.1	3402.2	733	792	2903	7454	3281	296.7	47.3	27.53
MEAN	2.14	13.6	8.75	110	26.2	25.5	96.8	240	109	9.57	1.53	.92
MAX	10	63	17	752	54	89	196	356	241	24	2.6	1.0
MIN	.96	1.8	6.9	6.4	17	14	52	105	25	2.9	1.0	.72
AC-FT	132	810	538	6750	1450	1570	5760	14790	6510	589	94	55

CAL YR 1968 TOTAL 9618.97 MEAN 26.3 MAX 300 MIN .90 AC-FT 19080
WTR YR 1969 TOTAL 19682.60 MEAN 53.9 MAX 752 MIN .72 AC-FT 39040

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.60	1.6	2.5	32	60	28	37	41	52	7.0	1.4	.56
2	.60	1.5	2.4	27	54	28	41	51	51	6.4	1.3	.56
3	.60	1.5	2.4	25	49	25	40	65	44	6.1	1.3	.56
4	.60	1.5	2.5	24	45	25	42	78	40	5.5	1.1	.63
5	.66	3.1	2.5	23	42	25	45	95	35	4.9	1.1	.95
6	.66	4.2	2.1	22	39	26	49	95	30	4.7	1.1	.78
7	.66	3.5	2.4	18	38	26	49	85	27	4.4	1.0	.70
8	1.0	3.7	2.4	22	37	26	48	84	33	4.2	.95	.63
9	1.2	4.4	2.4	73	36	24	52	95	51	3.9	.95	.63
10	.92	4.9	6.6	64	35	24	53	90	34	3.7	.95	.56
11	.85	6.0	14	46	36	23	54	74	28	3.5	.86	.50
12	.85	6.6	11	62	44	24	53	68	24	3.5	.86	.44
13	.92	6.0	13	78	41	28	48	72	23	3.3	.78	.44
14	1.3	5.5	7.5	169	39	38	43	81	22	3.1	.78	.50
15	24	7.2	5.8	133	38	36	41	99	20	2.7	.78	.50
16	41	16	5.2	788	36	36	38	128	19	2.5	.78	.56
17	13	7.5	5.5	273	34	37	36	142	17	2.4	.78	.50
18	7.2	5.5	5.2	169	32	34	35	142	16	2.4	.78	.50
19	5.8	4.9	102	225	29	31	37	128	15	2.2	.78	.50
20	4.9	4.4	301	250	28	32	33	109	14	2.0	.78	.50
21	4.4	4.4	409	1210	28	34	31	101	13	2.0	.70	.56
22	3.9	3.9	115	690	28	37	29	101	11	1.9	.70	.56
23	3.3	3.5	137	349	27	41	28	99	11	1.9	.63	.50
24	3.1	3.3	454	309	27	46	29	96	9.5	1.7	.63	.50
25	2.9	3.3	358	190	26	49	32	93	8.8	1.7	.63	.50
26	2.5	3.1	146	146	27	48	33	91	9.2	1.6	.63	.50
27	2.4	2.9	97	193	28	45	29	82	8.8	1.5	.63	.44
28	2.4	2.5	70	130	30	46	29	70	9.2	1.5	.63	.44
29	2.1	2.7	55	103	---	46	29	64	9.2	1.5	.63	.39
30	1.7	2.4	44	84	---	42	34	59	8.2	1.4	.63	.39
31	1.7	---	38	70	---	39	---	55	---	1.4	.56	---
TOTAL	137.72	131.5	2421.4	5997	1013	1049	1177	2733	692.9	96.5	26.11	16.28
MEAN	4.44	4.38	78.1	193	36.2	33.8	39.2	88.2	23.1	3.11	.84	.54
MAX	41	16	454	1210	60	49	54	142	52	7.0	1.4	.95
MIN	.60	1.5	2.1	18	26	23	28	41	8.2	1.4	.56	.39
AC-FT	273	261	4800	11900	2010	2080	2330	5420	1370	191	52	32

CAL YR 1969 TOTAL 21627.62 MEAN 59.3 MAX 752 MIN .60 AC-FT 42900
WTR YR 1970 TOTAL 15491.41 MEAN 42.4 MAX 1210 MIN .39 AC-FT 30730

11427750 DUNCAN CREEK BELOW DIVERSION DAM, NEAR FRENCH MEADOWS, CALIF.

LOCATION.--Lat 39°07'59", long 120°28'58", in NE¼SE¼ sec.23, T.15 N., R.13 E., Placer County, Tahoe National Forest, on right bank 800 ft downstream from unnamed right bank tributary, 1,000 ft downstream from Duncan Creek diversion dam, and 20 miles northeast of Foresthill.

DRAINAGE AREA.--10.5 sq mi.

PERIOD OF RECORD.--October 1964 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 5,210 ft (from topographic map).

AVERAGE DISCHARGE.--6 years, 18.5 cfs (13,400 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	May 19, 1966	66	a2.44	Oct. 1-19, 1965	0
1967	Mar. 16, 1967	540	4.37	Nov. 5, 1966	.50
1968	Feb. 20, 1968	379	3.88	Sept.29, 30, 1968	.41
1969	Jan. 19, 1969	1,410	6.10	Oct. 3, 4, 9-11, 1968	.41
1970	Jan. 21, 1970	1,680	6.50	Sept.29, 30, 1970	.39

a Maximum gage height, 2.88 ft Jan. 5, 1966, backwater from ice.

Period of record: Maximum discharge, 3,640 cfs Dec. 22, 1964 (gage height, 8.74 ft in gage well; 10.0 ft, from floodmarks), from rating curve extended above 400 cfs on basis of computation of peak flow over diversion dam; no flow at times in 1965-66.

REMARKS.--Records good. Flow is diverted above station through Duncan Creek diversion tunnel to French Meadows Reservoir (see station 11427400). Maximum design flow of tunnel is 400 cfs. See schematic diagram of Middle Fork American and Rubicon River basins elsewhere in this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.10	1.4	3.7	5.3	7.2	18	9.9	6.3	2.0	1.1	.50
2	0	.10	1.4	3.9	5.6	6.9	17	13	6.3	2.0	1.0	.50
3	0	.10	1.8	3.9	5.8	6.6	15	15	6.3	1.8	.90	.50
4	0	.10	1.8	3.7	6.0	6.3	14	21	6.3	1.8	.80	.40
5	0	.10	1.6	4.2	6.9	6.3	16	23	6.0	1.8	.80	.40
6	0	.10	3.0	4.8	6.9	6.6	17	12	6.0	1.8	.70	.40
7	0	.10	6.3	5.0	6.6	8.4	17	11	6.0	1.8	.70	.40
8	0	.10	5.8	5.6	6.3	9.6	14	12	5.8	1.8	.70	.40
9	0	.10	5.3	4.8	6.6	11	13	11	5.8	1.6	.70	.40
10	0	.10	4.8	4.3	6.6	17	20	34	5.8	1.6	.70	.40
11	0	.10	4.6	4.1	6.3	17	13	13	6.0	1.6	.60	.40
12	0	.10	4.3	4.1	6.3	16	12	7.2	6.0	1.6	.60	.40
13	0	.20	3.9	3.9	6.0	20	12	6.9	5.6	1.6	.60	.60
14	.10	1.2	3.2	4.3	6.0	20	13	6.9	5.0	1.6	.60	.60
15	.10	.30	2.9	4.3	6.3	18	14	6.9	4.8	1.6	.60	.70
16	0	.80	2.9	4.6	6.3	16	21	6.0	4.1	1.4	.60	.70
17	0	6.0	3.4	4.6	6.6	14	31	5.8	3.9	1.4	.60	.60
18	0	11	3.5	4.6	6.9	14	22	5.8	3.5	1.4	.60	.70
19	0	5.6	3.4	4.8	6.9	14	11	6.0	3.2	1.3	.60	.90
20	.10	3.5	3.4	4.8	6.6	13	11	7.2	3.2	1.3	.50	.90
21	.20	2.4	3.4	4.8	7.2	13	10	7.2	3.0	1.2	.50	.70
22	.20	2.0	2.9	5.0	7.5	13	9.9	7.2	2.9	1.2	.50	.70
23	.20	2.1	2.3	4.8	7.8	14	10	7.2	2.9	1.1	.50	.70
24	.20	2.1	2.8	5.0	7.5	15	15	7.2	2.8	1.0	.50	.70
25	.20	1.8	3.0	4.8	7.2	17	24	7.2	2.4	1.0	.50	.70
26	.10	1.6	3.0	5.0	7.2	17	30	6.9	2.4	.90	.50	.70
27	.10	1.6	3.0	5.0	7.2	19	24	6.9	2.2	.90	.50	.70
28	.10	1.4	3.4	5.0	7.2	20	14	6.6	2.1	.90	.50	.60
29	.10	1.6	3.7	5.3	---	19	9.6	6.6	2.1	.90	.50	.60
30	.10	1.4	3.9	5.3	---	18	9.9	6.6	2.0	.90	.50	.60
31	.10	---	4.1	5.6	---	18	---	6.6	---	1.2	.50	---
TOTAL	1.90	47.80	104.2	143.6	185.6	430.9	477.4	309.8	130.7	44.00	19.50	17.50
MEAN	.061	1.59	3.36	4.63	6.63	13.9	15.9	9.99	4.36	1.42	.63	.58
MAX	.20	11	6.3	5.6	7.8	20	31	34	6.3	2.0	1.1	.90
MIN	0	.10	1.4	3.7	5.3	6.3	9.6	5.8	2.0	.90	.50	.40
AC-FT	3.8	95	207	285	368	855	947	614	259	87	39	35

CAL YR 1965 TOTAL 2012.90 MEAN 5.51 MAX 64 MIN 0 AC-FT 3990
WTR YR 1966 TOTAL 1912.90 MEAN 5.24 MAX 34 MIN 0 AC-FT 3790

11427750 DUNCAN CREEK BELOW DIVERSION DAM, NEAR FRENCH MEADOWS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.60	.60	7.8	4.1	25	6.9	26	5.3	11	5.8	2.2	1.6
2	.60	.60	12	3.9	11	7.2	22	8.2	11	5.8	2.2	1.4
3	.60	.60	11	3.9	8.4	7.2	19	14	11	5.6	2.2	1.4
4	.60	.60	8.4	3.7	8.1	6.9	18	14	11	5.6	3.0	1.6
5	.60	.50	15	3.9	8.1	6.6	16	9.9	14	5.3	3.7	1.8
6	.60	1.2	15	3.7	8.4	6.6	14	30	13	5.3	3.7	1.6
7	.60	2.2	10	3.5	8.7	6.9	13	60	12	5.3	3.5	1.6
8	.60	2.0	8.7	3.5	9.0	7.2	13	89	12	5.0	3.2	1.4
9	.60	1.2	7.5	3.4	9.3	7.5	16	100	11	4.8	2.9	1.4
10	.60	1.1	7.5	3.4	9.6	7.5	16	79	11	4.8	2.8	1.4
11	.60	1.3	7.5	3.4	9.6	7.2	12	58	10	4.8	2.6	1.4
12	.60	1.3	7.2	3.5	10	6.9	12	50	10	4.6	2.4	1.4
13	.60	1.2	7.2	3.7	10	7.2	14	56	11	4.6	2.3	1.4
14	.70	1.1	7.2	3.9	9.6	6.9	14	78	10	4.1	2.2	1.3
15	.70	3.7	6.9	4.1	8.7	6.3	11	125	12	3.5	2.2	1.2
16	.70	6.0	7.2	4.1	8.1	370	9.3	190	33	3.2	2.1	1.1
17	.70	5.0	7.2	3.9	7.5	307	9.0	238	52	3.2	1.8	1.2
18	.70	4.6	7.2	3.9	7.5	177	9.9	250	63	3.0	1.8	3.0
19	.60	3.4	7.5	3.7	7.5	120	8.1	255	62	3.0	1.8	1.6
20	.60	8.5	7.5	5.0	7.2	95	6.9	301	68	2.9	1.6	1.2
21	.70	5.8	6.9	18	7.2	83	6.0	358	70	2.6	1.6	1.0
22	.70	4.6	6.6	15	7.2	77	5.6	376	41	2.4	1.6	1.0
23	.70	3.5	6.3	6.6	7.2	76	5.3	352	15	2.4	1.6	1.1
24	.70	3.4	5.8	5.6	7.2	62	5.3	325	17	2.3	1.8	1.3
25	.70	3.4	5.6	5.3	6.9	54	5.3	290	20	2.3	2.0	1.4
26	.60	3.4	5.3	6.3	6.6	47	5.3	275	16	2.3	2.0	1.2
27	.60	3.4	5.0	8.7	6.6	41	5.3	260	6.9	2.3	2.0	1.0
28	.60	49	4.6	9.6	6.9	39	5.0	242	6.3	2.3	1.8	1.4
29	.60	92	4.3	52	---	34	5.0	108	6.0	2.3	1.6	1.3
30	.60	7.5	4.1	88	---	31	5.0	13	6.0	2.3	1.6	1.0
31	.60	---	4.1	65	---	28	---	12	---	2.2	1.4	---
TOTAL	19.60	222.70	234.1	356.3	247.1	1746.0	332.3	4621.4	652.2	115.9	69.2	41.7
MEAN	.63	7.42	7.55	11.5	8.83	56.3	11.1	149	21.7	3.74	2.23	1.39
MAX	.70	92	15	88	25	370	26	376	70	5.8	3.7	3.0
MIN	.60	.50	4.1	3.4	6.6	6.3	5.0	5.3	6.0	2.2	1.4	1.0
AC-FT	39	442	464	707	490	3460	659	9170	1290	230	137	83

CAL YR 1966 TOTAL 2235.40 MEAN 6.12 MAX 92 MIN .40 AC-FT 4430
WTR YR 1967 TOTAL 8658.50 MEAN 23.7 MAX 376 MIN .50 AC-FT 17170

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	.94	1.0	1.3	1.8	10	22	1.6	6.9	2.9	1.0	.74
2	1.8	.94	1.0	1.3	2.8	6.9	9.6	1.8	6.9	2.8	.94	.68
3	1.6	.94	1.0	1.3	4.6	5.6	8.7	4.3	6.6	2.6	.80	.68
4	1.4	1.0	1.2	1.2	3.9	5.8	7.5	9.0	6.3	2.4	.74	.68
5	1.4	1.0	1.3	1.2	3.7	4.8	7.2	8.7	6.3	2.3	.74	.68
6	1.4	1.0	1.2	1.2	3.7	4.1	6.3	8.1	6.6	2.1	.68	.63
7	1.4	1.0	1.2	1.2	3.5	3.7	6.0	8.1	6.6	2.0	.63	.63
8	1.4	1.0	1.2	1.2	3.5	3.5	6.0	8.1	6.6	1.8	.68	.58
9	1.4	1.0	1.1	1.2	3.9	3.4	6.0	8.4	6.3	1.8	.68	.58
10	1.3	1.0	1.1	1.3	3.4	3.2	6.0	8.4	6.3	1.8	.68	.58
11	1.2	1.0	1.1	1.2	3.2	3.2	6.0	8.7	6.0	1.8	.63	.53
12	1.1	1.0	1.1	1.2	3.4	3.0	5.3	8.7	6.0	1.6	.63	.53
13	1.0	1.0	1.1	1.3	3.4	3.0	5.0	8.7	6.0	1.6	.63	.53
14	.94	2.6	1.3	1.6	3.0	3.0	4.6	8.7	6.3	1.6	.68	.53
15	.87	3.4	1.2	17	2.8	2.9	4.1	8.7	6.3	1.6	.74	.58
16	.80	2.2	1.1	6.6	3.0	3.2	3.7	8.7	6.0	1.4	.80	.58
17	.80	1.6	1.1	3.2	16	2.9	3.5	8.7	5.3	1.4	.87	.53
18	.74	1.6	1.2	2.4	10	2.8	3.0	8.4	3.2	1.4	1.0	.49
19	.68	3.2	1.1	2.2	49	2.9	2.9	8.4	3.7	1.3	1.6	.53
20	.53	3.2	1.1	2.4	209	2.8	2.4	8.1	3.9	1.2	2.8	.87
21	1.3	2.1	1.1	3.2	166	3.0	2.3	8.1	3.9	1.1	2.6	.74
22	2.5	.53	1.1	3.4	102	3.5	2.2	7.8	3.9	1.1	2.0	.68
23	1.3	.49	1.1	3.5	203	4.1	2.1	7.8	3.7	1.0	1.6	.63
24	1.1	.49	1.1	3.5	107	4.8	2.1	7.8	3.5	1.0	1.6	.68
25	1.0	.49	1.2	3.4	55	6.3	2.0	7.8	3.5	1.0	1.4	.49
26	1.0	.74	1.4	2.9	36	6.3	2.0	7.8	3.5	.94	1.2	.49
27	1.0	1.1	1.6	2.4	28	7.2	1.8	7.8	3.4	.94	1.1	.45
28	1.0	1.0	1.6	2.2	22	9.3	1.8	7.8	3.4	.87	.94	.45
29	1.0	1.0	1.4	2.0	15	31	1.8	7.8	3.4	.87	.94	.41
30	1.0	1.1	1.4	2.8	---	20	1.6	7.2	3.2	.87	.80	.41
31	1.0	---	1.4	2.2	---	26	---	7.2	---	.87	.74	---
TOTAL	36.16	39.66	37.1	83.0	1071.6	202.2	145.5	237.2	153.5	47.96	32.87	17.59
MEAN	1.17	1.32	1.20	2.68	37.0	6.52	4.85	7.65	5.12	1.55	1.06	.59
MAX	2.5	3.4	1.6	17	209	31	22	9.0	6.9	2.9	2.8	.87
MIN	.53	.49	1.0	1.2	1.8	2.8	1.6	1.6	3.2	.87	.63	.41
AC-FT	72	79	74	165	2130	401	289	470	304	95	65	35

CAL YR 1967 TOTAL 8295.02 MEAN 22.7 MAX 376 MIN .49 AC-FT 16450
WTR YR 1968 TOTAL 2104.34 MEAN 5.75 MAX 209 MIN .41 AC-FT 4170

11427750 DUNCAN CREEK BELOW DIVERSION DAM, NEAR FRENCH MEADOWS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.45	1.6	8.4	7.7	49	11	120	29	34	6.9	2.9	.87
2	.45	5.1	8.4	7.7	42	10	114	26	15	6.9	2.8	.87
3	.41	12	8.1	7.7	37	9.6	94	20	12	6.6	2.4	.80
4	.41	6.8	8.1	7.7	34	9.6	90	19	11	6.6	2.2	.80
5	.45	9.0	8.1	8.5	32	9.6	93	41	11	6.3	2.2	.80
6	.45	8.7	8.4	9.0	30	9.6	78	83	8.4	6.3	2.1	.80
7	.45	8.1	8.4	9.0	26	9.0	69	128	7.5	6.6	2.0	.80
8	.49	6.3	8.7	9.0	24	9.0	67	99	7.5	6.9	1.8	1.0
9	.41	6.3	8.7	8.7	24	9.6	67	77	7.2	6.9	1.6	.94
10	.41	5.6	9.0	8.7	24	9.9	69	130	7.2	6.9	1.6	.87
11	.41	4.8	9.0	8.4	24	11	89	175	7.2	6.9	1.6	.80
12	4.2	8.7	8.7	9.6	20	11	107	179	7.2	6.9	1.6	.80
13	6.6	8.4	8.7	10	19	11	112	159	7.2	6.9	1.4	.80
14	6.0	8.4	8.7	11	19	11	106	136	7.2	7.2	1.4	.80
15	3.0	8.4	8.4	9.3	20	12	62	104	9.3	7.2	1.4	.74
16	2.1	8.4	8.1	8.7	18	14	18	108	8.1	6.9	1.3	.74
17	1.6	8.4	7.7	8.4	16	14	20	144	7.8	6.6	1.3	.80
18	1.4	9.3	7.7	9.6	15	16	22	154	7.8	6.3	1.4	.80
19	1.3	9.3	7.7	303	15	16	23	130	7.5	6.0	1.3	.87
20	1.1	9.0	7.7	634	14	18	25	106	7.5	5.3	1.3	.87
21	1.2	8.7	7.7	494	14	16	39	106	7.5	5.0	1.2	.87
22	1.2	8.4	7.7	219	12	17	48	128	7.2	4.6	1.1	.87
23	1.2	8.4	7.7	130	12	23	52	149	7.2	5.0	1.1	.80
24	1.1	8.4	7.7	104	12	25	22	154	7.2	4.6	1.0	.80
25	1.1	8.4	7.7	172	12	28	18	140	7.2	4.1	1.0	.80
26	1.0	8.1	7.7	306	12	36	18	75	7.2	3.9	1.0	.74
27	1.0	8.1	7.7	161	12	48	18	15	7.2	3.7	.94	.80
28	.94	8.1	7.7	114	12	62	20	12	7.2	3.5	.94	.80
29	1.1	8.4	7.7	88	---	76	25	16	6.9	3.5	.94	.80
30	3.5	8.4	7.7	69	---	98	27	25	6.9	3.4	.94	.87
31	2.0	---	7.7	58	---	116	---	47	---	3.0	.87	---
TOTAL	47.43	236.0	251.4	3010.7	600	775.9	1732	2914	269.3	177.4	46.63	24.72
MEAN	1.53	7.87	8.11	97.1	21.4	25.0	57.7	94.0	8.98	5.72	1.50	.82
MAX	6.6	12	9.0	634	49	116	120	179	34	7.2	2.9	1.0
MIN	.41	1.6	7.7	7.7	12	9.0	18	12	6.9	3.0	.87	.74
AC-FT	94	468	499	5970	1190	1540	3440	5780	534	352	92	49

CAL YR 1968 TOTAL 2526.03 MEAN 6.90 MAX 209 MIN .40 AC-FT 5010
WTR YR 1969 TOTAL 10085.48 MEAN 27.6 MAX 634 MIN .41 AC-FT 20000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.96	1.7	3.6	6.6	20	7.0	3.8	14	13	6.3	1.2	.44
2	1.0	1.7	2.6	6.3	15	7.0	3.4	14	13	5.9	1.1	.44
3	1.0	1.6	2.9	6.1	11	6.2	3.6	14	13	5.2	1.0	.44
4	1.0	1.5	2.7	6.1	10	6.2	3.8	15	13	4.8	.96	.48
5	1.1	1.9	2.9	6.1	9.0	6.2	3.8	15	12	4.5	.96	.72
6	1.1	2.3	2.7	5.9	8.4	6.4	3.8	15	12	4.1	.89	.57
7	1.1	2.3	2.7	5.9	8.1	6.5	3.8	14	12	3.9	.89	.52
8	1.3	2.5	2.9	6.6	8.4	6.5	3.8	14	12	3.6	.83	.48
9	1.6	2.5	3.1	9.0	8.1	6.0	3.8	14	13	3.3	.83	.48
10	1.3	2.5	2.7	10	7.6	5.8	3.6	14	13	3.1	.83	.44
11	1.1	2.5	3.3	9.0	7.6	5.8	3.8	14	12	3.0	.77	.40
12	1.1	2.5	5.4	11	8.1	6.0	3.6	14	12	2.9	.72	.40
13	1.2	2.5	9.3	12	7.8	6.6	3.6	14	12	2.7	.66	.40
14	1.4	2.5	8.4	31	7.6	7.6	3.4	14	12	2.5	.66	.44
15	4.1	2.5	7.6	18	7.3	7.6	3.8	14	12	2.3	.66	.48
16	7.1	2.6	6.6	679	7.3	7.6	3.6	14	11	2.2	.61	.48
17	6.1	2.3	6.3	337	7.1	7.8	3.6	14	11	2.1	.66	.44
18	4.5	2.3	6.6	190	6.8	7.3	3.6	14	11	2.0	.66	.44
19	3.3	2.2	15	177	6.6	6.8	3.9	14	11	1.9	.66	.44
20	2.7	3.1	190	212	6.6	6.6	11	14	11	1.8	.61	.48
21	2.3	4.6	340	989	6.3	6.6	13	14	11	2.3	.57	.52
22	2.0	4.1	72	716	6.1	6.6	13	14	9.9	1.2	.57	.52
23	1.8	3.8	15	392	6.1	6.6	13	13	9.0	1.6	.52	.48
24	1.6	3.6	358	348	6.2	6.6	13	14	8.4	1.6	.52	.48
25	1.5	3.3	283	201	6.4	6.6	13	14	7.8	1.5	.52	.48
26	1.4	3.3	83	147	6.6	5.9	13	14	7.8	1.3	.52	.44
27	1.3	3.0	22	210	6.8	5.4	13	13	7.6	1.3	.52	.44
28	1.5	2.9	9.0	141	7.2	5.0	13	13	8.1	1.3	.52	.44
29	2.2	2.7	7.8	93	---	4.6	13	13	7.8	1.3	.48	.44
30	2.0	2.6	7.3	41	---	4.5	13	13	7.1	1.3	.44	.44
31	1.8	---	6.8	29	---	4.3	---	13	---	1.2	.44	---
TOTAL	63.46	79.4	1491.2	5051.6	230.1	196.2	211.1	431	325.5	84.0	21.78	14.09
MEAN	2.05	2.65	48.1	163	8.22	6.33	7.04	13.9	10.9	2.71	.70	.47
MAX	7.1	4.6	358	989	20	7.8	13	15	13	6.3	1.2	.72
MIN	.96	1.5	2.6	5.9	6.1	4.3	3.4	13	7.1	1.2	.44	.40
AC-FT	126	157	2960	10020	456	389	419	855	646	167	43	28

CAL YR 1969 TOTAL 11184.66 MEAN 30.6 MAX 634 MIN .70 AC-FT 22180
WTR YR 1970 TOTAL 8199.43 MEAN 22.5 MAX 989 MIN .40 AC-FT 16260

11427760 MIDDLE FORK AMERICAN RIVER ABOVE MIDDLE FORK POWERHOUSE, NEAR FORESTHILL, CALIF.

LOCATION.--Lat 39°01'31", long 120°35'40", in NW¼NW¼ sec.36, T.14 N., R.12 E., Placer County, Tahoe National Forest, on right bank 300 ft upstream from Middle Fork powerhouse, 3.7 miles upstream from Big Mosquito Creek, and 11 miles east of Foresthill.

DRAINAGE AREA.--87.8 sq mi.

PERIOD OF RECORD.--August 1965 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 2,540 ft (from topographic map).

AVERAGE DISCHARGE.--5 years, 108 cfs (78,250 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Oct. 24, 1965	a399	-	Aug. 31, 1966	12
1967	Mar. 16, 1967	1,460	5.46	Oct. 9, 1966	13
1968	Feb. 20, 1968	1,390	5.41	Sept.27-29, 1968	14
1969	Jan. 20, 1969	2,540	7.34	Oct. 1-8, 10, 11, 1968	14
1970	Jan. 21, 1970	3,900	8.00	Oct. 3, 1969	15

a Maximum daily.

Period of record: Maximum discharge, 3,900 cfs Jan. 21, 1970 (gage height, 8.00 ft); minimum daily, 12 cfs Aug. 31, 1966.

REMARKS.--Records good. No gage-height record Oct. 22-26, 1965. Flow regulated by French Meadows Reservoir (see station 11427400). See schematic diagram of Middle Fork American and Rubicon River basins elsewhere in this report.

COOPERATION.--Records for the water year 1970 collected by Placer County Water Agency, under general supervision of the Geological Survey, in connection with a Federal Power Commission project.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	232	18	54	29	34	42	232	72	228	18	15	13
2	230	18	51	28	32	42	225	70	200	18	15	13
3	230	18	49	28	32	39	208	73	42	18	14	13
4	247	18	49	32	34	38	195	76	35	18	14	13
5	259	18	48	61	44	39	195	80	35	18	14	13
6	259	18	46	68	60	40	192	68	35	18	14	13
7	259	18	48	57	47	49	190	62	56	17	14	13
8	259	19	44	54	43	56	179	62	220	17	14	13
9	259	18	42	50	41	67	165	62	230	18	14	13
10	259	18	40	45	40	133	225	94	232	18	14	13
11	259	18	36	42	37	119	210	72	218	17	14	13
12	271	19	37	40	37	108	200	57	198	17	13	13
13	316	20	39	39	36	147	179	55	118	17	13	13
14	319	36	28	39	35	153	169	52	44	17	13	13
15	313	27	21	40	34	143	167	50	205	17	13	13
16	310	27	23	41	34	125	169	52	208	17	13	13
17	310	44	25	40	34	106	179	99	205	17	13	13
18	319	175	26	37	34	96	169	220	205	17	13	14
19	353	151	25	36	36	102	133	251	205	17	13	14
20	370	120	25	35	36	95	119	127	137	16	13	14
21	370	101	25	34	35	91	112	94	23	16	13	14
22	381	86	25	34	38	91	104	69	22	16	13	14
23	395	95	24	33	48	96	100	50	22	16	13	14
24	399	112	28	32	53	110	100	45	22	16	13	14
25	395	106	31	32	46	122	107	47	22	16	13	14
26	395	88	27	31	44	141	116	41	21	15	13	14
27	323	80	26	31	43	167	108	67	21	15	13	14
28	21	71	32	30	42	188	92	264	20	15	13	14
29	18	63	37	32	---	202	81	336	20	15	13	14
30	18	58	35	37	---	212	75	332	19	15	13	14
31	18	---	34	34	---	222	---	286	---	16	12	---
TOTAL	8366	1678	1080	1201	1109	3381	4695	3385	3268	518	415	403
MEAN	270	55.9	34.8	38.7	39.6	109	157	109	109	16.7	13.4	13.4
MAX	399	175	54	68	60	222	232	336	232	18	15	14
MIN	18	18	21	28	32	38	75	41	19	15	12	13
AC-FT	16590	3330	2140	2380	2200	6710	9310	6710	6480	1030	823	799

WTR YR 1966 TOTAL 29499 MEAN 80.8 MAX 399 MIN 12 AC-FT 58510

11427760 MIDDLE FORK AMERICAN RIVER ABOVE MIDDLE FORK POWERHOUSE, NEAR FORESTHILL, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	14	70	45	379	98	189	102	202	52	27	19
2	14	14	225	44	289	95	174	108	180	83	27	19
3	14	14	206	44	237	100	165	124	166	253	27	20
4	14	14	96	43	209	96	164	144	166	248	26	20
5	14	14	245	44	195	92	158	142	222	242	27	21
6	14	18	419	42	183	90	165	166	205	173	27	20
7	14	18	235	42	180	90	174	242	186	44	27	20
8	14	16	151	42	174	90	164	348	174	42	26	19
9	13	16	112	41	171	91	164	428	166	41	26	19
10	14	15	116	41	169	96	165	460	156	40	26	19
11	14	15	107	41	171	108	155	370	147	39	25	19
12	14	16	92	42	172	108	148	317	146	38	24	19
13	14	16	86	40	174	102	153	304	156	37	24	19
14	14	16	83	40	176	100	160	334	135	36	24	19
15	14	17	78	40	158	104	155	444	126	35	23	19
16	14	44	74	40	147	803	142	600	133	34	22	19
17	14	24	71	40	139	822	145	738	147	33	22	20
18	14	20	69	40	136	588	152	750	156	32	20	26
19	14	21	68	40	131	460	144	750	146	31	20	22
20	14	65	67	54	122	382	134	857	146	30	20	20
21	14	50	66	279	116	352	132	948	392	30	20	20
22	14	42	61	200	113	352	126	962	1090	30	20	20
23	14	25	59	131	111	385	126	892	843	30	20	20
24	14	22	56	130	108	355	128	815	585	29	20	20
25	14	21	56	111	108	322	124	726	585	29	23	20
26	15	20	55	126	101	286	120	648	585	28	21	20
27	15	20	51	183	98	252	126	580	969	28	21	19
28	15	66	50	227	97	244	119	535	748	28	20	19
29	15	208	49	666	---	225	112	396	216	27	19	19
30	15	58	48	645	---	212	111	240	56	27	19	19
31	15	---	46	564	---	203	---	225	---	27	19	---
TOTAL	439	939	3267	4107	4564	7703	4394	14695	9330	1876	712	594
MEAN	14.2	31.3	105	132	163	248	146	474	311	60.5	23.0	19.8
MAX	15	208	419	666	379	822	189	962	1090	253	27	26
MIN	13	14	46	40	97	90	111	102	56	27	19	19
AC-FT	871	1860	6480	8150	9050	15280	8720	29150	18510	3720	1410	1180

CAL YR 1966 TOTAL 23020 MEAN 63.1 MAX 419 MIN 12 AC-FT 45660
WTR YR 1967 TOTAL 52620 MEAN 144 MAX 1090 MIN 13 AC-FT 104400

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	17	25	28	39	178	176	57	36	29	22	17
2	27	17	23	28	49	162	148	55	35	28	22	17
3	38	17	25	26	76	148	133	55	35	28	22	17
4	22	17	32	26	66	138	126	58	35	27	22	16
5	22	17	83	25	65	134	125	57	35	27	21	16
6	21	17	36	26	68	123	117	55	38	26	21	16
7	20	18	43	25	69	120	111	54	39	26	21	16
8	20	17	32	26	69	128	107	52	42	26	21	16
9	19	18	29	26	85	117	105	51	36	26	21	16
10	19	18	28	40	86	107	109	50	36	25	21	16
11	19	18	27	30	77	100	109	50	35	25	21	16
12	19	18	26	28	74	94	104	50	34	25	21	16
13	18	19	20	28	74	104	98	55	33	25	21	15
14	18	26	24	30	72	104	94	56	34	25	21	15
15	18	22	28	168	68	97	92	54	34	25	21	15
16	18	21	25	107	69	108	89	51	33	25	21	15
17	18	21	24	63	202	107	84	48	33	25	22	15
18	18	21	26	50	195	97	79	46	32	25	21	15
19	18	40	26	45	224	91	76	46	31	24	40	15
20	18	28	25	43	832	88	74	45	31	24	28	16
21	18	24	25	43	730	87	71	44	31	23	22	16
22	18	23	25	46	504	89	68	44	30	22	21	16
23	20	21	26	48	694	91	66	43	30	22	20	15
24	18	21	28	46	483	94	65	42	29	22	19	15
25	18	20	30	46	345	111	64	43	30	22	19	15
26	18	20	32	47	285	118	63	41	30	22	18	15
27	18	21	35	46	252	115	61	40	30	22	18	14
28	18	23	33	41	222	125	60	40	29	22	18	14
29	18	26	32	41	199	143	59	38	29	22	18	14
30	18	28	30	42	---	164	58	38	29	22	18	15
31	18	---	29	44	---	172	---	38	---	22	17	---
TOTAL	610	634	932	1358	6273	3654	2791	1496	994	759	659	465
MEAN	19.7	21.1	30.1	43.8	216	118	93.0	48.3	33.1	24.5	21.3	15.5
MAX	38	40	83	168	832	178	176	58	42	29	40	17
MIN	18	17	20	25	39	87	58	38	29	22	17	14
AC-FT	1210	1260	1850	2690	12440	7250	5540	2970	1970	1510	1310	922

CAL YR 1967 TOTAL 50151 MEAN 137 MAX 1090 MIN 17 AC-FT 99470
WTR YR 1968 TOTAL 20625 MEAN 56.4 MAX 832 MIN 14 AC-FT 40910

11427760 MIDDLE FORK AMERICAN RIVER ABOVE MIDDLE FORK POWERHOUSE, NEAR FORESTHILL, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	17	35	46	297	117	439	333	134	47	25	20
2	14	29	31	46	265	112	415	327	114	46	25	20
3	14	101	32	47	248	109	366	300	94	45	25	20
4	14	51	30	50	228	104	356	282	97	44	23	20
5	14	33	30	54	220	104	435	306	88	44	23	19
6	14	30	30	57	212	104	398	370	87	42	22	20
7	14	28	30	60	184	101	348	435	79	42	22	21
8	14	27	30	60	172	98	321	451	78	42	21	22
9	15	26	30	60	166	98	312	447	77	40	21	21
10	14	25	47	52	162	96	309	504	77	39	21	20
11	14	25	70	59	174	93	348	545	79	39	21	20
12	20	54	47	68	195	89	419	518	77	38	21	19
13	26	35	42	227	174	87	431	471	127	37	22	19
14	28	33	53	288	170	86	404	415	327	36	22	18
15	22	39	70	174	208	89	345	352	559	35	23	18
16	19	34	60	131	195	97	294	330	590	35	23	18
17	18	33	50	108	178	104	306	359	478	34	23	18
18	17	40	45	112	166	112	348	362	247	33	22	18
19	17	42	45	1170	158	117	345	315	291	33	22	19
20	17	35	40	2080	152	125	366	270	285	31	22	18
21	16	33	38	1920	143	126	419	258	278	30	22	18
22	16	31	40	1080	133	126	463	280	270	29	22	18
23	16	30	43	658	133	143	475	294	161	33	21	18
24	16	34	74	518	134	160	370	297	55	30	21	18
25	16	35	98	964	129	176	315	270	53	29	21	18
26	16	32	68	1400	121	203	285	228	54	29	21	17
27	16	30	55	858	115	242	278	136	52	29	21	17
28	16	30	56	615	120	282	294	125	52	30	21	17
29	17	29	53	463	---	327	321	120	50	30	21	17
30	21	31	50	380	---	408	330	128	49	28	21	17
31	18	---	47	321	---	447	---	148	---	26	20	---
TOTAL	523	1052	1469	14126	4952	4682	10855	9976	5059	1105	681	563
MEAN	16.9	35.1	47.4	456	177	151	362	322	169	35.6	22.0	18.8
MAX	28	101	98	2080	297	447	475	545	590	47	25	22
MIN	14	17	30	46	115	86	278	120	49	26	20	17
AC-FT	1040	2090	2910	28020	9820	9290	21530	19790	10030	2190	1350	1120

CAL YR 1968 TOTAL 21493 MEAN 58.7 MAX 832 MIN 14 AC-FT 42630
WTR YR 1969 TOTAL 55043 MEAN 151 MAX 2080 MIN 14 AC-FT 109200

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	21	22	70	277	177	94	77	51	35	24	18
2	17	21	22	72	243	142	91	77	51	34	24	18
3	15	21	21	67	218	132	86	76	51	34	23	18
4	17	21	21	63	203	131	84	74	50	33	23	18
5	17	31	21	59	188	126	81	73	49	33	23	19
6	17	43	22	55	177	125	79	76	48	32	23	19
7	17	30	21	55	165	126	77	73	47	32	22	19
8	18	28	24	57	154	149	74	73	50	31	22	19
9	18	26	24	126	146	142	72	73	61	31	22	18
10	18	25	26	187	137	147	71	74	51	31	22	19
11	17	25	33	112	132	137	69	71	48	31	21	18
12	17	24	29	137	147	134	67	69	47	30	22	18
13	17	24	39	223	154	142	68	68	47	30	21	19
14	18	24	32	927	142	162	71	68	47	30	20	19
15	35	24	30	538	136	167	66	66	46	29	20	18
16	58	28	28	2340	147	165	70	65	45	29	20	19
17	43	25	27	1830	193	165	67	65	44	29	20	19
18	30	24	27	1130	158	156	66	64	43	28	20	19
19	26	23	65	960	146	147	78	64	42	28	20	19
20	25	23	451	1040	137	141	71	64	41	28	20	19
21	24	24	759	2730	132	134	76	62	41	27	20	19
22	23	24	191	1790	128	131	76	61	40	28	20	20
23	23	24	111	1110	124	128	72	59	39	26	19	19
24	23	23	1050	1110	122	126	70	58	38	26	19	19
25	22	23	682	815	119	125	70	58	37	26	19	19
26	22	23	272	662	118	122	79	58	37	26	19	19
27	22	23	134	880	118	116	74	57	38	25	18	19
28	22	22	92	662	124	111	72	56	38	25	18	19
29	22	22	76	529	---	107	73	55	39	25	18	19
30	22	22	71	407	---	104	77	53	37	24	18	19
31	22	---	69	331	---	99	---	52	---	24	18	---
TOTAL	704	741	4492	21074	4385	4216	2241	2039	1343	900	638	563
MEAN	22.7	24.7	145	680	157	136	74.7	65.8	44.8	29.0	20.6	18.8
MAX	58	43	1050	2730	277	177	94	77	61	35	24	20
MIN	15	21	21	55	118	99	66	52	37	24	18	18
AC-FT	1400	1470	8910	41800	8700	8360	4450	4040	2660	1790	1270	1120

CAL YR 1969 TOTAL 57936 MEAN 159 MAX 2080 MIN 15 AC-FT 114900
WTR YR 1970 TOTAL 43336 MEAN 119 MAX 2730 MIN 15 AC-FT 85960

11427770 MIDDLE FORK AMERICAN RIVER BELOW INTERBAY DAM, NEAR FORESTHILL, CALIF.

LOCATION.--Lat 39°01'35", long 120°36'09", in SW¼SE¼ sec.26, T.14 N., R.12 E., Placer County, Tahoe National Forest, on right bank 500 ft downstream from Interbay Dam, 3.3 miles upstream from Big Mosquito Creek, and 10.6 miles east of Foresthill.

DRAINAGE AREA.--89.1 sq mi.

PERIOD OF RECORD.--October 1965 to September 1970.

GAGE.--Water-stage recorder and V-notch sharp-crested weir. Altitude of gage is 2,470 ft (from topographic map).

AVERAGE DISCHARGE.--5 years, 73.9 cfs (53,540 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Oct. 24, 1965	a399	-	Sept.13, 1966	2.5
1967	June 22, 1967	a1,250	-	Oct. 25-30, 1966, Jan. 19, 1967	1.0
1968	Feb. 20, 1968	a520	3.55	Several days	5.4
1969	Jan. 20, 1969	2,180	4.72	Dec. 7, 1968	12
1970	Jan. 21, 1970	3,910	6.95	Mar. 28, 29, Apr. 4, 5, 1970	7.4

a Maximum daily.

Period of record: Maximum discharge, 3,910 cfs Jan. 21, 1970 (gage height, 6.95 ft); minimum daily, 1.0 cfs Oct. 25-30, 1966, Jan. 19, 1967.

REMARKS.--Records poor prior to water year 1968, good thereafter except those above 500 cfs, which are poor. Flow regulated by French Meadows Reservoir (see station 11427400) and after Aug. 22, 1966, by Interbay Reservoir (capacity, 130 acre-ft between normal operating limits of 2,502.0 and 2,526.0 ft). Water is diverted from Hell Hole Reservoir through tunnel to Interbay powerplant and re-diverted to Ralston powerplant. See schematic diagram of Middle Fork American and Rubicon River basins elsewhere in this report.

COOPERATION.--Five discharge measurements for the water year 1969 furnished by Placer County Water Agency in connection with a Federal Power Commission project. Records for the water year 1970 collected by Placer County Water Agency, under general supervision of the Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	232	18	54	29	34	42	232	72	228	18	15	9.8
2	230	18	51	28	32	42	225	70	200	18	15	10
3	230	18	49	28	32	39	208	73	42	18	14	14
4	247	18	49	32	34	38	195	76	35	18	14	14
5	259	18	48	61	44	39	195	80	35	18	14	14
6	259	18	46	68	60	40	192	68	35	18	14	11
7	259	18	48	57	47	49	190	62	56	17	14	11
8	259	19	44	54	43	56	179	62	220	17	14	8.0
9	259	18	42	50	41	67	165	62	230	18	14	7.2
10	259	18	40	45	40	133	225	94	232	18	14	6.8
11	259	18	36	42	37	119	210	72	218	17	14	6.1
12	271	19	37	40	37	108	200	57	198	17	13	5.8
13	316	20	39	39	36	147	179	55	118	17	13	2.5
14	319	36	28	39	35	153	169	52	44	17	13	70
15	313	27	21	40	34	143	167	50	205	17	13	25
16	310	27	23	41	34	125	169	52	208	17	13	14
17	310	44	25	40	34	106	179	99	205	17	14	12
18	319	175	26	37	34	96	169	220	205	17	18	23
19	353	151	25	36	36	102	133	251	205	17	11	17
20	370	120	25	35	36	95	119	127	137	16	20	12
21	370	101	25	34	35	91	112	94	23	16	17	12
22	381	86	25	34	38	91	104	69	22	16	14	8.0
23	395	95	24	33	48	96	100	50	22	16	14	13
24	399	112	28	32	53	110	100	45	22	16	9.8	6.4
25	395	106	31	32	46	122	107	47	22	16	16	8.4
26	395	88	27	31	44	141	116	41	21	15	81	28
27	323	80	26	31	43	167	108	67	21	15	12	45
28	21	71	32	30	42	188	92	264	20	15	14	43
29	18	63	37	32	---	202	81	336	20	15	14	44
30	18	58	35	37	---	212	75	332	19	15	12	38
31	18	---	34	34	---	222	---	286	---	16	11	---
TOTAL	8366	1678	1080	1201	1109	3381	4695	3385	3268	518	498.8	539.0
MEAN	270	55.9	34.8	38.7	39.6	109	157	109	109	16.7	16.1	18.0
MAX	399	175	54	68	60	222	232	336	232	18	81	70
MIN	18	18	21	28	32	38	75	41	19	15	9.8	2.5
AC-FT	16590	3330	2140	2380	2200	6710	9310	6710	6480	1030	989	1070

WTR YR 1966 TOTAL 29718.8 MEAN 81.4 MAX 399 MIN 2.5 AC-FT 58950

NOTE.--STAGE-DISCHARGE RELATION INDEFINITE OR NO GAGE-HEIGHT RECORD OCT. 1 TO AUG. 17.

11427770 MIDDLE FORK AMERICAN RIVER BELOW INTERBAY DAM, NEAR FORESTHILL, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	7.6	8.1	9.0	3.9	130	232	105	218	59	8.1	7.6
2	48	6.9	125	9.0	4.3	130	214	125	192	32	8.1	7.6
3	48	6.9	108	9.0	4.3	130	209	101	95	196	6.2	7.6
4	47	6.9	7.2	9.0	3.9	118	209	151	180	192	5.7	7.7
5	45	7.2	74	9.0	3.9	130	122	121	222	236	8.1	7.7
6	5.9	7.2	25	9.0	3.6	130	180	172	200	118	8.1	7.7
7	5.9	6.9	9.0	9.0	3.9	130	222	245	180	36	5.5	7.7
8	5.9	7.2	9.0	9.0	3.6	130	209	350	180	457	4.0	8.5
9	5.9	7.2	12	9.0	3.6	130	209	424	145	40	4.0	6.5
10	5.9	7.2	8.1	9.5	3.4	130	200	488	172	47	5.5	6.5
11	5.9	7.2	8.1	10	3.4	118	196	368	154	43	8.1	6.5
12	5.9	7.2	55	10	3.4	130	180	317	160	32	8.1	6.9
13	5.9	7.2	6.9	10	3.4	130	188	295	160	8.1	8.1	6.9
14	5.9	7.2	6.9	10	3.4	130	200	322	139	8.1	7.2	6.9
15	7.0	7.6	6.9	9.5	3.4	130	180	435	142	8.1	5.4	6.9
16	10	12	12	140	69	1140	180	605	145	8.1	4.0	6.5
17	10	6.9	7.2	65	160	805	180	772	139	8.1	5.9	6.9
18	5.9	5.8	6.9	16	130	512	180	650	154	8.1	7.5	6.9
19	8.0	7.6	6.9	1.0	130	392	186	750	145	8.1	7.5	6.9
20	5.9	6.9	6.9	23	130	306	69	700	145	8.1	7.5	6.9
21	7.0	8.6	6.9	180	130	275	139	980	368	8.1	6.8	6.9
22	5.9	6.9	6.9	145	118	265	136	980	1250	8.1	7.5	6.5
23	7.0	6.9	22	106	130	285	133	884	838	8.1	7.5	6.1
24	3.5	6.5	74	127	118	265	136	827	512	8.1	7.5	5.8
25	1.0	6.5	72	154	130	184	130	720	520	8.1	7.5	5.8
26	1.0	7.6	67	200	130	242	125	670	520	8.1	7.6	5.8
27	1.0	6.5	56	245	130	218	133	587	860	8.1	7.6	21
28	1.0	7.6	9.5	295	130	209	125	560	632	8.1	7.6	23
29	1.0	6.9	9.0	536	---	245	66	398	587	8.1	7.6	14
30	1.0	7.6	9.0	40	---	234	120	232	43	8.1	7.6	6.5
31	3.2	---	9.0	5.0	---	104	---	222	---	8.1	7.6	---
TOTAL	351.5	218.4	850.4	2418.0	1690.4	7607	4988	14556	9397	1641.9	215.0	244.7
MEAN	11.3	7.28	27.4	78.0	60.4	245	166	470	313	53.0	6.94	8.16
MAX	48	12	125	536	160	1140	232	980	1250	457	8.1	23
MIN	1.0	5.8	6.9	1.0	3.4	104	66	101	43	8.1	4.0	5.8
AC-FT	697	433	1690	4800	3350	15090	9890	28870	18640	3260	426	485
(†)				25840	42460	57860	55460	60390	59520	60020	54600	24380

CAL YR 1966 TOTAL 20015.1 MEAN 54.8 MAX 336 MIN 1.0 AC-FT 39700
WTR YR 1967 TOTAL 44178.3 MEAN 121 MAX 1250 MIN 1.0 AC-FT 87630

† DIVERSION, IN ACRE-FEET, TO RALSTON POWERPLANT, FURNISHED BY PLACER COUNTY WATER AGENCY.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	6.1	6.9	6.1	6.1	6.1	6.9	5.8	14	12	14	14
2	6.9	6.1	6.9	7.8	6.1	6.1	6.9	5.8	14	12	14	14
3	6.9	6.1	6.9	6.1	6.1	5.8	6.5	5.6	14	12	14	14
4	7.2	6.1	6.9	6.1	6.1	6.1	6.5	5.6	14	12	14	14
5	6.9	6.1	6.9	6.1	6.1	6.1	6.9	5.6	14	12	14	15
6	6.9	6.5	6.1	6.1	7.7	6.1	6.5	5.6	14	12	14	15
7	6.9	6.5	6.5	5.8	6.1	6.1	6.1	5.6	14	12	14	14
8	6.5	6.1	6.1	5.8	6.1	6.5	6.1	5.6	14	14	14	15
9	6.9	6.1	6.1	5.8	6.9	6.1	6.1	9.2	14	13	14	15
10	6.5	6.1	6.1	6.1	6.1	6.1	5.8	14	14	14	14	15
11	6.5	6.1	6.1	5.8	5.8	6.1	28	14	14	12	14	15
12	6.5	6.1	6.1	5.8	5.8	6.1	55	14	14	12	14	15
13	6.1	6.1	6.1	5.4	5.8	7.2	48	14	14	12	14	15
14	5.4	8.6	6.1	5.4	5.8	7.2	47	14	14	12	14	15
15	5.8	6.9	6.1	6.4	5.8	5.8	24	14	14	12	14	15
16	6.9	6.5	5.8	6.1	15	13	6.5	14	14	12	14	15
17	6.1	6.5	5.8	6.1	6.1	6.2	6.1	14	14	12	14	15
18	6.1	6.5	6.1	6.5	6.1	6.1	6.1	14	14	12	14	16
19	6.1	6.5	6.1	6.1	6.1	6.1	6.1	14	13	12	14	16
20	6.1	6.5	6.1	5.8	87	26	5.4	14	13	12	14	16
21	6.1	6.5	6.1	5.8	6.5	20	7.3	14	14	12	14	15
22	6.1	6.5	6.1	5.4	6.5	6.1	5.8	14	13	12	14	15
23	6.5	6.5	6.1	5.8	6.5	6.1	5.8	14	13	12	14	15
24	6.5	6.5	6.1	7.3	6.5	5.8	5.8	14	13	12	14	15
25	6.5	6.5	6.1	5.8	6.8	6.1	5.4	14	12	12	14	15
26	6.5	6.1	6.1	7.9	6.5	7.5	5.8	14	12	12	14	15
27	6.5	6.1	6.1	6.7	6.1	6.1	5.4	14	12	12	14	14
28	6.5	6.1	6.1	6.5	6.1	7.2	5.4	14	12	12	14	14
29	6.1	6.1	6.1	6.1	6.1	6.5	5.4	14	12	16	14	14
30	6.1	6.5	6.1	6.1	---	6.1	6.9	14	12	14	14	14
31	6.1	---	6.1	6.1	---	7.4	---	14	---	14	14	---
TOTAL	199.2	191.5	192.9	190.7	270.3	235.8	355.5	362.4	403	385	434	444
MEAN	6.43	6.38	6.22	6.15	9.32	7.61	11.9	11.7	13.4	12.4	14.0	14.8
MAX	7.2	8.6	6.9	7.9	87	26	55	14	14	16	14	16
MIN	5.4	6.1	5.8	5.4	5.8	5.8	5.4	5.6	12	12	14	14
AC-FT	395	380	383	378	536	468	705	719	799	764	861	881
(†)	33870	25690	37250	22200	20650	20310	22660	20590	16760	8550	18280	29160

CAL YR 1967 TOTAL 43341.6 MEAN 119 MAX 1250 MIN 1.0 AC-FT 85970
WTR YR 1968 TOTAL 3664.3 MEAN 10.0 MAX 87 MIN 5.4 AC-FT 7270

† DIVERSION, IN ACRE-FEET, TO RALSTON POWERPLANT, FURNISHED BY PLACER COUNTY WATER AGENCY.

11427770 MIDDLE FORK AMERICAN RIVER BELOW INTERBAY DAM, NEAR FORESTHILL, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	15	14	25	34	180	380	286	109	28	29	24
2	15	15	14	25	34	186	375	270	104	28	29	24
3	15	15	14	25	34	188	325	226	72	28	29	24
4	15	14	14	25	35	188	300	68	65	28	29	24
5	15	14	14	25	36	194	370	25	86	27	28	25
6	15	14	14	25	35	196	330	142	109	27	27	25
7	15	15	12	25	34	279	290	130	81	28	27	25
8	15	15	14	25	35	211	264	134	92	28	24	25
9	14	14	14	25	33	62	256	68	93	28	20	25
10	14	14	14	25	142	62	260	30	93	28	20	25
11	14	14	14	25	178	60	267	30	97	28	21	25
12	15	15	14	25	221	74	302	30	93	28	20	25
13	15	15	14	25	169	62	277	30	166	28	20	19
14	15	15	14	25	174	80	324	155	320	28	20	23
15	15	15	14	26	220	84	254	447	558	28	20	27
16	15	14	14	30	117	88	268	410	610	28	20	28
17	16	15	14	27	124	88	280	447	515	28	20	28
18	16	15	14	25	130	93	325	454	235	28	20	26
19	16	15	14	512	132	82	305	392	290	28	22	24
20	16	15	14	1810	134	90	179	301	280	28	24	24
21	16	15	14	1160	139	92	359	315	285	28	24	23
22	16	15	14	174	142	90	388	315	272	27	24	21
23	15	14	14	32	146	102	447	345	151	32	24	21
24	15	14	14	32	151	95	365	350	58	28	24	21
25	15	15	16	340	154	126	310	315	57	28	24	21
26	15	15	21	1400	156	149	285	268	36	28	24	21
27	15	14	26	420	161	199	119	139	29	27	24	21
28	15	14	25	29	172	244	248	142	28	27	24	21
29	15	14	25	30	---	300	288	115	28	27	24	21
30	16	14	26	30	---	355	273	128	28	28	24	22
31	16	---	25	32	---	380	---	114	---	29	24	---
TOTAL	470	437	498	6459	3272	4679	9013	6621	5040	867	733	708
MEAN	15.2	14.6	16.1	208	117	151	300	214	168	28.0	23.6	23.6
MAX	16	15	26	1810	221	380	447	454	610	32	29	28
MIN	14	14	12	25	33	60	119	25	28	27	20	19
AC-FT	932	867	988	12810	6490	9280	17880	13130	10000	1720	1450	1400
(†)	32930	27730	28030	30420	49830	53810	52290	49900	52670	49670	52300	41470

CAL YR 1968 TOTAL 4485.7 MEAN 12.3 MAX 87 MIN 5.4 AC-FT 8900
WTR YR 1969 TOTAL 38797.0 MEAN 106 MAX 1810 MIN 12 AC-FT 76950

† DIVERSION, IN ACRE-FEET, TO RALSTON POWERPLANT, FURNISHED BY PLACER COUNTY WATER AGENCY.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	18	19	25	25	24	7.8	28	28	20	21	20
2	24	18	19	25	25	24	7.8	28	28	20	21	20
3	24	18	19	25	25	24	7.8	28	28	21	21	19
4	24	18	19	25	24	24	7.4	28	28	21	21	20
5	24	18	19	25	24	24	7.4	28	28	21	21	20
6	21	18	19	25	25	24	7.8	28	29	21	20	20
7	18	18	19	25	25	24	7.8	28	29	21	20	20
8	18	18	21	25	25	24	7.8	28	27	21	20	20
9	18	18	23	25	24	24	7.8	28	28	21	20	20
10	18	18	23	25	24	24	20	28	28	21	20	20
11	18	18	23	24	24	24	44	28	28	21	20	20
12	18	18	23	25	24	24	28	28	28	21	20	19
13	18	18	23	25	24	24	28	28	28	21	20	20
14	18	18	23	294	25	24	28	28	28	21	20	20
15	18	18	23	21	24	24	28	28	28	21	20	20
16	18	18	23	1430	24	119	28	28	28	21	20	20
17	18	18	23	929	25	182	28	28	28	21	20	20
18	17	18	23	111	24	166	28	28	28	21	20	20
19	18	18	23	62	25	109	28	28	28	21	20	20
20	18	18	23	94	25	25	28	28	28	21	20	20
21	18	19	147	2150	25	24	28	28	28	21	20	20
22	18	19	32	1120	25	24	28	28	39	21	20	20
23	18	19	24	815	25	25	28	28	44	21	20	20
24	18	19	287	710	25	17	28	28	43	21	20	20
25	18	19	49	402	74	7.8	28	28	32	21	20	20
26	18	19	24	402	24	7.8	28	28	19	21	20	20
27	18	19	25	540	24	7.8	28	28	20	21	20	20
28	18	19	25	453	24	7.4	28	28	20	21	20	20
29	18	19	25	140	---	7.4	28	28	20	21	20	20
30	18	19	25	25	---	7.8	28	28	20	21	20	20
31	18	---	25	25	---	7.8	---	28	---	21	20	---
TOTAL	590	550	1118	10047	736	1104.8	665.4	868	846	649	625	598
MEAN	19.0	18.3	36.1	324	26.3	35.6	22.2	28.0	28.2	20.9	20.2	19.9
MAX	24	19	287	2150	74	182	44	28	44	21	21	20
MIN	17	18	19	21	24	7.4	7.4	28	19	20	20	19
AC-FT	1170	1090	2220	19930	1460	2190	1320	1720	1680	1290	1240	1190
(†)	37630	53940	34520	48610	47310	33160	10460	6790	29060	21450	50200	52940

CAL YR 1969 TOTAL 39650.0 MEAN 109 MAX 1810 MIN 17 AC-FT 78650
WTR YR 1970 TOTAL 18397.2 MEAN 50.4 MAX 2150 MIN 7.4 AC-FT 36490

† DIVERSION, IN ACRE-FEET, TO RALSTON POWERPLANT, FURNISHED BY PLACER COUNTY WATER AGENCY.

11427940 RUBICON-ROCKBOUND TUNNEL NEAR MEEKS BAY, CALIF.

LOCATION.--Lat 38°59'20", long 120°13'31", in SE¼ sec.8, T.13 N., R.16 E., El Dorado County, Eldorado National Forest, on right bank at tunnel intake, 100 ft upstream from diversion dam on Rubicon River, 2.5 miles upstream from Rubicon Springs, and 6.5 miles southwest of Meeks Bay.

PERIOD OF RECORD.--December 1963 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 6,533.23 ft above mean sea level (levels by Sacramento Municipal Utility District). Auxiliary water-stage recorder since Aug. 26, 1966, 300 ft downstream from tunnel outlet at different datum.

AVERAGE DISCHARGE.--7 years, 108 cfs (78,250 acre-ft per year).

EXTREMES.--Period of record: Maximum daily discharge, 1,120 cfs Dec. 23, 1964; no flow at times in each year.

REMARKS.--Records good except those for period of indefinite stage-discharge relation June 26 to Sept. 27, 1966, which are poor. Tunnel diverts water from Rubicon River to Rockbound Lake. See schematic diagram of Middle Fork American and Rubicon River basins elsewhere in this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	30	22	13	12	258	336	114	6.0	.60	
2	0	0	30	20	12	13	293	374	97	17	.60	
3	0	0	34	18	12	13	266	413	85	20	.60	
4	0	0	42	16	12	12	246	444	87	20	.60	
5	0	0	38	18	14	12	248	501	93	19	.50	
6	0	0	34	29	15	13	304	468	103	18	.50	
7	0	0	32	30	15	15	312	445	108	16	.50	
8	0	0	30	25	14	17	326	463	95	14	.50	
9	0	0	28	21	13	19	296	449	112	12	.50	
10	0	0	27	19	12	51	225	470	135	10	.40	
11	0	0	24	17	12	69	152	433	143	9.7	.40	
12	83	0	24	16	12	53	114	334	126	9.0	.40	
13	58	0	23	16	12	108	99	334	126	8.0	.40	
14	13	40	22	17	12	113	112	371	137	7.3	.30	
15	0	72	20	17	12	83	165	337	128	6.3	.30	
16	0	60	18	16	11	51	239	346	124	5.3	.30	
17	0	118	16	15	12	34	323	352	112	4.5	.30	
18	0	256	15	15	13	30	292	338	97	4.0	.30	
19	0	114	14	15	12	32	176	358	87	3.1	.20	
20	0	66	13	14	11	28	128	400	81	3.0	.20	
21	0	46	13	14	11	25	136	418	72	2.5	.20	
22	18	40	13	13	12	26	163	383	56	2.1	.20	
23	11	40	12	13	13	28	180	309	46	1.9	.20	
24	2.8	38	12	13	13	42	253	267	43	1.3	.10	
25	.70	42	14	12	13	56	360	281	22	.90	.10	
26	.10	44	16	12	13	76	439	298	1.0	.80	.10	
27	0	39	16	12	12	99	397	276	1.5	.70	.10	
28	0	35	15	11	12	128	305	268	2.2	.70	0	
29	0	33	18	12	---	158	308	255	2.9	.70	0	
30	0	32	21	12	---	185	316	200	2.7	.70	0	
31	0	---	22	13	---	216	---	176	---	.60	0	---
TOTAL	186.60	1115	686	513	350	1817	7431	11097	2439.3	225.10	9.40	0
MEAN	6.02	37.2	22.1	16.5	12.5	58.6	248	358	81.3	7.26	.30	0
MAX	83	256	42	30	15	216	439	501	143	20	.60	0
MIN	0	0	12	11	11	12	99	176	1.0	.60	0	0
AC-FT	370	2210	1360	1020	694	3600	14740	22010	4840	446	19	0

CAL YR 1965 TOTAL 43827.70 MEAN 120 MAX 773 MIN 0 AC-FT 86930
WTR YR 1966 TOTAL 25869.40 MEAN 70.9 MAX 501 MIN 0 AC-FT 51310

11427940 RUBICON-ROCKBOUND TUNNEL NEAR MEEKS BAY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	119	20	56	32	38	27	238	723	120	3.0
2	0	0	115	19	42	33	34	34	167	734	106	2.3
3	0	0	121	18	35	36	32	49	175	740	96	1.9
4	0	0	90	18	32	31	30	70	319	720	86	1.6
5	0	0	105	19	32	25	30	58	378	702	72	1.7
6	0	0	166	18	30	24	29	64	373	632	60	1.6
7	0	0	138	17	32	27	30	159	475	558	50	1.2
8	0	0	94	16	32	32	30	257	530	511	25	1.0
9	0	0	68	15	31	38	34	328	570	475	4.4	.80
10	7.8	0	60	15	34	37	36	239	603	418	5.2	.66
11	3.8	0	56	16	34	32	32	141	666	394	6.0	.56
12	1.4	0	50	17	36	30	30	85	580	403	6.0	.56
13	.70	0	44	18	36	32	34	80	515	421	6.0	.46
14	.27	0	42	21	37	37	35	118	585	406	6.5	.46
15	.12	0	39	24	32	34	32	226	710	358	18	.46
16	.07	61	38	25	28	414	30	365	796	330	27	9.4
17	0	64	38	23	27	810	27	486	832	288	28	65
18	0	34	38	20	29	457	28	562	812	275	28	25
19	0	21	38	18	30	249	29	548	772	248	25	15
20	0	179	38	18	26	136	27	612	740	203	22	7.0
21	0	88	36	23	24	93	25	775	768	191	20	4.0
22	0	49	34	24	24	89	24	878	751	183	15	2.1
23	0	32	32	34	25	79	23	860	723	189	12	.56
24	0	21	30	37	25	65	23	853	723	187	18	.04
25	0	17	29	30	24	55	22	805	754	163	28	0
26	0	14	28	43	22	47	22	765	754	141	22	0
27	0	12	26	117	23	43	23	713	740	131	17	0
28	0	349	40	110	27	43	24	625	744	133	11	0
29	0	842	33	159	---	44	23	557	744	141	7.3	0
30	0	299	24	135	---	40	23	493	751	141	5.4	0
31	0	---	21	86	---	38	---	380	---	137	4.0	---
TOTAL	14.16	2082	1830	1173	865	3182	859	12212	18288	11276	956.8	146.36
MEAN	.46	69.4	59.0	37.8	30.9	103	28.6	394	610	364	30.9	4.88
MAX	7.8	842	166	159	56	810	38	878	832	740	120	65
MIN	0	0	21	15	22	24	22	27	167	131	4.0	0
AC-FT	28	4130	3630	2330	1720	6310	1700	24220	36270	22370	1900	290

CAL YR 1966 TOTAL 27807.96 MEAN 76.2 MAX 842 MIN 0 AC-FT 55160
WTR YR 1967 TOTAL 52884.32 MEAN 145 MAX 878 MIN 0 AC-FT 104900

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	3.8	9.4	26	98	197	390	273	12	0	1.1
2	7.2	0	7.0	8.1	26	85	122	380	277	17	0	.80
3	93	0	8.1	6.7	53	86	80	370	218	17	0	.80
4	69	0	9.4	5.6	40	88	79	416	241	15	0	.66
5	50	0	12	5.1	28	91	91	374	220	15	0	.46
6	38	0	14	4.4	22	72	73	258	144	13	0	.28
7	23	0	17	4.0	19	58	74	234	115	11	0	.20
8	15	0	16	3.8	18	53	90	262	107	10	0	.15
9	10	0	14	3.6	17	46	127	293	117	9.0	0	.10
10	6.4	0	12	4.4	17	40	190	322	136	8.0	0	.06
11	4.4	0	12	5.6	16	36	265	309	166	6.2	0	.06
12	2.6	0	11	6.4	15	33	254	232	181	4.6	0	.03
13	1.4	0	9.4	5.6	15	32	212	183	164	3.6	0	.03
14	.41	0	10	9.9	15	34	206	158	147	3.0	0	.01
15	.10	0	12	210	14	32	239	150	162	2.5	0	0
16	.01	0	7.0	184	14	30	192	148	168	1.7	0	0
17	0	0	5.6	89	52	30	126	190	173	1.2	0	110
18	0	0	6.1	51	122	29	88	250	159	1.1	0	26
19	0	.03	7.0	36	150	25	88	355	146	.80	16	4.9
20	0	17	7.6	28	835	24	97	423	122	.56	122	1.0
21	0	23	7.3	27	612	25	93	428	110	.28	47	.06
22	0	14	7.0	26	305	30	81	323	109	.15	40	0
23	0	7.8	6.1	27	432	32	92	180	99	.15	26	0
24	0	4.9	6.4	27	432	38	123	139	87	.10	14	0
25	0	3.2	7.6	27	222	46	155	190	75	.10	7.6	0
26	0	2.0	12	25	150	38	222	270	40	.06	5.0	0
27	0	1.1	17	22	132	36	256	334	3.8	.06	3.4	0
28	0	.92	22	20	124	56	270	392	4.0	.06	2.1	0
29	0	1.0	18	16	102	103	361	409	3.4	.03	1.6	0
30	0	2.0	14	15	---	157	400	333	4.4	.01	1.4	0
31	0	---	11	21	---	182	---	280	---	.01	1.2	---
TOTAL	320.52	76.95	329.4	933.6	4025	1765	4943	8975	3971.6	153.27	287.3	146.70
MEAN	10.3	2.57	10.6	30.1	139	56.9	165	290	132	4.94	9.27	4.89
MAX	93	23	22	210	835	182	400	428	277	17	122	110
MIN	0	0	3.8	3.6	14	24	73	139	3.4	.01	0	0
AC-FT	636	153	653	1850	7980	3500	9800	17800	7880	304	570	291

CAL YR 1967 TOTAL 49685.27 MEAN 136 MAX 878 MIN 0 AC-FT 98550
WTR YR 1968 TOTAL 25927.34 MEAN 70.8 MAX 835 MIN 0 AC-FT 51430

11427940 RUBICON-ROCKBOUND TUNNEL NEAR MEEKS BAY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	12	32	25	38	25	290	373	790	300	53	1.3
2	0	190	31	24	35	25	222	332	730	322	48	1.1
3	0	752	30	24	34	24	140	245	816	320	48	1.0
4	0	262	28	29	32	24	103	189	836	268	45	.86
5	0	105	27	33	30	23	131	245	836	260	43	.78
6	0	62	25	35	29	23	95	460	793	252	26	.78
7	0	46	25	39	30	23	68	583	740	222	3.4	.70
8	0	48	25	38	30	23	59	646	608	242	2.6	.70
9	0	88	24	33	28	23	64	740	424	308	2.5	.70
10	0	99	26	29	28	22	68	776	340	275	2.6	.62
11	0	67	35	26	27	22	102	828	295	268	2.8	.62
12	0	306	36	27	27	21	153	712	355	255	3.0	.62
13	0	149	34	41	26	21	173	678	481	252	3.2	.62
14	4.6	74	31	80	25	21	141	726	650	260	3.4	85
15	17	64	31	57	23	21	102	622	754	245	6.2	48
16	17	55	30	38	27	24	113	611	793	211	11	10
17	15	53	32	30	28	26	131	720	611	175	13	5.9
18	15	225	29	31	27	31	187	824	490	169	14	3.2
19	13	258	28	249	26	32	177	779	505	171	14	1.2
20	9.7	126	27	434	24	32	235	653	505	165	10	.48
21	7.8	85	24	264	24	29	315	628	451	155	8.5	.09
22	6.4	67	23	136	24	26	397	678	433	149	7.3	0
23	5.1	102	25	88	24	29	403	808	469	159	6.6	0
24	4.4	74	36	67	25	32	245	872	433	147	5.9	0
25	3.8	64	39	74	30	34	149	824	394	129	5.0	0
26	3.6	55	38	124	33	41	116	872	295	108	3.8	0
27	3.0	47	36	85	30	56	122	872	275	96	2.6	0
28	2.6	40	35	61	27	81	177	751	252	86	2.3	0
29	3.2	34	33	53	---	124	292	688	240	87	2.1	0
30	12	32	29	48	---	167	355	754	258	81	1.9	0
31	15	---	27	43	---	256	---	808	---	64	1.6	---
TOTAL	158.2	3641	931	2365	791	1361	5325	20297	15852	6201	402.3	164.27
MEAN	5.10	121	30.0	76.3	28.3	43.9	178	655	528	200	13.0	5.48
MAX	17	752	39	434	38	256	403	872	836	322	53	85
MIN	0	12	23	24	23	21	59	189	240	64	1.6	0
AC-FT	314	7220	1850	4690	1570	2700	10560	40260	31440	12300	798	326

CAL YR 1968 TOTAL 29931.10 MEAN 81.8 MAX 835 MIN 0 AC-FT 59370
WTR YR 1969 TOTAL 57488.77 MEAN 158 MAX 872 MIN 0 AC-FT 114000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	5.9	6.2	36	57	39	47	84	436	116	12	2.8
2	0	5.6	5.9	32	51	36	54	147	490	129	10	2.8
3	0	5.3	5.3	29	49	32	74	238	530	149	8.5	2.6
4	0	4.6	4.0	27	49	30	81	315	502	149	7.7	2.5
5	0	6.2	3.0	25	49	28	113	367	436	157	6.6	2.3
6	0	23	2.8	23	45	27	151	367	445	145	5.6	2.1
7	0	28	2.5	22	44	30	157	280	427	111	5.0	2.0
8	0	30	2.3	23	48	34	147	258	448	99	5.0	1.9
9	0	30	2.5	44	49	31	147	292	642	66	5.0	1.7
10	0	29	2.6	72	46	28	181	288	379	5.3	4.8	1.6
11	0	31	3.0	46	47	27	161	171	232	19	4.8	1.5
12	0	35	3.6	35	53	28	147	127	195	49	4.6	1.3
13	0	36	6.6	31	52	40	124	165	167	68	4.6	1.1
14	0	37	10	60	43	75	88	290	171	64	4.6	1.0
15	15	36	9.5	64	42	84	64	397	131	67	4.6	.86
16	321	52	8.5	718	38	64	54	538	141	63	4.6	.62
17	161	41	7.3	830	36	64	46	660	183	52	4.3	.30
18	71	28	6.9	400	36	51	45	667	240	41	4.3	.20
19	36	21	136	227	37	43	56	604	310	41	4.3	.20
20	28	18	733	439	36	38	50	466	385	41	4.3	.20
21	27	17	911	898	34	43	43	424	424	38	4.0	.16
22	31	16	584	969	31	52	40	469	373	35	4.0	.16
23	33	14	226	680	31	72	36	499	343	30	3.8	.16
24	28	12	177	347	32	96	36	499	308	25	3.6	.16
25	22	11	240	191	34	120	56	524	280	22	3.4	.16
26	17	10	153	137	36	108	76	586	321	20	3.4	.16
27	14	9.0	86	143	40	92	60	555	541	17	3.2	.16
28	12	8.1	60	108	40	79	47	436	278	14	3.2	.16
29	9.5	7.3	50	80	---	90	43	394	165	14	3.2	.16
30	7.7	6.9	45	72	---	80	52	409	126	14	3.2	.16
31	6.9	---	41	62	---	60	---	427	---	13	3.0	---
TOTAL	840.1	613.9	3534.5	6870	1185	1721	2476	11943	10049	1873.3	153.2	31.18
MEAN	27.1	20.5	114	222	42.3	55.5	82.5	385	335	60.4	4.94	1.04
MAX	321	52	911	969	57	120	181	667	642	157	12	2.8
MIN	0	4.6	2.3	22	31	27	36	84	126	5.3	3.0	.16
AC-FT	1670	1220	7010	13630	2350	3410	4910	23690	19930	3720	304	62

CAL YR 1969 TOTAL 57747.10 MEAN 158 MAX 911 MIN 0 AC-FT 114500
WTR YR 1970 TOTAL 41290.18 MEAN 113 MAX 969 MIN 0 AC-FT 81900

11428000 RUBICON RIVER AT RUBICON SPRINGS, NEAR MEEKS BAY, CALIF.

LOCATION.--Lat 39°01'10", long 120°14'46", in SW¼NE¼ sec.31, T.14 N., R.16 E., El Dorado County, El Dorado National Forest, on right bank 200 ft downstream from Rubicon Springs, 0.7 mile upstream from Miller Creek, and 7 miles west of Meeks Bay.

DRAINAGE AREA.--31.4 sq mi.

PERIOD OF RECORD.--February 1910 to March 1914 (published as "at Rubicon Springs"), October 1956 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 6,052.97 ft above mean sea level. Feb. 1, 1910, to Mar. 31, 1914, nonrecording gage or water-stage recorder at site 0.4 mile downstream at different datum.

AVERAGE DISCHARGE.--17 years (1910-13, 1956-70), 121 cfs (87,660 acre-ft per year), adjusted for diversion into Rubicon-Rockbound tunnel.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Nov. 18, 1965	141	3.27	Sept.28-30, 1966	.90
1967	June 17, 1967	805	5.37	Oct. 4-14, 1966	.80
1968	Feb. 20, 1968	630	5.00	Nov. 13, 1967	2.4
1969	June 14, 1969	630	5.00	Aug. 5, 1969	.72
1970	Jan. 21, 1970	3,470	8.74	Oct. 21, 1969	2.4

Period of record: Maximum discharge, 11,500 cfs Feb. 1, 1963 (gage height, 14.28 ft), from rating curve extended above 1,200 cfs on basis of slope-conveyance computation of peak flow; no flow at times in some years.

Flood in December 1955 reached a stage of 13.0 ft, from floodmarks, present site and datum (discharge, 9,270 cfs).

REMARKS.--Records good. Low summer flow, beginning in 1950, augmented by release from streamflow maintenance dams on Lake Clyde, Lois, Middle Velma, and Schmidell (total controlled capacity, 555 acre-ft). Flow below 1,200 cfs controlled by Rubicon diversion dam 5.5 miles upstream. Diversion to Rubicon-Rockbound tunnel began Dec. 26, 1963 (see station 11427940). See schematic diagram of Middle Fork American and Rubicon River basins elsewhere in this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	5.3	8.4	6.5	7.0	8.4	76	33	5.1	4.7	4.3	2.2
2	8.1	5.3	8.7	6.2	6.7	8.4	67	34	4.9	4.7	4.1	2.0
3	7.8	5.3	9.6	6.2	6.7	8.1	59	33	4.7	4.7	4.1	2.0
4	7.3	4.9	12	6.5	7.3	7.8	52	32	4.5	4.5	4.1	2.0
5	7.5	3.3	11	6.5	8.7	7.8	61	32	4.5	4.5	4.1	2.2
6	7.8	3.0	9.6	9.3	8.1	8.1	62	28	4.9	4.7	4.1	2.0
7	7.8	3.0	9.3	9.6	7.5	9.6	62	24	5.3	4.5	4.1	2.2
8	8.1	3.2	9.0	8.7	7.3	11	55	23	5.4	4.9	4.1	2.2
9	7.3	3.0	8.7	8.1	7.3	13	51	21	6.2	5.1	4.1	2.0
10	5.5	2.9	8.4	7.8	7.3	37	64	36	5.3	4.7	4.3	2.0
11	5.3	2.9	8.1	7.5	7.5	29	44	23	4.9	4.9	4.3	2.2
12	5.3	3.0	8.1	7.5	7.5	20	40	17	4.5	4.9	4.1	2.2
13	5.1	3.2	7.8	7.5	7.5	56	36	15	4.5	4.5	3.9	2.0
14	5.1	26	7.3	7.8	7.5	41	41	14	4.5	4.5	3.9	2.0
15	5.5	14	6.7	7.5	7.5	32	49	12	4.3	4.5	3.9	2.0
16	4.9	8.4	6.2	7.5	7.5	20	59	12	4.3	4.3	3.7	2.0
17	4.7	24	6.0	7.3	7.5	14	63	11	4.1	4.3	3.7	1.9
18	4.7	62	5.5	7.3	7.8	14	42	10	4.1	4.3	3.7	2.1
19	4.7	21	5.5	7.0	8.1	15	26	10	3.9	4.1	3.3	2.4
20	4.7	15	5.5	7.0	7.8	14	26	9.3	3.7	4.1	2.7	2.3
21	4.7	11	5.5	6.7	7.8	13	30	8.7	3.5	4.3	2.6	2.2
22	5.1	9.6	5.3	7.0	7.8	14	29	7.8	3.5	4.3	2.6	2.0
23	5.8	10	5.3	7.0	8.7	15	35	7.3	3.5	4.3	2.4	2.0
24	5.8	11	5.3	7.0	8.7	23	44	6.7	3.3	4.3	2.4	1.3
25	5.8	11	5.8	6.7	8.4	29	53	6.5	3.3	4.3	2.4	1.0
26	5.5	9.6	5.8	6.7	8.4	37	50	6.2	3.3	4.5	2.3	1.0
27	5.5	9.0	5.5	6.5	8.1	45	35	5.8	3.3	5.5	2.3	1.0
28	5.5	8.7	5.8	6.5	8.4	54	32	5.5	4.5	4.9	2.3	.90
29	5.5	8.7	6.2	6.5	---	58	32	5.3	4.9	3.3	2.3	.90
30	5.3	8.4	6.2	7.0	---	60	33	5.3	4.7	3.7	2.2	.90
31	5.3	---	6.2	6.7	---	66	---	5.3	---	4.3	2.3	---
TOTAL	185.4	315.7	224.3	223.6	216.4	788.2	1408	499.7	131.4	139.1	104.7	55.10
MEAN	5.98	10.5	7.24	7.21	7.73	25.4	46.9	16.1	4.38	4.49	3.38	1.84
MAX	8.4	62	12	9.6	8.7	66	76	36	6.2	5.5	4.3	2.4
MIN	4.7	2.9	5.3	6.2	6.7	7.8	26	5.3	3.3	3.3	2.2	.90
AC-FT	368	626	445	444	429	1560	2790	991	261	276	208	109
MEAN†	12.0	49.7	29.3	23.7	20.2	83.9	295	374	85.7	11.7	3.69	1.84
AC-FT†	738	2960	1800	1460	1120	5160	17530	23000	5100	722	222	109

CAL YR 1965 TOTAL 6317.30 MEAN 17.3 MAX 360 MIN 2.9 AC-FT 12530 MEAN† 138 AC-FT† 99590
WTR YR 1966 TOTAL 4291.60 MEAN 11.8 MAX 76 MIN .90 AC-FT 8510 MEAN† 82.8 AC-FT† 59930

† ADJUSTED FOR DIVERSION TO RUBICON-ROCKBOUND TUNNEL.

11428000 RUBICON RIVER AT RUBICON SPRINGS, NEAR MEEKS BAY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.80	1.0	36	5.8	19	14	13	10	34	98	8.4	7.8
2	.90	1.2	58	5.8	15	15	11	13	27	115	8.1	7.8
3	.90	1.2	52	5.8	13	15	11	18	51	74	8.1	7.8
4	.80	1.2	18	6.0	12	12	11	24	69	31	7.8	8.1
5	.80	1.2	73	6.0	13	11	10	19	87	10	8.2	8.1
6	.80	1.8	62	5.5	13	10	10	32	78	8.7	9.0	7.8
7	.80	1.9	25	5.3	14	11	10	74	78	7.3	9.3	7.8
8	.80	1.7	16	5.3	13	13	11	96	78	6.5	9.3	7.8
9	.80	1.2	14	5.3	14	15	13	79	80	5.8	8.1	7.8
10	.80	1.2	17	5.3	16	15	14	47	89	5.3	6.0	7.8
11	.80	1.2	17	5.8	17	13	12	26	81	4.7	6.5	7.8
12	.80	1.2	14	6.5	18	11	11	21	66	4.3	6.7	7.5
13	.80	1.2	13	7.3	19	11	14	30	72	4.1	7.0	7.5
14	.80	1.2	12	9.0	19	11	14	60	63	9.0	7.0	7.0
15	.90	2.4	11	9.3	14	11	13	108	66	9.3	7.3	6.7
16	1.0	38	11	9.3	12	434	11	126	144	9.0	7.3	6.7
17	1.0	4.9	11	7.8	12	171	11	137	284	8.7	7.5	6.5
18	1.0	2.9	12	7.3	13	68	10	116	250	8.4	7.5	8.4
19	1.0	4.5	11	6.7	13	36	10	120	109	8.4	7.5	6.5
20	1.2	29	12	7.8	11	28	9.6	159	112	8.1	7.5	6.5
21	1.2	9.6	11	21	10	30	9.3	166	198	8.1	7.5	6.5
22	1.2	7.0	9.6	16	10	31	9.0	190	148	7.8	7.3	6.5
23	1.0	5.5	9.0	12	11	30	8.7	182	91	8.1	7.5	6.5
24	1.0	4.7	8.7	11	10	23	8.7	166	68	8.1	10	6.5
25	1.0	4.1	7.8	11	10	19	8.7	154	184	8.1	8.7	6.5
26	1.0	3.9	7.3	26	9.3	17	8.7	128	183	7.8	8.4	6.5
27	1.0	3.9	6.7	51	9.6	15	10	104	142	7.8	8.4	6.5
28	1.0	125	6.5	29	11	19	9.3	94	129	7.8	8.1	6.5
29	1.0	63	6.2	84	---	17	8.7	90	136	8.1	8.1	6.5
30	1.0	18	6.2	54	---	14	8.7	68	152	8.4	8.1	6.5
31	1.0	---	6.0	35	---	14	---	53	---	8.4	8.1	---
TOTAL	28.90	344.8	580.0	482.9	370.9	1154	319.4	2710	3349	524.1	244.3	214.7
MEAN	.93	11.5	18.7	15.6	13.2	37.2	10.6	87.4	112	16.9	7.88	7.16
MAX	1.2	125	73	84	19	434	14	190	284	115	10	8.4
MIN	.80	1.0	6.0	5.3	9.3	10	8.7	10	27	4.1	6.0	6.5
AC-FT	57	684	1150	958	736	2290	634	5380	6640	1040	485	426
MEAN†	1.38	80.8	77.7	53.5	44.3	140	39.2	481	721	381	38.7	12.0
AC-FT†	85	4810	4780	3290	2460	8600	2330	29600	42910	23410	2380	716

CAL YR 1966 TOTAL 4519.90 MEAN 12.4 MAX 125 MIN .80 AC-FT 8970 MEAN† 88.5 AC-FT† 64100
WTR YR 1967 TOTAL 10323.00 MEAN 28.3 MAX 434 MIN .80 AC-FT 20480 MEAN† 173 AC-FT† 125400

† ADJUSTED FOR DIVERSION TO RUBICON-ROCKBOUND TUNNEL.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	6.2	7.8	9.3	11	31	59	35	11	8.7	8.4	6.2
2	19	6.2	7.8	9.0	12	30	32	33	11	9.0	7.5	6.2
3	15	6.5	8.1	8.7	23	30	26	33	10	9.0	7.3	6.2
4	8.1	6.5	8.4	8.7	17	31	30	30	9.6	8.7	7.3	6.0
5	7.8	6.5	9.3	8.7	15	31	32	26	9.6	8.7	7.3	6.0
6	7.3	6.2	9.0	8.4	14	23	26	21	9.3	8.7	7.3	6.5
7	7.0	6.0	9.0	8.4	14	20	29	19	9.6	8.7	7.3	6.7
8	6.7	6.0	8.4	8.4	14	20	34	19	10	9.0	7.0	6.7
9	6.7	5.8	8.4	8.4	14	20	43	19	9.6	8.7	7.0	6.7
10	6.7	5.5	8.7	8.7	14	17	56	19	9.3	8.7	7.0	6.7
11	6.7	4.9	9.3	8.7	13	15	55	19	9.3	8.7	6.7	6.5
12	6.7	3.3	8.4	8.4	13	14	48	20	9.3	9.0	6.7	6.5
13	6.5	2.4	7.8	8.4	14	15	40	22	9.0	10	8.4	6.4
14	6.5	5.4	7.5	10	13	15	44	28	9.0	9.6	9.3	6.2
15	6.2	6.0	7.8	96	12	15	44	26	9.0	9.0	9.0	6.5
16	6.5	5.8	7.8	35	12	15	35	20	9.0	9.0	9.3	6.2
17	6.5	5.8	7.5	18	47	14	24	17	8.7	11	9.6	6.5
18	6.5	6.2	8.1	14	41	14	20	17	8.7	11	11	6.2
19	6.5	20	7.8	13	118	13	23	17	8.7	11	20	6.2
20	6.5	14	7.8	13	287	14	24	17	8.4	10	8.4	6.5
21	6.5	8.4	7.8	14	117	15	23	17	8.4	10	7.0	6.2
22	6.5	7.5	7.8	14	73	17	19	14	8.1	10	6.7	6.0
23	6.5	7.3	8.1	16	136	19	23	14	8.1	10	6.5	6.0
24	6.2	7.0	8.4	16	62	20	26	13	8.1	10	6.2	5.8
25	6.2	6.7	10	15	41	25	30	13	8.1	10	6.2	5.8
26	6.2	6.5	14	14	38	21	35	13	7.8	10	6.2	4.9
27	6.2	6.7	20	12	40	21	34	13	8.1	10	6.2	4.3
28	6.5	7.3	15	12	36	33	35	13	8.1	10	6.2	4.3
29	6.2	7.3	12	12	31	48	40	12	8.7	9.3	6.2	4.3
30	6.5	7.5	10	11	---	55	38	11	8.7	8.1	6.0	4.3
31	6.2	---	10	12	---	51	---	11	---	8.4	6.2	---
TOTAL	225.6	207.4	287.8	459.2	1292	722	1027	601	270.3	292.0	241.4	179.5
MEAN	7.28	6.91	9.28	14.8	44.6	23.3	34.2	19.4	9.01	9.42	7.79	5.98
MAX	19	20	20	96	287	55	59	35	11	11	20	6.7
MIN	6.2	2.4	7.5	8.4	11	13	19	11	7.8	8.1	6.0	4.3
AC-FT	447	411	571	911	2560	1430	2040	1190	536	579	479	356
MEAN†	17.6	9.48	19.8	44.9	183	80.2	199	309	142	14.4	17.1	10.9
AC-FT†	1080	564	1220	2760	10540	4930	11840	18990	8420	883	1050	647

CAL YR 1967 TOTAL 10090.1 MEAN 27.6 MAX 434 MIN 2.4 AC-FT 20010 MEAN† 164 AC-FT† 118600
WTR YR 1968 TOTAL 5805.2 MEAN 15.9 MAX 287 MIN 2.4 AC-FT 11510 MEAN† 86.7 AC-FT† 62920

† ADJUSTED FOR DIVERSION TO RUBICON-ROCKBOUND TUNNEL.

11428000 RUBICON RIVER AT RUBICON SPRINGS, NEAR MEEKS BAY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	1.7	3.9	5.1	12	7.3	78	85	64	3.5	.84	6.2
2	4.1	22	3.9	5.1	12	7.0	47	68	46	3.3	.84	6.7
3	3.9	84	3.9	5.1	11	7.0	36	48	50	2.9	.84	6.7
4	3.9	10	3.9	11	11	7.0	49	46	99	2.7	.84	6.7
5	3.9	6.0	3.7	12	11	7.0	52	104	81	2.6	.72	6.5
6	3.9	4.3	3.5	12	11	7.0	33	122	55	2.6	.78	6.5
7	3.9	3.3	3.5	12	9.3	6.7	25	113	27	2.6	.78	6.5
8	3.7	3.0	3.7	11	9.0	6.7	26	120	23	2.7	.84	6.7
9	3.7	2.9	3.9	9.0	8.7	6.7	31	133	18	3.0	.84	6.5
10	2.3	2.6	10	7.8	9.3	7.0	36	143	15	2.7	.78	6.5
11	1.6	3.1	14	7.5	9.3	6.5	64	138	16	2.4	.78	6.5
12	2.2	43	7.3	8.7	9.0	6.2	84	113	17	1.9	3.5	6.7
13	4.7	8.7	6.0	41	8.7	6.2	78	100	17	1.9	4.5	6.2
14	5.8	5.5	5.8	49	8.4	6.2	60	87	103	1.8	4.5	6.5
15	3.7	5.1	5.5	24	8.4	6.7	37	80	80	1.8	4.7	6.2
16	2.2	6.5	5.8	14	8.4	8.4	48	89	121	1.7	4.5	5.5
17	1.7	7.0	5.3	11	8.1	10	75	110	21	1.6	4.7	5.5
18	1.5	29	5.1	23	8.1	15	90	100	20	1.6	4.7	5.5
19	1.4	13	4.9	350	7.8	15	82	81	17	1.5	5.3	5.5
20	1.3	7.0	4.7	297	7.5	14	93	67	13	1.4	5.8	5.3
21	1.3	5.3	4.5	114	7.5	11	111	70	10	1.2	5.8	5.3
22	1.3	4.5	4.1	40	7.5	11	103	81	8.7	1.2	6.0	5.1
23	1.2	4.7	4.5	26	7.8	15	84	93	8.4	1.2	6.0	4.9
24	1.2	4.7	8.7	21	7.5	16	40	130	7.3	1.2	6.0	4.9
25	1.2	6.0	9.0	63	7.5	17	30	101	6.7	1.2	6.0	4.9
26	1.2	5.5	7.5	128	7.5	25	30	101	5.8	1.1	6.0	4.9
27	1.4	4.9	6.2	38	7.5	36	41	127	5.3	1.0	6.0	4.9
28	1.2	4.5	6.0	23	7.3	48	67	70	4.7	1.0	6.0	4.7
29	1.4	3.7	5.8	18	---	64	93	62	4.3	.96	6.2	4.5
30	3.7	3.5	5.3	15	---	93	92	61	3.9	.90	6.0	3.2
31	2.2	---	5.3	13	---	104	---	61	---	.84	6.2	---
TOTAL	80.8	315.0	175.2	1414.3	248.1	603.6	1815	2904	968.1	58.00	117.28	172.2
MEAN	2.61	10.5	5.65	45.6	8.86	19.5	60.5	93.7	32.3	1.87	3.78	5.74
MAX	5.8	84	14	350	12	104	111	143	121	3.5	6.2	6.7
MIN	1.2	1.7	3.5	5.1	7.3	6.2	25	46	3.9	.84	.72	3.2
AC-FT	160	625	348	2810	492	1200	3600	5760	1920	115	233	342
MEAN†	7.71	132	35.8	122	37.1	63.4	238	748	561	202	16.8	11.2
AC-FT†	474	7840	2200	7500	2060	3900	14160	46020	33360	12420	1030	668

CAL YR 1968 TOTAL 5655.40 MEAN 15.5 MAX 287 MIN 1.2 AC-FT 11220 MEAN† 97.2 AC-FT† 70570
WTR YR 1969 TOTAL 8871.58 MEAN 24.3 MAX 350 MIN .72 AC-FT 17600 MEAN† 182 AC-FT† 131600

† ADJUSTED FOR DIVERSION TO RUBICON-ROCKBOUND TUNNEL.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	3.3	2.9	10	15	17	14	30	11	7.3	6.0	4.9
2	2.7	3.3	2.7	9.0	15	16	19	37	11	6.7	5.8	4.9
3	2.6	3.3	2.7	8.7	14	14	19	46	11	6.2	5.8	4.7
4	2.6	3.3	4.7	8.1	15	13	21	46	11	6.0	5.8	4.7
5	2.6	5.1	5.1	7.8	15	13	28	45	10	6.0	5.8	5.1
6	2.6	13	5.1	7.5	16	13	30	37	9.3	5.8	5.8	4.9
7	2.6	7.5	5.1	7.8	16	15	30	30	8.7	5.8	5.5	4.9
8	2.6	6.5	5.3	8.4	20	17	29	28	12	5.8	5.5	4.9
9	2.6	5.8	5.5	43	20	14	33	32	19	5.5	5.5	4.9
10	2.6	5.5	5.5	40	19	13	33	32	13	5.8	5.3	4.7
11	2.6	5.8	5.5	17	21	12	28	22	10	6.0	5.3	4.7
12	2.6	5.3	6.0	17	24	13	24	20	12	6.2	5.1	4.7
13	2.7	5.1	9.3	16	20	20	23	26	12	6.2	5.1	4.9
14	2.9	4.9	7.5	78	17	39	17	30	12	6.2	5.1	4.9
15	6.3	4.7	6.7	32	16	36	16	36	11	6.0	5.1	4.9
16	24	11	6.2	867	14	26	15	39	9.6	6.0	5.1	4.9
17	9.6	6.0	6.0	209	14	27	14	42	9.3	6.0	5.1	4.9
18	4.9	4.7	6.2	48	14	19	16	37	8.7	6.0	5.1	4.9
19	3.2	4.3	82	56	12	15	20	30	8.1	6.0	5.1	5.1
20	2.6	4.1	769	111	12	15	16	25	10	6.0	5.1	4.7
21	2.4	3.9	835	1590	12	17	14	22	11	5.5	5.3	4.9
22	2.7	3.7	56	1610	12	22	16	23	8.4	5.5	5.1	5.1
23	2.7	3.5	33	102	12	28	14	21	8.1	5.8	4.9	5.1
24	2.7	3.3	124	102	13	34	14	20	7.8	5.8	4.9	5.1
25	2.7	3.2	134	41	14	32	20	19	7.8	5.8	4.9	5.5
26	2.9	3.2	35	31	15	27	23	19	19	6.5	4.9	4.9
27	3.0	3.0	19	87	16	25	19	17	21	6.5	5.3	4.7
28	3.0	3.0	14	33	18	22	17	14	10	6.2	5.3	4.5
29	3.2	3.0	12	23	---	26	19	14	8.7	6.2	5.1	4.5
30	3.2	2.9	11	20	---	19	24	13	7.5	6.2	4.9	4.5
31	3.2	---	10	17	---	14	---	12	---	6.2	4.9	---
TOTAL	119.3	145.2	2232.0	5257.3	441	633	625	864	328.0	187.7	163.5	146.0
MEAN	3.85	4.84	72.0	170	15.8	20.4	20.8	27.9	10.9	6.05	5.27	4.87
MAX	24	13	835	1610	24	39	33	46	21	7.3	6.0	5.5
MIN	2.4	2.9	2.7	7.5	12	12	14	12	7.5	5.5	4.9	4.5
AC-FT	237	288	4430	10430	875	1260	1240	1710	651	372	324	290
MEAN†	32.0	25.4	186	391	58.0	75.9	103	413	346	66.5	10.2	5.93
AC-FT†	1970	1510	11440	24060	3220	4670	6150	25400	20580	4090	628	353

CAL YR 1969 TOTAL 10796.90 MEAN 29.6 MAX 835 MIN .70 AC-FT 21420 MEAN† 188 AC-FT† 136000
WTR YR 1970 TOTAL 11142.00 MEAN 30.5 MAX 1610 MIN 2.4 AC-FT 22100 MEAN† 144 AC-FT† 104100

† ADJUSTED FOR DIVERSION TO RUBICON-ROCKBOUND TUNNEL.

11428300 BUCK-LOON TUNNEL NEAR MEEKS BAY, CALIF.

LOCATION.--Lat 39°00'15", long 120°15'20", in NW¼ sec.6, T.13 N., R.16 E., El Dorado County, Eldorado National Forest, on right bank at tunnel intake near left abutment of diversion dam, 7.6 miles southwest of Meeks Bay.

PERIOD OF RECORD.--November 1963 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 6,425.0 ft above mean sea level (levels by Sacramento Municipal Utility District).

AVERAGE DISCHARGE.--7 years, 138 cfs (99,980 acre-ft per year).

EXTREMES.--Period of record: Maximum daily discharge, 1,240 cfs Dec. 23, 1964; no flow for many days in each year.

REMARKS.--Records good except those for periods of indefinite stage-discharge relation, which are fair. Tunnel diverts from Buck Island Lake and discharges into Loon Lake. Stop logs are normally installed in tunnel entrance in the summer and removed each fall to raise the level of Buck Island Lake for recreation purposes. See schematic diagram of Middle Fork American and Rubicon River basins elsewhere in this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.30	0	42	36	20	18	315	418	154	2.0	2.0	1.2
2	.20	0	40	30	19	20	370	454	129	2.0	1.8	1.2
3	.20	0	41	27	17	19	349	514	113	2.0	1.8	1.0
4	.20	0	48	28	18	17	319	552	104	2.0	1.8	1.0
5	.20	0	53	32	21	17	312	624	107	2.0	1.8	1.0
6	.20	0	49	36	27	16	374	602	116	2.0	1.8	1.0
7	.20	0	45	43	24	20	404	557	130	2.0	1.8	1.0
8	.20	0	42	40	22	22	414	563	124	2.0	1.8	1.0
9	.10	0	40	33	20	25	393	576	128	2.0	1.8	.50
10	.10	0	38	28	19	57	332	580	144	2.0	1.6	0
11	.10	0	36	26	17	100	228	571	164	2.0	1.6	0
12	133	0	34	24	17	84	164	438	153	2.0	1.6	0
13	61	0	33	23	15	117	136	396	145	2.0	1.6	0
14	16	31	31	22	15	156	136	442	152	2.0	1.6	0
15	2.5	95	29	23	16	131	182	419	152	2.0	1.6	0
16	1.5	96	26	22	15	95	270	409	145	2.0	1.6	0
17	1.0	140	24	21	15	61	383	423	136	2.0	1.6	0
18	.80	375	22	21	16	45	401	404	121	2.0	1.4	0
19	.50	223	21	20	17	44	261	413	108	2.0	1.4	0
20	.30	128	19	20	17	42	177	454	98	2.0	1.4	0
21	.10	79	19	19	16	38	164	487	88	2.0	1.4	0
22	54	63	18	19	15	36	196	478	73	2.0	1.4	0
23	24	63	17	19	18	36	218	396	60	2.0	1.4	0
24	9.4	69	18	19	21	45	295	347	52	2.0	1.4	0
25	3.8	66	30	18	20	63	419	361	36	2.0	1.4	0
26	1.8	62	25	17	19	85	551	378	2.0	2.0	1.2	0
27	1.0	58	24	16	17	116	527	356	2.0	2.0	1.2	0
28	.60	51	24	16	16	153	403	348	2.0	2.0	1.2	0
29	.30	46	34	16	---	191	387	335	2.0	2.0	1.2	0
30	0	44	36	23	---	227	393	276	2.0	2.0	1.2	0
31	0	---	42	22	---	260	---	202	---	2.0	1.2	---
TOTAL	313.60	1689	1000	759	509	2356	9473	13773	2942.0	62.0	47.6	8.90
MEAN	10.1	56.3	32.3	24.5	18.2	76.0	316	444	98.1	2.00	1.54	.30
MAX	133	375	53	43	27	260	551	624	164	2.0	2.0	1.2
MIN	0	0	17	16	15	16	136	202	2.0	2.0	1.2	0
AC-FT	622	3350	1980	1510	1010	4670	18790	27320	5840	123	94	18

CAL YR 1965 TOTAL 55659.50 MEAN 152 MAX 1100 MIN 0 AC-FT 110400
WTR YR 1966 TOTAL 32933.10 MEAN 90.2 MAX 624 MIN 0 AC-FT 65320

NOTE.--STAGE-DISCHARGE RELATION INDEFINITE JUNE 16 TO SEPT. 9.

11428300 BUCK-LOON TUNNEL NEAR MEEKS BAY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	189	29	124	39	50	33	369	888	150	3.0
2		0	169	27	78	44	43	38	257	889	136	1.7
3		0	182	26	57	46	38	42	223	868	121	1.0
4		0	136	26	50	48	38	57	397	847	112	.80
5		0	161	26	46	39	39	61	527	840	96	.80
6		0	232	26	44	33	38	60	511	822	75	.60
7		0	274	24	45	35	42	110	589	777	55	.60
8		0	194	23	43	38	39	220	622	724	18	.60
9		0	128	22	43	45	39	344	704	687	.40	.60
10		0	100	21	45	51	38	297	736	612	.40	.60
11		0	88	20	46	44	39	174	815	556	.40	.60
12		0	76	22	48	41	37	116	722	557	.40	.60
13		0	66	23	49	43	36	98	601	505	.60	.40
14		0	59	25	50	48	39	121	604	431	.60	.40
15		0	52	28	48	50	39	241	791	385	.60	.40
16		8.1	48	31	39	300	38	392	878	361	2.1	37
17		76	46	32	37	1030	38	550	896	317	16	71
18		87	45	30	38	800	38	686	897	291	28	51
19		57	44	27	40	360	38	686	888	276	33	35
20		197	44	30	38	200	37	753	882	220	34	24
21		197	44	52	33	125	34	970	890	206	32	15
22		119	42	58	33	114	32	1010	889	197	25	9.9
23		75	38	41	34	103	30	1010	881	198	20	5.6
24		54	35	52	34	86	30	1010	882	215	17	2.7
25		42	32	55	32	71	29	998	895	198	22	1.4
26		36	30	51	31	62	28	976	895	172	30	.80
27		32	27	134	31	55	34	953	889	148	30	.60
28		210	51	203	34	58	38	879	893	144	23	.50
29		933	50	253	---	60	34	788	895	154	15	.40
30		535	38	280	---	55	32	693	895	157	8.8	.30
31		---	31	208	---	54	---	558	---	159	5.0	---
TOTAL	0	2658.1	2751	1905	1270	4177	1104	14924	21813	13801	1107.30	267.90
MEAN	0	88.6	88.7	61.5	45.4	135	36.8	481	727	445	35.7	8.93
MAX	0	933	274	280	124	1030	50	1010	897	889	150	71
MIN	0	0	27	20	31	33	28	33	223	144	.40	.30
AC-FT	0	5270	5460	3780	2520	8290	2190	29600	43270	27370	2200	531

CAL YR 1966 TOTAL 35339.60 MEAN 96.8 MAX 933 MIN 0 AC-FT 70100
WTR YR 1967 TOTAL 65778.30 MEAN 180 MAX 1030 MIN 0 AC-FT 130500

NOTE.--STAGE-DISCHARGE RELATION INDEFINITE FEB. 4 TO MAR. 21, AUG. 8 TO SEPT. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.13	0	8.2	16	32	124	244	478	304	.29	.52	5.2
2	.39	0	7.8	14	36	114	185	472	327	.34	.50	4.7
3	72	0	8.2	12	64	107	119	452	363	.50	.47	4.3
4	151	0	14	10	68	109	95	498	322	.77	.44	3.8
5	128	0	25	8.6	49	114	105	474	261	1.2	.42	3.5
6	112	0	22	7.0	37	102	100	340	184	1.9	.39	3.3
7	88	0	26	6.2	30	84	88	277	140	2.8	.37	3.0
8	67	0	26	5.3	27	76	98	298	123	5.2	.35	2.7
9	42	0	22	5.3	26	67	131	331	123	7.0	.33	2.5
10	17	0	20	11	26	57	151	373	137	9.4	.31	2.3
11	8.6	0	18	12	24	49	296	373	161	10	.30	2.2
12	5.0	0	17	9.0	23	45	309	296	186	10	.28	1.9
13	3.2	0	16	8.2	24	48	271	239	183	8.4	.26	1.7
14	2.2	0	12	9.0	23	49	242	192	160	7.1	.25	1.5
15	1.3	0	7.4	166	21	44	278	183	163	5.5	.24	1.4
16	.90	0	7.0	312	20	44	252	172	171	4.4	.23	1.3
17	.64	0	7.8	168	48	45	176	206	181	3.4	.22	1.2
18	.44	0	14	94	157	40	123	267	171	2.8	.21	73
19	.32	1.5	18	61	176	36	102	386	158	2.2	.28	30
20	.20	24	15	44	952	32	110	464	139	1.9	7.8	14
21	.11	35	12	38	1000	32	117	517	123	1.6	14	4.8
22	.04	29	9.8	36	502	36	105	376	116	1.2	20	1.9
23	0	20	8.6	35	500	39	105	238	112	1.1	25	.97
24	0	12	8.2	35	613	44	136	172	101	1.0	20	.53
25	0	7.4	7.8	35	331	53	168	185	88	.93	15	.32
26	0	4.5	10	35	204	55	244	283	73	.83	11	.15
27	0	3.2	16	36	162	54	306	360	21	.77	9.0	.03
28	0	3.4	24	32	153	56	315	425	.20	.71	8.1	0
29	0	3.4	26	28	136	98	407	476	.22	.67	7.3	0
30	0	7.4	23	35	---	164	482	402	.23	.61	6.5	0
31	0	---	19	36	---	210	---	328	---	.58	6.0	---
TOTAL	700.47	150.8	475.8	1359.6	5464	2227	5860	10533	4591.65	95.10	156.07	172.20
MEAN	22.6	5.03	15.3	43.9	188	71.8	195	340	153	3.07	5.03	5.74
MAX	151	35	26	312	1000	210	482	517	363	10	25	73
MIN	0	0	7.0	5.3	20	32	88	172	.20	.29	.21	0
AC-FT	1390	299	944	2700	10840	4420	11620	20890	9110	189	310	342

CAL YR 1967 TOTAL 61696.27 MEAN 169 MAX 1030 MIN 0 AC-FT 122400
WTR YR 1968 TOTAL 31785.69 MEAN 86.8 MAX 1000 MIN 0 AC-FT 63050

NOTE.--STAGE-DISCHARGE RELATION INDEFINITE JUNE 27 TO SEPT. 18.

11428300 BUCK-LOON TUNNEL NEAR MEEKS BAY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	19	34	30	52	34	338	478	1110	375	69	1.3
2	0	66	34	29	46	32	280	439	1040	403	60	1.3
3	0	967	32	29	42	33	198	320	1130	415	56	1.2
4	0	572	31	30	39	30	141	229	1140	362	53	1.2
5	0	182	30	36	41	30	156	287	1140	341	50	1.2
6	0	66	30	39	42	30	141	544	1120	328	45	1.2
7	0	45	28	42	40	29	102	732	1080	299	15	1.2
8	0	41	28	45	38	29	83	812	912	298	3.4	1.2
9	0	48	28	42	36	29	80	967	638	366	3.0	1.1
10	0	79	30	38	35	29	83	1070	493	354	2.9	1.1
11	0	53	38	36	35	27	115	1120	416	338	2.8	1.0
12	0	303	37	39	36	26	168	1040	458	317	2.7	1.0
13	0	242	35	55	34	26	223	920	609	316	2.6	44
14	0	87	34	100	34	25	203	965	816	314	2.5	25
15	1.9	48	34	87	40	24	153	862	1100	313	2.4	64
16	17	43	36	61	38	26	121	780	1120	281	2.3	38
17	20	42	34	45	36	30	146	914	952	231	2.3	16
18	21	124	32	44	34	36	231	965	699	204	2.2	6.2
19	20	380	33	257	34	38	226	811	696	201	2.1	2.9
20	16	182	32	643	33	40	293	918	692	200	2.1	1.6
21	13	79	30	489	32	39	387	837	601	191	2.0	.90
22	9.8	50	29	240	31	34	496	882	552	180	2.0	.53
23	7.0	58	30	212	34	34	535	1070	588	183	1.9	.36
24	4.8	56	36	103	36	38	378	1130	556	179	1.8	.23
25	3.4	48	42	108	36	40	217	1120	521	160	1.7	.09
26	2.9	44	40	189	38	47	153	1140	422	134	1.6	.03
27	2.3	40	37	197	34	64	140	1150	374	114	1.6	0
28	1.9	38	37	104	34	94	181	1080	351	101	1.5	0
29	1.8	35	36	76	---	131	339	969	324	95	1.4	0
30	5.0	34	34	66	---	188	454	1030	331	94	1.4	0
31	16	---	30	57	---	284	---	1120	---	80	1.4	---
TOTAL	163.8	4071	1031	3568	1040	1596	6761	26701	21981	7767	399.6	213.84
MEAN	5.28	136	33.3	115	37.1	51.5	225	861	733	251	12.9	7.13
MAX	21	967	42	643	52	284	535	1150	1140	415	69	64
MIN	0	19	28	29	31	24	80	229	324	80	1.4	0
AC-FT	325	8070	2040	7080	2060	3170	13410	52960	43600	15410	793	424

CAL YR 1968 TOTAL 35724.40 MEAN 97.6 MAX 1000 MIN 0 AC-FT 70860
WTR YR 1969 TOTAL 75293.24 MEAN 206 MAX 1150 MIN 0 AC-FT 149300

NOTE.--STAGE-DISCHARGE RELATION INDEFINITE AUG. 7 TO SEPT. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	5.9	8.2	51	70	67	75	90	548	166	8.3	.30
2	0	4.8	7.8	45	64	57	71	152	581	167	7.7	.30
3	0	4.0	7.4	40	58	48	89	268	666	188	6.5	.30
4	0	3.4	7.0	36	57	42	104	407	659	205	5.6	.30
5	0	4.5	5.9	34	56	40	130	484	581	215	4.7	.30
6	0	19	5.0	30	55	37	177	534	560	216	3.9	.30
7	0	32	4.8	29	52	38	203	423	540	176	3.1	.30
8	0	38	5.0	29	54	44	200	372	534	148	2.5	.30
9	0	40	5.6	51	57	44	190	397	802	134	2.1	.30
10	0	40	7.4	110	55	42	229	458	655	37	1.8	.30
11	0	40	9.8	85	55	38	232	294	383	.30	1.7	.30
12	0	44	9.4	61	64	36	205	298	282	.30	1.6	.30
13	0	48	12	54	72	40	180	291	235	2.5	1.4	.30
14	0	50	17	87	66	72	145	337	229	40	1.3	.30
15	0	50	19	107	57	116	107	485	193	58	1.2	.30
16	245	66	19	697	51	102	86	431	183	60	1.2	.30
17	336	67	17	1120	54	93	73	882	218	54	1.2	.30
18	152	48	16	688	48	81	66	946	279	42	1.2	.30
19	75	35	82	324	42	66	71	879	374	34	1.1	34
20	47	28	915	556	39	57	74	664	445	33	1.0	52
21	36	23	1190	1040	40	55	67	553	575	30	1.0	17
22	37	21	931	1190	42	62	61	592	535	28	.80	2.0
23	41	19	414	1030	42	81	55	638	491	24	.45	.70
24	36	16	263	619	44	111	51	657	440	20	.30	.32
25	32	15	360	291	45	147	61	650	387	17	.30	.09
26	26	14	264	188	48	149	102	748	360	14	.30	0
27	20	12	144	185	51	133	104	767	654	12	.30	0
28	16	11	96	153	56	114	79	611	488	10	.30	0
29	12	9.4	72	111	---	114	66	521	276	9.8	.30	0
30	9.4	9.0	63	93	---	115	66	515	192	9.2	.30	0
31	7.4	---	56	79	---	97	---	551	---	8.9	.30	---
TOTAL	1129.8	817.0	5033.3	9213	1494	2338	3419	15895	13345	2159.00	63.75	111.51
MEAN	36.4	27.2	162	297	53.4	75.4	114	513	445	69.6	2.06	3.72
MAX	336	67	1190	1190	72	149	232	946	802	216	8.3	52
MIN	0	3.4	4.8	29	39	36	51	90	183	.30	.30	0
AC-FT	2240	1620	9980	18270	2960	4640	6780	31530	26470	4280	126	221

CAL YR 1969 TOTAL 77007.50 MEAN 211 MAX 1190 MIN 0 AC-FT 152700
WTR YR 1970 TOTAL 55018.36 MEAN 151 MAX 1190 MIN 0 AC-FT 109100

NOTE.--STAGE-DISCHARGE RELATION INDEFINITE JULY 10 TO SEPT. 20.

11428700 HELL HOLE RESERVOIR NEAR MEEKS BAY, CALIF.

LOCATION.--Lat 39°03'54", long 120°24'50", in SE¼NW¼ sec.16, T.14 N., R.14 E., Placer County, Eldorado National Forest, on right bank 0.3 mile upstream from Hell Hole Dam on Rubicon River and 15.6 miles west of Meeks Bay.

DRAINAGE AREA.--114 sq mi.

PERIOD OF RECORD.--December 1965 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Placer County Water Agency).

EXTREMES.--Maximums and minimums (contents in acre-feet, elevation in feet) for December 1965 to September 1970 are contained in the following table:

	Maximum			Minimum		
Wtr yr	Date	Contents	Elevation	Date	Contents	Elevation
1966	June 29, 30, 1966	151,300	4,580.8	-	-	-
1967	June 17, 1967	209,500	4,631.5	May 6, 1967	143,100	4,572.5
1968	Oct. 1, 1967	159,500	4,588.7	Feb. 16, 1968	93,300	4,513.7
1969	June 16, 18, 1969	208,300	4,630.6	Mar. 28, 1969	93,500	4,513.9
1970	June 7, 1970	206,800	4,629.4	Dec. 18, 1969	54,200	4,457.6

Period of record: Maximum contents, 209,500 acre-ft June 17, 1967 (elevation, 4,631.5 ft); minimum since reservoir first filled, 54,200 acre-ft Dec. 18, 1969 (elevation, 4,457.6 ft).

REMARKS.--Reservoir is formed by a rockfill dam with earth core. Storage began Dec. 6, 1965. Usable capacity, 202,400 acre-ft between elevations 4,340.0 (minimum operating level) and 4,630.0 ft (crest of ogee spillway) above mean sea level. Dead storage, 248 acre-ft. Records, including extremes, represent total contents. See schematic diagram of Middle Fork American and Rubicon River basins elsewhere in this report.

Capacity table, December 1965 to September 1970 (elevation, in feet, and contents, in acre-feet)

4,450	49,600	4,550	127,700	4,650	233,400
4,500	83,000	4,600	171,900		

CONTENTS, IN ACRE-FEET, AT 2400, DECEMBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			---	15700	31700	45000	66400	110500	147900	151200	150500	148900
2			---	15700	32400	45200	68200	112000	148400	151200	150400	148900
3			---	15700	33200	45300	70000	113700	148600	151200	150400	148900
4			---	15700	34100	45400	71700	115400	148800	151200	150400	148800
5			---	15700	35000	45600	73400	117100	149000	151200	150300	148800
6			520	16000	35900	45800	75200	118600	149300	151100	150300	148800
7			648	16200	36800	46100	76800	120100	149400	151100	150300	148800
8			795	16400	37600	46500	78500	121600	149700	151100	150300	148600
9			966	16800	38400	47200	80200	123000	149900	151100	150300	148500
10			1150	17200	39200	48200	81900	124800	150000	151100	150300	148300
11			1310	17300	40000	49100	83600	126200	150100	151100	150200	148300
12			1500	17500	40900	50000	84800	127400	150300	151100	150200	147800
13			1670	17600	41700	50900	85900	129400	150500	151100	150200	147700
14			2180	17700	42500	51800	87000	129700	150600	151100	150100	147700
15			2990	17900	42900	52500	88400	130600	150800	151100	150100	147200
16			3670	18800	43000	53100	90000	131600	150900	151000	150100	147100
17			4370	19700	43100	53500	91900	132500	150900	151000	150100	147000
18			5190	20500	43300	53900	93400	133400	151000	151000	150000	147000
19			5920	21100	43400	54300	94500	134800	151100	151000	149900	146800
20			6680	22000	43500	54700	95500	136500	151100	150900	149800	146700
21			7500	22800	43700	55100	96500	138100	151100	150900	149700	146500
22			8170	23700	43800	55500	97500	139600	151200	151000	149600	146400
23			8870	24600	44000	55900	98700	140800	151200	150900	149500	146600
24			9670	25400	44200	56400	100000	141600	151200	150900	149500	147300
25			10400	26200	44400	57300	101700	143000	151200	150900	149300	148100
26			11200	26800	44500	58100	103600	144200	151200	150800	149100	148800
27			11900	27600	44700	59000	105000	145300	151200	150800	149100	149000
28			12700	28500	44800	60100	106400	146300	151200	150700	149000	149800
29			13600	29300	---	61500	107700	146700	151300	150600	149000	150500
30			14400	30200	---	63000	109100	146800	151300	150500	149000	151100
31			15200	31000	---	64700	---	147000	---	150500	149000	---
MAX				31000	44800	64700	109100	147000	151300	151200	150500	151100
MIN				15700	31700	45000	66400	110500	147900	150500	149000	146400
(†)							4533.6	4576.5	4580.8	4580.0	4578.5	4580.6
(‡)			+15200	+15800	+13800	+19900	+44400	+37900	+4300	-800	-1500	+2100

WTR YR 1966 MAX 151300 MIN 520

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11428700 HELL HOLE RESERVOIR NEAR MEEKS BAY, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	151900	150900	159000	179400	181500	172000	166700	144500	194300	208600	189500	160200
2	152500	151500	160700	178800	182400	171200	166100	143800	194500	208600	188400	159900
3	153200	152000	162300	178200	183300	170500	165400	143600	195100	208300	187400	160600
4	153900	152300	162900	177500	184200	169800	164800	143300	196100	208100	186300	161200
5	154600	152800	165200	176400	185000	169200	165100	143200	197800	208000	185200	161500
6	154300	153500	167600	175300	185600	168400	164100	143100	199500	207800	184200	160300
7	154500	154000	169200	173900	185200	167600	162700	144000	201000	207500	183100	159300
8	154300	154600	170300	172400	184900	166900	161300	144700	202900	207300	182100	158000
9	154100	154800	171400	171200	183800	166100	159800	146000	204300	207100	180900	157500
10	153800	154700	172800	170100	183700	165400	158500	146700	206200	206700	179900	158200
11	153400	154700	173900	169000	183700	164900	157600	146600	207800	206300	178700	158200
12	152700	154700	174900	167900	183700	163700	157000	146400	208600	205800	177700	158000
13	152400	154600	175900	166700	183700	162200	156300	146200	208600	205500	177000	157800
14	151900	154600	176900	166700	183300	160700	155800	146500	208700	205000	175900	157600
15	151600	154700	177800	166900	182800	159600	155100	147700	209000	204500	174800	157000
16	151500	155300	178100	167300	182100	165200	154300	149700	209200	203800	173800	157600
17	151700	155400	178200	167600	181000	168700	153700	152200	209500	203200	172700	157300
18	151300	155400	178900	168000	180100	169700	153000	154800	209300	202500	171300	156800
19	151000	155600	178800	168100	179300	169800	152700	157300	209200	201700	170200	156600
20	150200	156500	178400	168700	178600	169800	152500	160800	209100	200900	170600	156400
21	149500	156700	178000	170100	177800	169700	151700	164800	209200	200100	169700	156200
22	149800	157000	177700	170500	177000	169700	150900	169100	209000	199900	168600	156000
23	150100	157100	178400	170900	176300	169800	150100	173200	208700	198300	167200	156300
24	150200	157100	179400	171200	175600	169600	149300	177100	208800	197300	166100	157100
25	150000	157200	180400	171400	174900	169500	148500	180400	209000	196500	165000	157700
26	149400	157300	181400	172100	174100	169200	147700	183500	208800	195500	165400	158300
27	149200	157400	182200	173200	173300	168600	147000	186300	208700	194400	165800	159000
28	149200	158000	181700	174100	172700	168200	146200	188800	208800	193500	164600	159600
29	149700	159300	181100	176900	---	167600	146200	191000	209000	192500	163500	159700
30	150200	158400	180500	179000	---	167300	145300	192600	208800	191500	162400	159500
31	150500	---	180100	180400	---	167300	---	193800	---	190400	161300	---
MAX	154600	159300	182200	180400	185600	172000	166700	193800	209500	208600	189500	161500
MIN	149200	150900	159000	166700	172700	159600	145300	143100	194300	190400	161300	156000
(†)	4580.0	4587.7	4607.2	4607.5	4600.7	4595.9	4574.8	4618.8	4631.0	4616.0	4590.4	4588.7
(‡)	-600	+7900	+21700	+300	-7700	-5400	-22000	+48500	+15000	-18400	-29100	-1800

CAL YR 1966 MAX 182200 MIN 15700 ‡ +164900
WTR YR 1967 MAX 209500 MIN 143100 ‡ +8400

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	159500	142100	127400	102800	93500	119300	127800	140000	153700	150900	154000	149900
2	159000	141900	125600	102000	93400	120200	128300	140800	154500	150500	153700	149900
3	158200	142000	124200	101400	93900	121000	128600	141200	154100	149900	153600	149100
4	157200	142000	123000	100600	94300	121200	129000	142400	154000	150500	153600	148300
5	156200	142000	122100	99800	94200	121400	129200	143700	154100	150300	153200	147700
6	154900	141400	120700	99500	94000	121500	129900	144100	154100	150900	153600	147000
7	153500	141000	119400	99500	93900	121900	130600	144400	153900	151400	154200	146400
8	153500	140400	117900	98600	93800	122000	130900	144600	154500	151000	154700	146400
9	152700	140000	116100	97900	93800	122500	131400	145100	154900	151500	155300	145700
10	151800	139500	114400	97500	94000	122900	132100	145600	154500	151300	155300	144700
11	152500	139100	112900	96400	94300	122600	133000	146600	154200	151500	155300	143600
12	149700	139100	111300	95800	94600	122500	133000	147400	154200	151800	155600	143100
13	148600	139200	109500	95900	94200	122900	133900	147500	153900	152400	155300	142100
14	148600	140000	107800	96100	93900	122800	135100	147700	153300	153000	155200	141900
15	148500	140700	106200	97800	93400	122800	135400	147900	153700	153400	155000	141900
16	147900	141000	106200	98600	93300	123400	135300	147700	154000	154000	154800	141000
17	148100	141400	106200	98400	94900	123700	134900	147600	153700	154700	154900	140000
18	148700	141400	106400	98100	95800	123600	134100	148500	153200	154800	154900	139100
19	149300	141700	105900	97800	97400	123100	133200	149700	152900	155200	155000	138400
20	149300	141200	105100	98000	102100	122900	133900	150300	152700	155100	155000	137600
21	149200	140800	103900	98200	105300	122600	134500	150700	152600	155100	154900	137500
22	149200	140700	102600	97900	107200	122500	134300	151100	152400	155000	154900	137500
23	148500	139800	102600	97400	111300	122700	134200	151300	152600	155000	154700	136400
24	147300	139100	102700	97100	113400	123200	134300	151100	152300	155000	153800	136300
25	146100	137200	102800	96800	114800	123400	134700	152000	151900	154600	153500	135600
26	145000	135400	103000	96200	116100	123400	135100	152900	151600	154600	152800	135000
27	144000	133700	103300	96000	117200	123500	135900	153200	151300	154500	151900	134200
28	142200	131800	102600	96100	118300	123700	137100	153300	151200	154500	151100	134200
29	141100	130200	102500	95400	118800	124300	138000	153200	151300	154300	150500	134200
30	141000	128800	102500	95000	---	125500	139100	153700	151500	154300	149900	134200
31	141600	---	102600	94100	---	126800	---	153500	---	154300	149900	---
MAX	159500	142100	127400	102800	118800	126800	139100	153700	154900	155200	155600	149900
MIN	141000	128800	102500	94100	93300	119300	127800	140000	151200	149900	149900	134200
(†)	4571.0	4557.0	4525.6	4514.7	4545.4	4554.7	4568.3	4583.0	4581.0	4583.8	4579.4	4561.9
(‡)	-17900	-12800	-26200	-8500	+24700	+8000	+12300	+14400	-2000	+2800	-4400	-16700

CAL YR 1967 MAX 209500 MIN 102500 ‡ -77500
WTR YR 1968 MAX 159500 MIN 93300 ‡ -26300

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11428700 HELL HOLE RESERVOIR NEAR MEEKS BAY, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	132200	115300	109600	99400	131100	112200	95900	111900	191300	205200	179200	145800
2	131300	115600	109100	98900	130900	111500	96300	112700	193200	204700	178200	144600
3	130300	117600	108300	98400	130600	110600	96300	113700	195500	204100	177100	143400
4	129300	117500	107900	98700	130100	109700	96200	114800	197700	203800	176100	142100
5	129400	117100	107200	99100	130000	108900	96600	117300	199800	203700	175100	140900
6	129400	117600	106600	98700	129800	108000	96500	120200	201500	203700	174100	139700
7	128400	117100	106700	98300	129300	107200	96100	123200	202600	203200	173000	138700
8	127500	116000	106900	97500	128900	106200	95700	127100	203500	202600	172000	137700
9	126500	115900	106100	96900	128300	105300	95300	131300	204200	201900	170700	137000
10	125600	116000	105600	96200	127600	104400	95100	135500	204500	201100	169600	135800
11	124600	115600	105500	96000	126900	103400	95300	140300	204700	200400	168400	134700
12	124600	115800	105000	96300	126200	102500	96000	144700	205100	199500	169000	133700
13	124700	115200	104500	97700	125400	101800	96700	148700	205600	198800	168400	134300
14	124100	114600	104200	99500	124700	101000	97000	151700	206600	197900	167300	134100
15	123200	114000	104700	99500	124000	100100	96800	153400	208200	197100	166100	133100
16	122100	114100	104500	99400	123100	99200	96900	155500	208300	196400	165000	131700
17	121200	114100	104100	99200	122300	98500	97200	158200	208100	195500	163800	130600
18	120300	114100	103400	99800	121400	97700	98000	160800	208300	194500	162400	129300
19	120200	113800	102800	105800	120700	97100	98800	162800	208200	193600	161200	128200
20	120200	113200	101700	114300	119800	96400	100600	164600	208100	192600	160000	128700
21	119200	112400	100700	118800	119000	95600	102400	166400	208000	191600	158900	129300
22	118600	111800	99900	120600	118100	94900	104300	168800	207800	190200	157800	129000
23	118800	111900	99800	121800	117300	94200	105900	171400	207700	188800	156500	127700
24	119000	112200	99800	123100	116600	94900	106600	174200	207500	187400	155400	126600
25	119500	111500	100000	125600	115800	94300	106700	176500	207200	186300	154100	125400
26	119500	110800	99900	129200	115000	93900	106700	178600	206800	185200	152900	124700
27	119500	110000	99200	130300	113900	93600	107600	181000	206300	184300	151900	124900
28	118800	110000	100000	130800	113200	93500	108400	182800	206000	183200	150700	125600
29	118000	109300	100300	131000	---	93700	109600	184800	205600	182300	149500	125000
30	117100	109500	99700	131100	---	94200	111000	186900	205500	181200	148200	123800
31	116300	---	99200	131300	---	95200	---	189300	---	180200	147200	---
MAX	132200	117600	109600	131300	131100	112200	111000	189300	208300	205200	179200	145800
MIN	116300	109300	99200	96000	113200	93500	95100	111900	191300	180200	147200	123800
(†)	4542.4	4534.2	4521.3	4559.8	4538.6	4516.1	4536.0	4615.0	4628.3	4607.3	4576.7	4550.1
(‡)	-16900	-6800	-10300	+32100	-18100	-18000	+15800	+78300	+16200	-25300	-33000	-24400

CAL YR 1968 MAX 155600 MIN 93300 ‡ -3400
WTR YR 1969 MAX 208300 MIN 93500 ‡ -9400

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122700	100900	59800	75400	146600	142900	150200	164600	205500	199000	190100	158300
2	121600	99000	58900	74700	146600	142400	150100	165500	206200	198900	189600	157100
3	120400	97700	58800	73700	146500	141900	150100	166700	206500	199200	189100	155900
4	120400	96600	58500	72600	146900	141300	150700	168200	206600	199300	188300	154700
5	120400	95800	58700	71600	147400	141100	151400	169700	206100	199500	187200	153500
6	119500	95300	58900	70100	147600	140700	151700	171100	206600	199700	186200	152400
7	118700	94400	59000	68600	147400	140200	152400	172100	206800	199800	185100	151300
8	118800	93400	58700	67200	147100	139900	152800	173200	206100	199500	184000	150000
9	118800	92300	58300	67000	147300	139600	153600	174300	206000	199700	182900	148800
10	118800	91100	57800	68300	147700	139700	154600	175500	205300	199400	181800	147700
11	118700	89800	57100	68900	147900	139600	155400	176400	204500	199400	180900	146500
12	118700	88500	56600	68900	147800	139500	156200	177000	203500	199700	179900	146200
13	118000	87000	57000	69000	148100	139700	156800	177800	203000	199800	178900	145000
14	116900	85800	56800	72200	147500	140100	157500	178800	203000	199800	178000	143600
15	116100	84100	56300	73900	147200	141600	157900	180400	202500	200100	177100	142400
16	116100	82400	55700	86700	147100	143000	158400	182400	201300	200600	176100	141100
17	115400	80900	54800	91900	147000	144500	158900	184800	200100	200600	174900	139900
18	115400	79400	54200	93800	146600	145900	159300	186800	198800	200300	173900	138800
19	115300	77900	54800	96600	146200	146600	159900	188800	197700	200300	172900	137600
20	114700	76600	59400	100800	145700	146700	160200	190100	197700	199500	172000	136300
21	113600	75000	64900	120800	145300	147200	160700	191400	198200	198900	170500	135000
22	112700	73200	70000	133800	144800	147800	160900	192800	198800	198100	169400	133700
23	111500	71500	70500	137100	144500	148000	161100	194700	199200	197100	168200	132500
24	110600	70100	74600	139600	143700	148300	161300	196400	199700	196400	167100	131400
25	109500	68800	78400	140900	144200	148700	161700	197800	200000	195400	166000	130000
26	108400	67500	79100	141800	143800	148900	162500	199400	199900	194800	164900	128800
27	107300	66200	78900	143900	143300	149000	162900	200600	200400	193900	163800	127600
28	106200	64900	78400	144500	143000	149600	163100	201700	200500	193500	162600	126300
29	105100	63100	77800	146400	---	150300	163300	202900	199900	192400	161500	125100
30	104000	61200	77100	146000	---	150500	163800	203800	199400	191600	160500	123700
31	102800	---	76300	146400	---	150400	---	204700	---	191000	159400	---
MAX	122700	100900	79100	146400	148100	150500	163800	204700	206800	200600	190100	158300
MIN	102800	61200	54200	67000	143000	139500	150100	164600	197700	191000	159400	123700
(†)	4525.8	4468.6	4490.7	4575.9	4572.4	4579.9	4592.7	5627.7	4623.4	4616.5	4588.6	4551.2
(‡)	-21000	-41600	+15100	+70100	-3400	+7400	+13400	+40900	-5300	-8400	-31600	-35700

CAL YR 1969 MAX 208300 MIN 54200 ‡ -22900
WTR YR 1970 MAX 206800 MIN 54200 ‡ -100

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11428800 RUBICON RIVER BELOW HELL HOLE DAM, NEAR MEEKS BAY, CALIF.

LOCATION.--Lat 39°03'24", long 120°24'25", in NE¼NE¼ sec.21, T.14 N., R.14 E., Placer County, Eldorado National Forest, on right bank 600 ft downstream from outlet of dam, 2.4 miles downstream from Cottonwood Creek, and 15.3 miles west of Meeks Bay.

DRAINAGE AREA.--114 sq mi.

PERIOD OF RECORD.--November 1965 to September 1970.

GAGE.--Water-stage recorder and V-notch sharp-crested weir. Datum of gage is 4,231.52 ft above mean sea level (levels by Placer County Water Agency).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for November 1965 to September 1970 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Nov. 18, 1965	972	6.57	Aug. 25 to Sept. 11, 1966	0
1967	June 18, 1967	a2,290	-	Aug. 10-15, 29, 30, 1967	9.2
1968	Feb. 20, 1968	51	4.45	Aug. 28, 1968	8.8
1969	June 16, 1969	a646	-	Sept.29, 30, 1969	7.6
1970	Jan. 21, 1970	123	4.99	Oct. 7-10, 13, 14, 18-21, 1969	7.1

a Including flow over spillway.

Period of record: Maximum discharge, 2,290 cfs June 18, 1967, including flow over spillway; no flow Aug. 25 to Sept. 11, 1966.

REMARKS.--Records excellent except those for the water year 1966, which are fair, and those for period of no gage-height record, which are poor. Beginning December 1965, flow regulated by Hell Hole Reservoir (see station 11428700). Water is diverted out of the basin above station through Buck-Loon tunnel (see station 11428300). Water is diverted from Middle Fork American River basin by tunnel from French Meadows Reservoir (see station 11427400) to Hell Hole Reservoir. Water is diverted from Hell Hole Reservoir through a tunnel to Middle Fork powerplant. *Diversion began Sept. 8, 1966. See schematic diagram of Middle Fork* American and Rubicon River basins elsewhere in this report. During years when Hell Hole Dam spills, records include flow which bypass the station.

COOPERATION.--Records for the water year 1970 collected by Placer County Water Agency, under general supervision of the Geological Survey, in connection with a Federal Power Commission project.

DISCHARGE, IN CUBIC FEET PER SECOND, NOVEMBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			73	22	13	8.3	16	20	85	17	6.1	0
2			72	22	13	6.3	17	20	36	18	3.1	0
3			71	20	13	6.2	17	20	20	18	4.1	0
4			73	12	13	4.5	16	20	8.6	18	4.1	0
5			80	11	13	4.5	17	20	8.6	18	2.9	0
6		14	26	12	13	4.8	15	20	8.6	18	7.8	0
7		13	.20	11	13	5.7	13	19	27	18	16	0
8		12	.20	16	13	5.7	16	19	8.6	18	8.0	0
9		12	.40	16	13	8.0	15	20	8.6	17	3.4	0
10		12	1.0	9.1	14	12	16	21	8.6	17	8.8	0
11		12	2.4	14	14	9.9	16	20	8.5	17	12	0
12		12	1.8	17	14	9.9	17	18	8.3	17	12	14
13		12	1.3	17	15	10	17	17	8.5	17	12	26
14		59	1.1	17	15	9.9	17	19	13	17	12	26
15		131	.90	16	16	13	17	20	18	17	12	26
16		85	3.8	16	16	13	18	21	18	17	12	26
17		179	7.3	16	16	13	18	20	18	17	12	26
18		678	6.7	15	16	14	19	20	17	17	12	27
19		276	6.7	15	15	14	18	22	17	17	12	27
20		176	7.1	15	15	14	17	24	15	17	12	27
21		115	8.4	15	15	15	17	24	16	14	12	27
22		84	20	14	15	16	18	22	17	11	12	27
23		100	24	14	15	8.5	17	21	17	15	12	27
24		145	27	14	15	10	18	20	17	15	4.7	27
25		124	28	14	14	14	19	19	17	10	0	28
26		102	28	14	14	15	19	18	17	14	0	28
27		89	20	14	14	15	19	59	17	7.3	0	29
28		84	13	14	14	13	18	180	17	7.3	0	29
29		78	14	14	---	14	19	180	17	7.7	0	29
30		75	22	14	---	15	20	180	16	7.9	0	29
31		---	22	14	---	16	---	149	---	7.9	0	---
TOTAL			662.30	464.1	399	338.2	516	1272	528.9	464.1	225.0	505
MEAN			21.4	15.0	14.3	10.9	17.2	41.0	17.6	15.0	7.26	16.8
MAX			80	22	16	16	20	180	85	18	16	29
MIN			.20	9.1	13	4.5	13	17	8.3	7.3	0	0
AC-FT			1310	921	791	671	1020	2520	1050	921	446	1000
(†)												4040

† DIVERSION, IN ACRE-FEET, FROM HELL HOLE RESERVOIR TO MIDDLE FORK POWERPLANT; FURNISHED BY PLACER COUNTY WATER AGENCY.

NOTE.--NO GAGE-HEIGHT RECORD JAN. 13 TO FEB. 28.

11428800 RUBICON RIVER BELOW HELL HOLE DAM, NEAR MEEKS BAY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	26	17	14	19	16	18	16	26	994	15	9.6
2	29	19	23	14	18	16	18	17	26	898	15	9.6
3	29	19	20	14	18	16	18	18	25	792	15	9.6
4	29	18	17	14	19	16	18	19	25	437	14	9.6
5	29	17	23	14	19	16	18	20	29	281	14	9.6
6	30	17	30	14	19	16	18	22	27	177	12	10
7	30	17	19	14	18	16	18	23	28	53	9.6	11
8	30	17	17	14	18	16	19	24	27	20	9.6	11
9	30	17	17	14	18	16	19	26	27	20	9.6	11
10	30	17	17	14	18	16	19	26	27	20	9.2	10
11	30	17	16	13	18	16	18	22	41	20	9.2	10
12	30	17	16	13	18	16	18	21	518	20	9.2	10
13	30	17	16	13	18	16	19	21	814	20	9.2	10
14	31	17	16	13	18	16	18	22	873	20	9.2	10
15	31	17	14	13	17	17	17	24	1070	20	9.2	10
16	31	18	14	13	17	47	17	28	1340	20	9.6	10
17	31	17	14	13	17	34	17	31	1740	19	9.6	10
18	31	17	14	13	17	26	17	31	1990	19	9.6	10
19	31	17	14	13	17	22	17	31	1680	19	9.6	10
20	31	20	14	15	16	22	16	35	1490	19	9.6	10
21	31	18	14	26	16	22	16	38	1450	19	9.6	10
22	32	17	14	16	16	22	16	39	1440	19	9.6	10
23	32	16	14	16	16	23	16	36	1130	19	9.6	10
24	32	16	14	15	16	21	16	35	979	19	9.6	10
25	32	15	14	16	16	20	16	34	1150	19	9.6	10
26	32	15	14	18	16	19	16	33	1270	16	9.6	10
27	32	15	14	20	16	19	16	32	1110	15	9.6	10
28	32	18	14	21	16	19	16	31	1040	15	9.6	10
29	32	19	14	34	---	19	16	30	1110	15	9.2	10
30	32	17	14	26	---	19	16	28	1260	15	9.2	10
31	33	---	14	22	---	18	---	27	---	15	9.6	---
TOTAL	954	524	502	502	485	613	517	840	23762	4074	321.8	301.0
MEAN	30.8	17.5	16.2	16.2	17.3	19.8	17.2	27.1	792	131	10.4	10.0
MAX	33	26	30	34	19	47	19	39	1990	994	15	11
MIN	29	15	14	13	16	16	16	16	25	15	9.2	9.6
AC-FT	1890	1040	996	996	962	1220	1030	1670	47130	8080	638	597
(†)	13250	3540	15690	21480	35760	59410	55050	59700	59940	59040	52610	22960

CAL YR 1966 TTOAL 6692.30 MEAN 18.3 MAX 180 MIN 0 AC-FT 13270
WTR YR 1967 TOTAL 33395.80 MEAN 91.5 MAX 1990 MIN 9.2 AC-FT 66240

† DIVERSION, IN ACRE-FEET, FROM HELL HOLE RESERVOIR TO MIDDLE FORK POWERPLANT; FURNISHED BY PLACER COUNTY WATER AGENCY.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	13	15	14	14	26	26	26	24	23	14	10
2	11	16	15	14	16	26	26	26	24	23	14	10
3	11	16	15	14	17	25	26	26	24	23	14	10
4	11	16	17	14	17	25	26	26	24	23	14	9.6
5	10	16	18	14	16	25	26	25	24	23	14	9.6
6	10	16	16	14	17	25	26	25	24	23	13	9.6
7	10	16	16	14	20	25	25	24	25	23	10	9.6
8	10	16	15	14	23	26	25	24	24	23	10	9.2
9	10	16	15	14	24	26	25	24	24	23	10	9.2
10	10	16	15	14	23	25	26	24	24	23	10	9.2
11	10	16	15	14	23	24	26	24	24	23	10	9.2
12	10	16	14	14	23	25	26	24	24	23	10	9.2
13	10	16	14	14	23	25	26	24	24	23	10	9.2
14	9.6	16	14	14	23	26	26	25	24	23	10	9.2
15	9.6	16	14	20	22	26	26	25	24	23	10	9.2
16	9.6	16	14	17	22	26	26	24	24	23	10	9.2
17	10	16	14	15	29	26	26	24	24	23	10	9.2
18	10	16	14	14	25	25	25	24	24	23	9.6	9.2
19	10	17	14	14	28	25	25	24	24	23	9.6	9.6
20	10	16	14	14	38	25	25	25	24	23	9.6	9.6
21	10	16	14	14	34	25	24	25	24	23	9.6	9.6
22	10	16	14	14	30	25	24	25	24	23	9.6	9.6
23	10	16	14	14	36	25	24	24	23	23	9.6	9.6
24	10	16	16	14	32	25	24	24	23	23	9.6	9.6
25	11	15	16	14	28	26	24	24	23	23	9.6	9.6
26	11	15	16	14	27	25	24	24	23	23	9.2	9.6
27	11	15	15	14	26	24	24	24	23	23	9.2	9.6
28	11	15	15	14	26	25	24	24	23	23	8.8	9.6
29	10	15	14	14	26	25	25	24	23	19	10	9.6
30	10	15	14	14	---	26	26	24	23	14	10	9.6
31	10	---	14	14	---	26	---	24	---	14	10	---
TOTAL	315.8	472	460	444	708	784	757	759	713	691	327.0	284.8
MEAN	10.2	15.7	14.8	14.3	24.4	25.3	25.2	24.5	23.8	22.3	10.5	9.49
MAX	11	17	18	20	38	26	26	26	25	23	14	10
MIN	9.6	13	14	14	14	24	24	24	23	14	8.8	9.2
AC-FT	626	936	912	881	1400	1560	1500	1510	1410	1370	649	565
(†)	31790	23650	32620	16610	7000	12320	17210	18230	15270	7950	17090	28040

CAL YR 1967 TOTAL 32663.6 MEAN 89.5 MAX 1990 MIN 9.2 AC-FT 64790
WTR YR 1968 TOTAL 6715.6 MEAN 18.3 MAX 38 MIN 8.8 AC-FT 13320

† DIVERSION, IN ACRE-FEET, FROM HELL HOLE RESERVOIR TO MIDDLE FORK POWERPLANT; FURNISHED BY PLACER COUNTY WATER AGENCY.

11428800 RUBICON RIVER BELOW HELL HOLE DAM, NEAR MEEKS BAY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	16	15	14	32	28	35	34	35	32	9.2	8.8
2	9.2	17	15	14	31	28	34	34	35	31	9.2	8.8
3	9.2	20	15	16	31	28	33	34	35	31	8.8	8.4
4	9.2	17	15	16	31	28	32	33	34	31	8.8	8.4
5	9.2	17	15	16	30	28	35	34	33	31	8.8	8.8
6	9.2	16	15	16	30	28	32	36	33	30	8.8	8.8
7	9.2	16	15	16	30	28	31	38	32	30	8.8	8.8
8	9.2	16	15	19	30	29	31	40	32	30	8.8	8.8
9	9.2	15	15	23	30	28	31	41	32	30	8.8	8.4
10	8.8	15	16	22	30	28	32	44	32	30	9.2	8.4
11	8.8	15	16	23	30	28	32	44	32	30	9.2	8.4
12	8.8	17	15	23	30	27	34	43	32	30	9.2	8.4
13	9.2	16	14	35	29	27	33	42	32	30	9.2	8.4
14	9.2	16	15	30	29	28	32	40	32	30	9.2	8.4
15	9.6	16	17	25	30	28	32	38	73	29	9.2	8.4
16	11	16	16	23	29	29	30	39	646	29	9.2	8.4
17	11	16	14	23	29	30	31	40	473	29	9.2	8.4
18	11	17	14	26	29	30	32	40	401	29	9.2	8.4
19	11	17	14	55	29	30	32	38	563	29	9.2	8.4
20	11	16	14	69	28	29	33	38	412	29	8.8	8.8
21	11	16	14	66	28	29	37	38	272	29	8.8	8.8
22	11	16	13	42	29	29	38	38	162	29	8.8	8.4
23	11	16	14	34	29	30	39	38	124	29	8.8	8.4
24	11	15	17	35	29	29	36	37	44	30	8.8	8.4
25	11	15	16	53	28	30	34	37	32	21	8.8	8.0
26	11	15	15	52	28	32	32	37	32	10	8.8	8.0
27	12	15	14	37	27	32	32	37	32	10	8.8	8.0
28	12	15	14	34	27	33	33	36	32	9.6	8.8	8.0
29	12	15	14	33	---	35	34	36	32	9.6	8.8	7.6
30	14	15	14	32	---	36	34	36	32	9.6	8.8	7.6
31	16	---	14	32	---	37	---	37	---	9.2	8.8	---
TOTAL	324.2	480	459	954	822	919	996	1177	3823	796.0	277.6	252.0
MEAN	10.5	16.0	14.8	30.8	29.4	29.6	33.2	38.0	127	25.7	8.95	8.40
MAX	16	20	17	69	32	37	39	44	646	32	9.2	8.8
MIN	8.8	15	13	14	27	27	30	33	32	9.2	8.8	7.6
AC-FT	643	952	910	1890	1630	1820	1980	2330	7580	1580	551	500
(†)	30960	26980	26750	14280	46900	55020	49710	42180	55720	51590	53750	42240

CAL YR 1968 TOTAL 6731.0 MEAN 18.4 MAX 38 MIN 8.8 AC-FT 13350
WTR YR 1969 TOTAL 11279.8 MEAN 30.9 MAX 646 MIN 7.6 AC-FT 22370

† DIVERSION, IN ACRE-FEET, FROM HELL HOLE RESERVOIR TO MIDDLE FORK POWERPLANT; FURNISHED BY PLACER COUNTY WATER AGENCY.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	16	13	16	19	16	22	22	22	21	15	11
2	7.5	16	13	15	19	16	22	22	22	21	15	11
3	7.5	16	13	15	18	16	22	22	22	21	15	11
4	7.5	16	13	15	17	16	22	22	22	21	15	11
5	7.5	16	13	15	17	16	22	23	22	21	15	11
6	7.5	16	13	15	17	16	22	23	22	21	14	11
7	7.1	15	13	15	17	16	22	22	22	21	11	11
8	7.1	15	13	15	17	17	22	22	22	21	11	11
9	7.1	15	13	21	16	16	22	22	22	21	11	11
10	7.1	15	13	21	16	16	22	22	22	21	11	11
11	7.5	15	13	17	16	15	22	22	22	21	11	11
12	7.5	15	13	19	16	15	22	22	22	21	11	11
13	7.1	15	13	22	17	16	22	22	22	21	11	11
14	7.1	15	13	38	17	16	22	23	22	21	11	10
15	7.5	15	13	23	17	16	22	24	22	21	11	10
16	7.8	15	13	61	17	16	22	24	21	21	11	10
17	7.5	15	13	43	18	16	22	24	21	21	11	10
18	7.1	14	13	28	17	15	22	24	21	21	11	10
19	7.1	14	15	29	16	15	22	24	21	21	11	10
20	7.1	14	22	31	16	15	21	23	21	21	11	10
21	7.1	14	26	88	16	15	21	23	21	21	11	10
22	13	14	17	49	16	15	21	23	21	21	11	10
23	17	14	20	36	16	15	21	23	21	21	11	10
24	17	14	30	40	16	15	21	23	21	21	11	10
25	16	14	26	31	16	15	21	23	21	21	11	10
26	16	14	19	29	16	16	21	23	21	21	11	10
27	16	13	17	40	15	22	21	22	21	18	11	9.7
28	16	13	16	25	16	22	22	22	21	15	11	9.7
29	16	13	16	21	---	22	21	22	21	15	11	9.7
30	16	13	16	20	---	22	22	22	21	15	11	9.7
31	16	---	16	19	---	22	---	22	---	15	11	---
TOTAL	312.8	439	490	872	467	517	651	702	645	624	364	311.8
MEAN	10.1	14.6	15.8	28.1	16.7	16.7	21.7	22.6	21.5	20.1	11.7	10.4
MAX	17	16	30	88	19	22	22	24	22	21	15	11
MIN	7.1	13	13	15	15	15	21	22	21	15	11	9.7
AC-FT	620	871	972	1730	926	1030	1290	1390	1280	1240	722	618
(†)	37340	52320	25480	31080	41510	27810	8030	4870	28830	21920	52220	54420

CAL YR 1969 TOTAL 11258.4 MEAN 30.8 MAX 646 MIN 7.1 AC-FT 22330
WTR YR 1970 TOTAL 6395.6 MEAN 17.5 MAX 88 MIN 7.1 AC-FT 12690

† DIVERSION, IN ACRE-FEET, FROM HELL HOLE RESERVOIR TO MIDDLE FORK POWERPLANT; FURNISHED BY PLACER COUNTY WATER AGENCY.

11429300 ROBBS PEAK POWERPLANT NEAR KYBURZ, CALIF.

(Formerly published as 11-4298. Robbs Peak tunnel near Riverton)

LOCATION.--Lat 38°53'46", long 120°22'40", in SE¼SW¼ sec.11, T.12 N., R.14 E., El Dorado County, Eldorado National Forest, in powerhouse on shore of Union Valley Reservoir, 9.5 miles northwest of Kyburz. Prior to Oct. 1, 1965, at site 0.5 mile upstream.

PERIOD OF RECORD.--October 1962 to September 1970. Prior to October 1965, published as Robbs Peak tunnel near Riverton.

GAGE.--Discharge computed from powerplant output. Altitude of gage is 4,880 ft (from topographic map). Prior to Oct. 1, 1965, water-stage recorder and concrete control in abandoned section of canal 0.5 mile upstream at different datum.

AVERAGE DISCHARGE.--8 years, 237 cfs (171,700 acre-ft per year).

EXTREMES.--Period of record: Maximum daily discharge, 1,440 cfs Dec. 22-24, 1964; no flow for many days in 1965-70.

REMARKS.--Tunnel diverts at South Fork Rubicon River diversion dam in NE¼ sec.27, T.13 N., R.14 E., and discharges into Union Valley Reservoir (see station 11441001). Water is imported from Rubicon River basin via Rubicon-Rockbound tunnel and Buck-Loon tunnel to Loon Lake, thence via Gerle Creek and Robbs Peak tunnel and powerplant to South Fork American River basin for power development. See schematic diagrams of Middle Fork American and Rubicon River basins and South Fork American River basin elsewhere in this report.

COOPERATION.--Records furnished by Sacramento Municipal Utility District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	306	378	378	58	23	734	236	23	354	287	0
2	0	375	378	378	58	55	637	220	39	0	348	0
3	0	340	379	378	58	27	580	275	0	0	353	0
4	0	412	407	378	58	27	567	196	0	0	344	0
5	4.0	409	407	388	58	38	595	259	39	59	358	0
6	22	343	400	391	58	38	591	173	0	343	39	0
7	41	360	392	378	58	38	596	204	31	341	47	0
8	67	406	392	378	18	85	559	188	0	378	378	0
9	51	356	402	378	18	85	552	180	0	39	326	0
10	0	411	407	378	28	85	693	212	39	31	346	0
11	0	415	394	15	31	164	501	202	0	73	277	0
12	42	415	378	15	31	164	330	94	0	162	300	0
13	306	415	388	15	31	164	314	144	78	361	50	0
14	304	456	388	15	31	164	314	118	283	361	62	0
15	302	444	380	15	58	141	399	125	346	361	78	0
16	300	440	378	15	58	141	410	62	378	31	361	0
17	301	467	378	15	58	156	457	118	378	39	354	0
18	300	610	378	15	25	332	398	70	0	39	354	0
19	300	381	378	33	25	491	236	78	0	378	357	63
20	301	378	344	33	25	476	188	102	78	361	31	418
21	263	388	384	33	25	470	212	47	378	361	0	412
22	0	378	378	33	25	463	196	70	378	361	78	400
23	0	378	378	33	25	468	259	39	378	39	361	283
24	0	367	378	33	25	518	228	39	378	0	378	0
25	16	378	382	33	25	534	389	39	378	133	354	0
26	303	378	387	29	62	567	306	47	378	378	361	0
27	305	378	392	29	33	612	299	39	361	354	0	0
28	312	378	372	35	33	577	228	39	378	378	4.0	0
29	310	378	330	36	---	636	212	0	366	369	4.0	0
30	308	378	394	36	---	674	236	39	355	47	0	0
31	307	---	378	36	---	612	---	0	---	23	0	---
TOTAL	4765.0	11918	11879	4355	1096	9025	12216	3654	5440	6154	6590.0	1576
MEAN	153	397	383	140	39.1	291	407	117	181	199	212	52.5
MAX	312	610	407	391	62	674	734	275	378	378	378	418
MIN	0	306	330	15	18	23	188	0	0	0	0	0
AC-FT	9450	23640	23560	8640	2170	17900	24230	7250	10790	12210	13070	3130

CAL YR 1965 TOTAL 109327.50 MEAN 299 MAX 958 MIN 0 AC-FT 216900
WTR YR 1966 TOTAL 78668.00 MEAN 215 MAX 734 MIN 0 AC-FT 156000

11429300 ROBBS PEAK POWERPLANT NEAR KYBURZ, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	385	270	391	140	75	190	759	0	325
2	0	0	0	385	190	418	142	112	0	759	0	325
3	0	0	0	380	147	410	127	135	148	801	0	332
4	0	0	0	400	113	386	142	127	649	880	0	332
5	0	0	0	391	149	385	334	142	850	862	0	323
6	0	0	326	385	114	318	415	172	734	730	0	323
7	30	0	262	385	177	385	398	340	647	763	0	332
8	285	0	60	366	134	385	400	493	835	810	198	323
9	344	0	0	310	135	385	410	544	900	759	410	323
10	340	0	0	16	165	368	410	411	894	708	390	332
11	337	0	0	37	187	75	405	258	886	645	275	332
12	345	0	0	16	173	15	395	218	844	143	370	323
13	360	0	8.0	30	129	90	410	232	918	0	360	323
14	347	0	8.0	75	165	80	410	328	892	0	360	323
15	360	0	60	30	139	88	401	590	942	0	305	323
16	332	0	30	60	110	189	373	802	998	0	390	323
17	348	0	98	16	105	930	368	845	1030	183	355	323
18	345	0	45	37	105	845	360	855	1010	282	375	323
19	360	0	75	37	120	405	385	854	934	265	360	323
20	360	0	45	37	98	326	360	850	898	430	370	323
21	292	0	68	110	105	282	360	985	904	414	370	323
22	8.0	0	75	0	52	338	360	1000	882	442	370	323
23	0	0	372	97	90	342	360	950	860	455	370	323
24	8.0	0	456	0	120	264	360	850	856	435	330	309
25	0	0	380	0	98	220	348	715	860	333	365	330
26	0	0	410	10	90	205	388	595	842	302	365	330
27	0	0	400	228	60	187	330	785	816	356	365	330
28	0	0	407	305	118	208	387	775	818	338	360	330
29	0	125	409	570	---	180	56	688	810	310	360	280
30	0	0	385	615	---	143	105	597	787	341	360	56
31	0	---	382	475	---	135	---	460	---	210	360	---
TOTAL	4801.0	125	4761.0	6188	3658	9378	9839	16783	23634	13715	8493	9443
MEAN	154	4.16	153	199	130	302	327	541	787	442	273	314
MAX	360	125	456	615	270	930	415	1000	1030	880	410	332
MIN	0	0	0	0	52	15	56	75	0	0	0	56
AC-FT	9520	248	9440	12270	7260	18600	19520	33290	46880	27200	16850	18730

CAL YR 1966 TOTAL 59793.00 MEAN 163 MAX 734 MIN 0 AC-FT 118600
WTR YR 1967 TOTAL 110818.00 MEAN 303 MAX 1030 MIN 0 AC-FT 219800

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	378	68	223	353	226	143	332	295	301
2	0	0	0	378	35	205	250	190	184	313	294	278
3	0	0	0	366	94	205	186	220	362	323	281	295
4	0	0	56	362	82	186	180	224	371	336	319	297
5	0	52	0	366	54	205	217	178	307	348	266	279
6	126	0	38	366	64	163	187	142	344	298	296	294
7	0	0	0	350	77	130	182	71	338	278	286	279
8	0	0	0	350	48	104	214	90	353	236	258	291
9	0	0	26	345	83	152	250	133	355	308	287	292
10	0	36	7.1	339	64	111	288	30	355	269	283	267
11	29	0	0	396	73	85	326	79	280	275	306	290
12	0	0	0	304	53	118	289	76	335	253	273	147
13	0	0	9.1	0	73	102	263	101	368	297	289	0
14	0	0	197	0	56	106	260	46	354	278	280	0
15	0	0	453	190	56	99	278	127	333	280	283	0
16	0	50	438	229	55	118	253	137	364	300	284	0
17	0	0	407	110	249	131	163	134	372	304	284	0
18	0	0	403	58	297	92	133	111	330	260	265	0
19	0	0	395	60	287	104	120	130	365	280	390	0
20	0	59	391	54	992	88	120	100	350	288	270	0
21	0	0	368	49	842	108	120	131	345	272	249	0
22	0	0	368	51	501	111	116	82	346	291	293	0
23	93	0	347	63	765	97	101	77	338	286	281	0
24	171	48	393	89	513	129	101	66	345	279	281	0
25	171	0	398	57	306	146	113	77	345	265	299	0
26	171	0	403	49	259	122	224	85	340	276	289	0
27	139	0	413	40	281	122	222	79	279	295	277	0
28	0	0	414	45	267	208	202	85	353	259	278	0
29	0	55	410	45	239	288	229	59	314	259	286	0
30	0	0	397	19	---	335	255	47	354	289	295	0
31	0	---	397	19	---	329	---	73	---	290	281	---
TOTAL	900	302	7128.2	5527	6833	4722	6195	3406	9922	8917	8898	3310
MEAN	29.0	10.0	229	178	235	152	206	109	330	287	287	110
MAX	171	59	453	396	992	335	353	226	372	348	390	301
MIN	0	0	0	0	35	85	101	30	143	236	249	0
AC-FT	1790	599	14140	10960	13550	9370	12290	6760	19680	17690	17650	6570

CAL YR 1967 TOTAL 109461.20 MEAN 300 MAX 1030 MIN 0 AC-FT 217100
WTR YR 1968 TOTAL 66060.20 MEAN 180 MAX 992 MIN 0 AC-FT 131000

11429300 ROBBS PEAK POWERPLANT NEAR KYBURZ, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	27	24	159	205	675	859	903	413	344	348
2	0	0	0	27	145	219	590	807	955	467	355	352
3	0	254	43	31	71	206	395	773	1004	475	345	352
4	0	59	0	52	17	228	394	686	990	455	345	393
5	0	0	45	55	101	338	506	888	1008	543	390	352
6	0	33	33	62	265	335	402	960	1016	373	332	41
7	0	12	0	68	135	330	351	843	833	444	363	0
8	0	0	38	73	100	427	556	934	930	455	346	0
9	0	0	17	38	71	427	508	932	1020	380	361	0
10	0	54	56	43	120	405	594	958	914	377	355	0
11	0	0	83	43	71	396	729	818	789	381	357	0
12	0	51	47	51	56	399	776	711	732	369	357	0
13	0	76	40	99	112	392	757	875	695	378	357	0
14	0	24	10	248	246	399	641	835	794	374	357	0
15	35	7.0	56	179	231	403	504	714	921	369	341	0
16	178	27	49	72	269	401	507	742	1018	371	358	0
17	284	0	35	93	239	420	832	901	1018	368	340	0
18	291	86	34	68	248	463	934	880	1012	368	361	0
19	288	64	26	913	240	488	641	793	986	368	342	0
20	268	34	29	690	240	478	752	729	902	351	362	0
21	267	60	21	581	275	466	867	948	837	370	355	0
22	285	22	31	676	163	459	858	981	765	353	352	0
23	277	1.0	32	375	253	486	755	972	705	367	352	0
24	80	64	32	300	237	494	447	963	687	354	362	0
25	0	9.0	19	748	217	504	682	926	632	372	349	0
26	0	47	43	392	237	540	677	945	678	358	356	0
27	0	38	29	299	214	610	699	957	522	353	341	0
28	0	0	35	287	216	646	855	920	518	363	352	0
29	0	50	33	301	---	463	650	921	478	350	359	0
30	0	19	24	206	---	541	869	943	478	352	342	0
31	0	---	32	194	---	692	---	936	---	369	357	---
TOTAL	2253	1091.0	999	7288	4947	13254	19603	27050	24740	12040	10945	1838
MEAN	72.6	36.3	32.2	235	176	427	653	872	824	388	353	61.2
MAX	291	254	83	913	275	692	934	981	1020	543	390	393
MIN	0	0	0	24	17	205	351	686	478	350	332	0
AC-FT	4470	2160	1980	14460	9810	26290	38880	53650	49070	23880	21710	3650

CAL YR 1968 TOTAL 62073.00 MEAN 169 MAX 992 MIN 0 AC-FT 123100
WTR YR 1969 TOTAL 126048.00 MEAN 345 MAX 1020 MIN 0 AC-FT 250000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	342	329	71	187	501	331	217	334	416	387	
2	0	342	4.5	125	163	523	341	195	488	409	378	
3	0	341	0	365	171	499	356	250	449	411	382	
4	0	339	71	389	171	476	349	260	447	394	373	
5	0	354	341	380	171	470	349	252	425	410	373	
6	0	369	347	376	158	470	377	287	421	407	366	
7	0	349	342	376	151	498	389	208	416	414	352	
8	0	347	340	381	235	498	380	181	435	402	363	
9	0	349	309	515	103	495	376	193	623	406	358	
10	0	350	28	448	12	470	401	304	500	406	361	
11	0	353	0	220	260	459	397	151	473	406	339	
12	0	338	0	268	582	459	376	139	453	406	339	
13	0	342	0	344	557	495	367	126	453	406	332	
14	5.0	361	65	802	540	580	338	199	445	400	269	
15	53	350	0	396	527	582	334	246	454	412	0	
16	380	370	0	509	522	527	355	266	458	401	0	
17	381	353	48	464	530	546	335	280	438	407	0	
18	359	350	11	466	503	508	352	274	438	401	0	
19	344	350	117	433	492	459	365	239	416	404	183	
20	355	349	619	338	480	440	352	205	332	405	10	
21	343	349	453	0	480	351	338	152	314	403	0	
22	352	349	248	0	466	368	330	202	316	409	0	
23	338	349	195	0	480	393	324	202	397	399	0	
24	351	349	547	0	486	415	341	191	402	402	0	
25	340	355	450	0	481	422	337	166	397	404	0	
26	348	349	290	266	495	415	343	195	395	404	0	
27	335	348	212	446	508	381	338	177	393	392	0	
28	352	346	122	353	516	363	319	116	340	411	0	
29	349	349	117	266	---	373	329	135	391	397	0	
30	349	338	117	270	---	386	351	304	417	397	0	
31	361	---	80	213	---	375	---	316	---	397	0	---
TOTAL	5695.0	10479	5802.5	9480	10427	14197	10570	6628	12660	12538	5165	0
MEAN	183	349	187	305	372	457	352	213	422	404	166	0
MAX	381	370	619	802	582	582	401	316	623	416	387	0
MIN	0	338	0	0	12	351	319	116	314	392	0	0
AC-FT	11300	20790	11510	18800	20680	28160	20970	13150	25110	24870	10240	0

CAL YR 1969 TOTAL 143685.50 MEAN 393 MAX 1020 MIN 0 AC-FT 285000
WTR YR 1970 TOTAL 103641.50 MEAN 283 MAX 802 MIN 0 AC-FT 205600

11429350 LOON LAKE NEAR MEEKS BAY, CALIF.

LOCATION.--Lat 39°00'17", long 120°18'30", in SW¼NW¼ sec.4, T.13 N., R.15 E., El Dorado County, Eldorado National Forest, on right bank at Loon Lake Dam on Gerle Creek, 2.3 miles upstream from Jerrett Creek and 11 miles southwest of town of Meeks Bay.

DRAINAGE AREA.--7.94 sq mi.

PERIOD OF RECORD.--December 1963 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Sacramento Municipal Utility District).

EXTREMES.--Maximums and minimums (contents in acre-feet, elevation in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum		
Wtr yr	Date	Contents	Elevation	Date	Contents	Elevation
1966	Oct. 1, 1965	68,900	6,404.8	Mar. 30, 31, 1966	12,900	-
1967	July 6, 7, 1967	77,600	6,411.0	Nov. 12-14, 1966	7,660	6,341.1
1968	June 3, 4, 1968	72,800	6,407.6	Jan. 12, 13, 1968	8,760	6,343.4
1969	June 6, 1969	77,700	6,411.1	Oct. 28-31, 1968	10,000	6,345.9
1970	June 10, 1970	45,200	6,386.0	Sept.30, 1970	4,500	6,333.0

Period of record: Maximum contents, 77,700 acre-ft June 6, 1969 (elevation, 6,411.1 ft); minimum since reservoir first filled, 4,500 acre-ft Sept. 30, 1970 (elevation, 6,333.0 ft).

REMARKS.--Reservoir is formed by an earthfill dam completed Dec. 27, 1963. Storage began Dec. 5, 1963. Usable capacity, 74,100 acre-ft between elevations 6,325 (invert of fishwater release valve) and 6,410 ft (crest of spillway) above mean sea level. Dead storage, 2,360 acre-ft. Prior to September 1962, reservoir was formed by granite-block dam built in 1884, capacity, 8,000 acre-ft. Records, including extremes, represent total contents. See schematic diagram of Middle Fork American and Rubicon River basins elsewhere in this report.

Capacity table, water years 1966-70 (elevation, in feet, and contents, in acre-feet)

6,330	3,600	6,360	19,600	6,390	50,000
6,340	7,200	6,370	28,500	6,412	79,000
6,350	12,500				

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68900	57500	40100	20200	15700	16600	13200	33600	61800	55400	40400	25700
2	68800	56700	39500	19400	15700	16600	13800	34800	62100	55400	39700	25700
3	68800	55800	38900	18900	15700	16700	14200	36000	62300	55400	38800	25700
4	68700	55000	38300	18400	15700	16700	14700	37100	62400	55400	38100	25700
5	68700	54200	37600	17800	15900	16800	15100	38500	62700	54800	37500	25600
6	68600	53300	37100	17100	16000	16800	15600	39700	62800	53900	37400	25600
7	68300	52400	36400	16600	16100	16900	16300	40900	63100	53200	37000	25500
8	68200	51500	35700	15800	16100	17000	17100	42100	63400	52600	36200	25500
9	68000	50600	35100	15200	16100	17100	17700	43400	63600	52500	35300	25500
10	68000	49800	34400	15000	16100	17400	18400	44600	63900	52400	34600	25400
11	68000	48900	33700	15000	16200	17600	18800	45800	64300	51800	33700	25300
12	67800	48100	33000	15100	16200	18000	19300	46800	64500	51000	33200	25300
13	67200	47200	32400	15100	16200	18400	19700	47600	64400	50300	33000	25200
14	66600	46800	31800	15100	16200	18800	20000	48600	64000	49400	32900	25200
15	66000	46200	31100	15100	16200	19200	20400	49400	63500	48900	32400	25200
16	65300	45600	30400	15100	16200	19600	21200	50400	63100	48800	31700	25200
17	64800	45300	29700	15100	16200	19300	22200	51300	62800	48700	30800	25200
18	64000	45900	29100	15200	16200	18700	23100	52000	63100	48100	30000	24900
19	63400	45900	28400	15200	16300	18100	23700	52900	63200	47400	29600	24000
20	62700	45400	27700	15300	16300	17400	24200	53900	63000	46500	29500	23200
21	62300	45000	27100	15300	16400	16800	24600	54900	62300	45800	29300	22400
22	62400	44400	26200	15300	16400	16200	25200	55800	61700	45200	28800	21600
23	62400	44000	25600	15300	16400	15600	25700	56700	61000	45100	28000	20900
24	62400	43700	24900	15300	16500	15000	26600	57300	60400	45000	27200	20900
25	62200	43200	24400	15400	16500	14500	27600	58100	59800	44400	26400	20900
26	61500	42800	23600	15400	16600	14000	29000	58900	59000	43700	25900	20900
27	60900	42300	23000	15400	16600	13600	30100	59500	58200	42900	25900	20900
28	60300	41700	22500	15400	16600	13300	31000	60100	57500	42100	25900	20800
29	59500	41200	22000	15400	---	13100	31900	60800	56700	41600	25800	20800
30	58900	40700	21400	15600	---	12900	32700	61300	55900	41400	25700	20700
31	58100	---	20900	15600	---	12900	---	61500	---	41200	25700	---
MAX	68900	57500	40100	20200	16600	19600	32700	61500	64500	55400	40400	25700
MIN	58100	40700	20900	15000	15700	12900	13200	33600	55900	41200	25700	20700
(†)	6396.4	6381.9	6361.5	6355.1	6356.4		6374.4	6399.1	6394.7	6382.4	6367.0	6361.3
(‡)	-10800	-17400	-19800	-5300	+1000	-3700	+19800	+28800	-5600	-14700	-15500	-5000

CAL YR 1965 MAX 77300 MIN 15000 ‡ -12100
WTR YR 1966 MAX 68900 MIN 12900 ‡ -48200

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11429350 LOON LAKE NEAR MEEKS BAY, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20700	7840	14800	13500	13400	15300	23200	11100	51300	76500	71400	53800
2	20700	7840	15400	12900	13600	14800	23400	11200	51900	76800	71600	53000
3	20500	7800	16000	12100	13700	14400	23500	11400	52500	76900	71700	52300
4	20200	7800	16500	11400	13800	13900	23400	11600	53500	77000	72000	51500
5	19800	7750	17200	10000	13900	13500	22900	11800	54900	77300	72100	50800
6	19400	7750	18000	9580	14000	13000	22400	12100	56200	77600	72100	49800
7	19000	7750	18600	9040	14100	12500	21900	12700	57300	77600	72000	49000
8	18200	7750	18900	8260	14200	12000	21400	13600	58500	77500	71300	48200
9	17400	7750	19300	7940	14300	11500	20800	14800	59500	77500	70500	47400
10	16600	7710	19500	7980	14400	11400	20300	15600	60500	77300	69800	46600
11	15600	7710	19800	8030	14500	11700	19800	16100	61800	77300	68900	45800
12	14900	7660	19900	8070	14600	11900	19200	16500	63000	77300	68300	45000
13	14200	7660	20100	8170	14700	12200	18500	16800	64000	77300	67600	44100
14	13500	7660	20300	8260	14900	12300	18000	17300	64800	77300	67000	43500
15	12700	7710	20400	8300	15000	12600	17600	18200	66000	77300	66200	42700
16	12000	7840	20500	8400	15100	14300	17000	19600	66900	77200	65400	42100
17	11100	7980	20600	8490	15200	17400	16500	21400	67800	77000	64800	41500
18	10300	8120	20700	8580	15300	18700	16000	23200	68600	77000	64000	40900
19	9360	8400	20900	8630	15300	19700	15400	25100	69300	76900	63400	40200
20	8490	8900	20900	8860	15400	20300	15000	27200	70200	76500	62700	39500
21	8120	9410	21000	9220	15500	20700	14500	29700	70900	76100	61900	38700
22	8070	9680	20900	9360	15600	21100	14100	32000	71600	75400	61200	38100
23	8070	9860	19900	9450	15700	21400	13600	34300	72300	74800	60500	37300
24	8070	9980	19300	9740	15700	21700	13100	36700	72800	74400	59800	36600
25	8030	10000	18500	9920	15800	22000	12500	39100	73500	74000	59000	35800
26	8030	10100	17600	10200	15800	22100	11700	41400	74100	73700	58200	35000
27	7980	10200	16800	10600	15800	22300	11100	43600	74700	73100	57600	34300
28	7980	10900	16100	11100	15700	22500	10800	45600	75100	72700	56800	33500
29	7940	13200	15400	11900	---	22700	10800	47500	75600	72400	56000	33000
30	7940	14300	14800	12700	---	22900	10900	49000	76100	72000	55400	33000
31	7890	---	14100	13200	---	23000	---	50500	---	71600	54500	---
MAX	20700	14300	21000	13500	15800	23000	23500	50500	76100	77600	72100	53800
MIN	7890	7660	14100	7940	13400	11400	10800	11100	51300	71600	54500	33000
(†)	6341.5	6353.0	6352.7	6351.1	6355.3		6347.4	6390.4	6409.9	6406.7	6393.6	6374.7
(‡)	-12810	+6410	-200	-900	+2500	+7300	-12100	+39600	+25600	-4500	-17100	-21500

CAL YR 1966 MAX 77600 MIN 7660 ‡ -6800
WTR YR 1967 MAX 77600 MIN 7660 ‡ +12300

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33000	31400	31600	16200	12600	27600	34200	50300	72600	60500	40500	21400
2	33100	31400	31600	15400	12700	27900	34700	51400	72700	59800	39900	20700
3	33100	31400	31600	14900	13000	28300	35100	52500	72800	59100	39200	20100
4	33300	31300	31700	14200	13100	28500	35400	53500	72800	58300	38500	19400
5	33400	31300	31800	13500	13200	28800	35700	54700	72600	57700	37900	18800
6	33500	31300	31900	12900	13300	29000	36000	55400	72300	57100	37200	18100
7	33600	31300	32000	12100	13300	29300	36300	56000	71900	56400	36600	17500
8	33600	31200	32100	11400	13400	29600	36600	56700	71400	55800	36000	16800
9	33600	31200	32100	10600	13500	29700	37000	57500	71200	55200	35200	16100
10	33700	31200	32100	9860	13500	29800	37600	58300	70700	54500	34600	15400
11	33700	31200	32100	9090	13600	30000	38400	59000	70300	53800	33900	15100
12	33700	31100	32100	8760	13600	30100	39500	59800	70000	53200	33200	15100
13	33700	31100	31600	8760	13700	30400	40300	60300	69800	52500	32600	15100
14	33600	31200	30900	8860	13700	30500	41000	60800	69300	51900	32100	15000
15	33600	31200	30200	9450	13800	30600	41400	61300	69100	51300	31400	15000
16	33600	31200	29500	10300	13800	30800	41700	61800	68700	50600	30800	15000
17	33500	31200	28700	10900	14100	31000	42100	62100	68400	50000	30100	15000
18	33500	31200	27900	11200	14500	31100	42400	62800	68000	49400	29600	15100
19	33500	31200	27100	11300	15100	31200	42800	63600	67600	48800	29200	15100
20	33500	31300	26200	11400	17800	31300	43000	64500	67100	48200	28600	15100
21	33400	31300	25500	11500	20300	31400	43500	65600	66700	47500	28100	15100
22	33200	31400	24600	11600	21600	31500	43700	66300	66200	46900	27600	15100
23	32800	31400	23600	11700	23000	31600	44000	66900	65800	46200	27000	15100
24	32500	31400	22800	11700	24600	31700	44400	67200	65200	45600	26400	15000
25	32100	31400	22000	11800	25400	31800	44800	67600	64800	45000	25900	15000
26	31800	31400	21100	12000	26000	31900	45600	68300	64100	44200	25200	15000
27	31600	31400	20300	12000	26400	32100	46300	68900	63500	43600	24600	15000
28	31600	31400	19400	12100	26900	32200	47100	69600	62700	43000	23900	14900
29	31500	31400	18600	12300	27300	32500	48100	70600	61900	42400	23300	14900
30	31500	31500	17800	12500	---	32900	49300	71400	61300	41700	22600	14900
31	31400	---	17000	12600	---	33500	---	72000	---	41100	22000	---
MAX	33700	31500	32100	16200	27300	33500	49300	72000	72800	60500	40500	21400
MIN	31400	31100	17000	8760	12600	27600	34200	50300	61300	41100	22000	14900
(†)	6373.0	6373.1		6350.1	6368.7		6389.4	6407.0	6398.9	6382.3	6362.8	6354.0
(‡)	+1600	+100	-14500	-4400	+14700	+6200	+15800	+22700	-10700	-20200	-19100	-7100

CAL YR 1967 MAX 77600 MIN 7940 ‡ +2900
WTR YR 1968 MAX 72800 MIN 8760 ‡ -18100

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11429350 LOON LAKE NEAR MEEKS BAY, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14800	10100	20600	24200	37200	36000	19500	26600	76800	75500	66300	43500
2	14800	10300	20700	24300	37300	35600	19800	27300	77300	75400	65800	42800
3	14800	12700	20800	24400	37500	35500	20100	27700	77600	75200	65200	42100
4	14800	13600	20900	24500	37500	35100	20400	27800	77600	75100	64500	41400
5	14800	14000	20900	24600	37900	34700	20700	28300	77600	74800	63900	41000
6	14700	14200	21000	24600	38100	34000	21000	29700	77700	74500	63400	41000
7	14700	14400	21000	24700	38200	33500	20900	31700	77600	74100	62700	41000
8	14700	14400	21100	24800	38300	32700	20900	33700	77500	74000	62100	41000
9	14700	14600	21200	24900	38400	32100	20400	36200	77200	74000	61300	41000
10	14700	14800	21400	25000	38400	31400	19800	38800	76800	74000	60500	40900
11	14600	15000	21400	24200	38600	30700	19400	41400	76600	73800	59800	40900
12	14600	15700	21600	24300	38600	30000	19500	43800	76600	73700	59000	40900
13	14700	16000	21800	25700	38500	29300	19700	46000	76900	73500	58200	40900
14	14700	16500	22000	26000	38400	28500	19700	48300	77200	73400	57500	40900
15	14400	16700	22000	26200	38400	27700	19600	50500	77600	73300	56700	41000
16	13800	16900	22200	26300	38200	27100	19300	52300	77600	73100	55900	41100
17	13300	17100	22300	26400	38000	26300	18900	54400	77600	72800	55300	41100
18	12700	17600	22500	26700	37800	25500	19200	56600	77500	72700	54400	41000
19	12200	18500	22500	28000	37400	24600	19900	58700	77300	72300	53700	41000
20	11600	18900	22600	30500	37200	23800	20500	60400	77300	72000	52900	41000
21	11000	19100	22700	32100	37000	23100	21600	61500	77200	71600	52100	40900
22	10400	19300	22900	32800	36800	22400	23000	62800	77000	71300	51400	40900
23	10100	19600	23000	33200	36700	21700	24600	64500	77000	70900	50500	40900
24	10100	19900	23200	33600	36600	21000	25100	66200	77000	70500	49800	40900
25	10100	20000	23500	34400	36600	20300	24900	67600	76900	70000	48900	40900
26	10100	20100	23600	35300	36500	19600	24500	69100	76600	69600	48100	40800
27	10100	20300	23700	35800	36500	19000	24100	70500	76500	69100	47400	40800
28	10000	20400	23800	36300	36200	18700	24100	71900	76200	68600	46500	40800
29	10000	20400	24000	36600	---	18700	24700	73000	75900	68000	45700	40700
30	10000	20500	24100	36700	---	18800	25700	74200	75600	67500	45000	40700
31	10000	---	24200	36900	---	19100	---	75400	---	67000	44100	---
MAX	14800	20500	24200	36900	38600	36000	25700	75400	77700	75500	66300	43500
MIN	10000	10100	20600	24200	36200	18700	18900	26600	75600	67000	44100	40700
(†)	6345.9	6361.1	6365.4		6377.7		6367.0	6409.4	6409.6	6403.3	6385.1	6381.9
(‡)	-4900	+10500	+3700	+12700	-700	-17100	+6600	+49700	+200	-8600	-22900	-3400

CAL YR 1968 MAX 72800 MIN 8760 ‡ +7200
WTR YR 1969 MAX 77700 MIN 10000 ‡ +27900

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40500	29700	9620	18400	40000	28300	12600	7340	41500	41700	---	5040
2	40500	28900	9680	18000	40200	27600	12300	7940	41900	41000	---	5010
3	40400	28300	9680	17300	40300	26800	12100	8950	42500	40500	---	5010
4	40300	27400	9220	16600	40400	26100	11800	10100	42900	40000	---	4980
5	40300	26800	8400	15800	40500	25400	11800	11400	43200	39500	---	4950
6	40300	25300	7430	15100	40800	24700	11800	12600	43600	38900	---	4890
7	40300	24700	6570	14600	40900	23900	11800	13500	43700	38500	---	4860
8	40200	24200	5690	14100	41000	23100	11800	14200	44000	37600	---	4860
9	40200	23600	5270	14100	41200	22300	11800	15000	44800	37000	---	4830
10	40100	23000	5270	14400	41300	21500	11900	16000	45200	36100	---	4800
11	40100	22400	5310	15100	41100	20800	12000	16700	45000	35100	8120	4770
12	40100	21900	5350	15800	40400	20100	12100	17200	44600	34100	---	4740
13	40000	21400	5350	16500	39900	19400	12000	17700	44100	33200	---	4710
14	40000	20900	5390	17200	39200	18700	11900	18600	43700	32300	5560	4680
15	39900	20200	5390	17900	38200	18100	11700	19900	43200	31600	---	4650
16	39800	19600	5390	18600	37600	17600	11400	21400	42700	30800	---	4620
17	39800	19000	5390	21300	36900	17000	11100	23100	42200	30000	---	4620
18	39400	18400	5440	22600	36200	16300	10700	25100	41900	29200	---	4590
19	38900	17600	5810	22500	35400	15600	10400	26900	41900	28200	5440	4560
20	38000	16900	8810	24900	34600	15200	10000	28200	42300	27400	5390	4650
21	37200	16200	12300	29000	33800	14900	9680	29500	42700	26700	5390	4680
22	36700	15400	13900	33400	33000	14700	9320	30700	42900	25700	5350	4680
23	36100	14800	14700	35800	32300	14400	8950	32100	43000	25000	5310	4680
24	35400	14200	15500	37100	31600	14300	8580	33300	43000	23600	5270	4650
25	34700	13600	16800	37800	30900	14200	8260	34800	42900	22700	5270	4620
26	34000	13000	17400	38500	30100	14100	7890	36300	42700	21800	5230	4590
27	33300	12300	17700	38900	29500	13900	7570	37900	43100	20800	5180	4590
28	32500	11600	17900	39100	28800	13800	7250	38900	43100	19900	5140	4560
29	32000	10800	18100	39500	---	13600	6950	39800	42800	19700	5140	4530
30	31200	10100	18200	39700	---	13100	6950	40400	42300	17300	5100	4500
31	30400	---	18300	39900	---	12800	---	41100	---	17100	5070	---
MAX	40500	29700	18300	39900	41300	28300	12600	41100	45200	41700		5040
MIN	30400	10100	5270	14100	28800	12800	6950	7340	41500	17100		4500
(†)	6372.0	6346.0	6358.4	6381.2	6370.3	6350.5	6399.4	6382.3	6383.4	6357.0	6344.9	6333.0
(‡)	-10300	-20300	+8200	+21600	-11100	-16000	-5850	+34200	+1200	-25200	-12030	-570

CAL YR 1969 MAX 77700 MIN 5270 ‡ -5900
WTR YR 1970 MAX 45200 MIN 4500 ‡ -36200

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11429500 GERLE CREEK BELOW LOON LAKE DAM, NEAR MEEKS BAY, CALIF.

LOCATION.--Lat 39°00'20", long 120°18'52", in NE¼ sec.5, T.13 N., R.15 E., El Dorado County, Eldorado National Forest, on right bank 0.3 mile downstream from Loon Lake Dam and 11 miles southwest of Meeks Bay.

DRAINAGE AREA.--8.01 sq mi.

PERIOD OF RECORD.--July 1910 to April 1914 (fragmentary, published as "near Rubicon Springs"), August 1962 to September 1970.

GAGE.--Water-stage recorder and V-notch sharp-crested weir. Altitude of gage is 6,250 ft (from topographic map). Prior to August 1962, nonrecording gage at site about 1,400 ft upstream at different datum.

AVERAGE DISCHARGE.--9 years (1911, 1962-70), 132 cfs (95,630 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Sept.18, 1966	422	6.16	May 17, 1966	7.9
1967	July 5, 1967	839	7.93	Jan. 10, 11, Sept. 30, 1967	7.9
1968	Dec. 13, 1967	470	6.40	Jan. 13, 17, 18, 1968	7.2
1969	June 5, 1969	1,050	9.03	Jan. 2-5, 1969	7.4
1970	June 8, 1970	477	6.45	Dec. 2, 3, 1969	6.0

Period of record: Maximum discharge, 3,240 cfs (unregulated) Feb. 1, 1963 (gage height, 12.65 ft), from rating curve extended above 600 cfs on basis of slope-area measurement of peak flow; no flow Oct. 15, 1913. Maximum discharge since construction of Loon Lake Dam in 1963, 1,050 cfs June 5, 1969 (gage height, 9.03 ft); minimum daily, 6.0 cfs Dec. 2, 3, 1969.

REMARKS.--Records excellent. Beginning in 1884, flow regulated by Loon Lake (see station 11429350). Original dam was dismantled during September and October 1962 to permit construction of a new earthfill dam which was completed Dec. 27, 1963. Storage began Dec. 5, 1963. Loon Lake receives water from Rubicon River via Rubicon-Rockbound tunnel to Buck Island Lake and from Buck Island Lake to Loon Lake via Buck-Loon tunnel (see stations 11427940, 11428300). See schematic diagram of Middle Fork American and Rubicon River basins elsewhere in this report.

REVISIONS.--WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.3	326	312	336	12	12	242	18	9.0	174	368	9.3
2	9.3	372	312	333	12	12	175	18	9.0	8.5	368	9.5
3	9.3	408	334	332	12	12	180	18	9.0	8.5	369	9.5
4	9.3	404	351	328	12	12	181	18	9.0	8.5	369	9.5
5	20	400	350	327	12	13	182	18	9.0	269	225	9.5
6	37	396	348	324	12	13	185	18	9.0	375	52	9.5
7	63	396	346	321	12	13	186	18	9.0	372	209	9.5
8	79	394	350	316	12	13	186	18	9.5	220	370	9.5
9	39	398	352	314	12	13	187	19	9.0	50	370	9.5
10	9.0	406	351	162	12	14	188	17	9.0	50	369	9.5
11	9.0	408	350	12	12	13	94	14	9.0	298	368	9.5
12	183	404	348	12	12	13	14	14	9.0	366	221	9.5
13	326	402	346	12	12	13	14	12	206	368	59	9.5
14	324	402	344	12	12	13	64	9.8	369	369	58	9.5
15	322	398	342	12	12	13	65	9.8	370	224	249	9.5
16	321	396	342	12	12	13	17	8.5	369	60	370	9.5
17	321	356	342	12	12	204	17	7.9	195	60	369	9.5
18	320	266	342	12	12	366	16	8.2	9.0	249	368	161
19	320	261	340	12	12	363	16	8.2	9.0	366	217	418
20	320	321	339	12	12	360	16	8.2	251	369	49	414
21	184	320	348	12	12	357	17	8.2	370	372	48	408
22	9.5	318	352	12	12	354	17	8.5	368	223	231	376
23	9.5	318	350	12	12	350	17	8.5	366	53	369	168
24	9.5	318	350	12	12	346	17	8.5	364	53	369	11
25	111	316	348	12	12	344	18	8.5	364	248	366	11
26	322	316	345	12	12	342	18	8.5	363	370	203	11
27	324	316	344	12	12	340	17	8.7	363	370	8.7	10
28	332	316	340	12	12	339	17	8.7	370	370	8.7	10
29	330	315	339	12	---	339	18	8.7	374	224	8.7	9.8
30	328	314	339	12	---	339	18	8.7	372	58	9.0	9.8
31	327	---	338	12	---	338	---	9.0	---	158	9.0	---
TOTAL	5336.7	10681	10634	3345	336	5286	2399	375.1	5560.5	6763.5	7027.1	2178.9
MEAN	172	356	343	108	12.0	171	80.0	12.1	185	218	227	72.6
MAX	332	408	352	336	12	366	242	19	374	375	370	418
MIN	9.0	261	312	12	12	12	14	7.9	9.0	8.5	8.7	9.3
AC-FT	10590	21190	21090	6630	666	10480	4760	744	11030	13420	13940	4320

CAL YR 1965 TOTAL 64890.5 MEAN 178 MAX 626 MIN 7.0 AC-FT 128700
WTR YR 1966 TOTAL 59922.8 MEAN 164 MAX 418 MIN 7.9 AC-FT 118900

11429500 GERLE CREEK BELOW LOON LAKE DAM, NEAR MEEKS BAY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	8.2	10	363	9.5	297	11	9.5	14	480	171	356
2	9.8	8.2	11	360	9.5	296	11	9.8	14	524	13	358
3	57	8.2	10	366	9.5	292	11	9.8	15	675	12	358
4	141	8.2	9.8	370	9.5	290	150	9.8	15	806	10	358
5	173	8.2	11	366	9.5	288	312	9.8	16	613	10	354
6	140	8.2	12	362	9.3	286	310	10	15	665	9.5	354
7	185	8.2	10	356	9.3	284	309	11	119	712	165	354
8	362	8.2	10	350	9.3	280	308	11	302	675	352	354
9	358	8.2	10	155	9.3	278	306	11	350	635	356	354
10	370	8.2	10	7.9	9.3	136	304	11	350	578	357	352
11	376	8.2	10	7.9	9.3	9.0	303	11	351	520	356	356
12	374	8.2	10	8.2	9.3	9.3	302	11	352	488	356	357
13	374	8.2	10	8.2	9.5	9.3	300	11	354	504	356	358
14	374	8.2	10	8.2	9.5	9.3	297	12	414	526	357	358
15	372	8.7	10	8.2	9.5	9.5	297	12	456	482	356	356
16	368	9.8	10	8.2	9.5	17	296	13	456	426	356	354
17	378	8.5	10	8.2	9.3	12	292	13	458	380	354	352
18	386	8.5	10	8.2	9.3	11	291	13	460	309	354	354
19	378	8.7	10	8.2	9.5	11	290	14	462	390	352	356
20	370	9.0	10	8.2	9.5	11	288	15	464	458	352	356
21	157	8.7	10	8.5	9.3	10	285	15	464	470	354	357
22	8.2	8.7	155	8.5	9.3	11	282	15	464	522	357	357
23	8.2	8.7	404	8.5	9.3	11	280	15	464	522	352	356
24	8.2	8.7	400	8.7	9.3	10	278	16	466	424	352	354
25	8.2	8.7	396	8.7	9.5	10	310	15	468	357	352	354
26	8.2	8.5	388	9.0	9.5	10	348	15	470	357	352	356
27	8.2	8.5	384	9.5	9.5	10	344	15	470	357	352	356
28	8.2	11	380	9.3	148	11	176	15	470	357	352	357
29	8.2	10	375	10	---	11	9.8	15	470	356	354	191
30	8.2	9.5	372	10	---	10	9.5	15	474	356	357	7.9
31	8.2	---	369	9.8	---	11	---	14	---	356	354	---
TOTAL	5794.6	259.0	3836.8	3238.1	401.9	2950.4	7310.3	392.7	10117	15280	8892.5	10154.9
MEAN	187	8.63	124	104	14.4	95.2	244	12.7	337	493	287	338
MAX	386	11	404	370	148	297	348	16	474	806	357	358
MIN	8.2	8.2	9.8	7.9	9.3	9.0	9.5	9.5	14	309	9.5	7.9
AC-FT	11490	514	7610	6420	797	5850	14500	779	20070	30310	17640	20140

CAL YR 1966 TOTAL 43161.5 MEAN 118 MAX 418 MIN 7.9 AC-FT 85610
WTR YR 1967 TOTAL 68628.2 MEAN 188 MAX 806 MIN 7.9 AC-FT 136100

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	7.9	7.9	370	7.9	9.8	11	11	129	357	303	304
2	8.7	7.9	7.9	368	8.2	9.8	10	11	265	357	302	302
3	8.2	7.9	7.9	363	8.5	9.8	10	9.5	336	357	302	304
4	7.9	7.9	7.9	360	8.2	9.8	10	8.5	338	356	300	306
5	7.9	7.9	7.9	360	8.2	9.5	10	8.2	338	332	300	303
6	7.9	7.9	7.9	357	8.2	9.5	10	8.2	338	310	298	302
7	7.9	7.9	7.9	351	8.2	9.3	10	8.2	336	309	304	298
8	7.9	7.9	7.9	346	8.2	9.3	11	8.2	336	309	308	297
9	7.9	7.9	7.9	342	8.2	9.3	11	8.2	336	308	304	294
10	7.9	7.9	7.9	338	8.2	9.3	11	8.5	336	308	304	302
11	7.9	7.9	7.9	333	8.2	9.3	11	8.5	334	308	303	172
12	7.9	7.9	7.9	133	8.2	9.3	11	8.5	348	306	302	9.0
13	7.9	7.9	231	7.2	8.5	9.3	11	8.5	358	304	300	9.8
14	7.9	7.9	370	7.4	8.5	9.3	11	8.7	358	304	300	9.8
15	7.9	7.9	406	9.5	8.5	9.3	11	8.5	358	304	298	9.8
16	7.9	7.9	436	7.4	8.5	9.3	10	8.5	358	304	298	9.8
17	7.9	7.9	434	7.2	9.5	9.3	10	8.5	358	302	300	9.3
18	7.9	8.2	430	7.2	9.0	9.3	10	8.5	357	303	298	9.0
19	7.9	8.5	428	7.4	10	9.3	10	8.5	357	304	297	9.5
20	7.9	8.2	424	7.4	12	9.5	10	8.5	358	303	294	9.3
21	7.9	7.9	420	7.4	11	9.5	10	8.5	358	302	296	9.3
22	100	7.9	416	7.4	10	9.5	10	8.5	358	302	298	9.3
23	191	7.9	412	7.4	12	9.8	10	8.5	357	300	298	8.5
24	154	7.9	402	7.4	10	9.8	10	8.5	358	300	298	8.5
25	154	7.9	398	7.4	9.8	9.8	10	8.5	358	298	297	9.0
26	167	7.7	394	7.7	9.8	9.8	11	8.5	357	302	298	9.0
27	98	7.9	388	7.7	9.8	9.8	11	8.5	358	303	302	9.0
28	7.7	7.9	384	7.7	9.8	10	11	8.7	358	302	304	9.0
29	7.7	7.9	381	7.9	9.8	10	11	8.7	358	302	303	9.0
30	7.4	7.9	378	7.9	---	10	11	8.7	357	300	304	9.0
31	7.7	---	375	7.9	---	10	---	66	---	302	306	---
TOTAL	1061.5	238.0	7601.8	4165.5	264.9	296.6	314	326.3	10209	9658	9319	3358.9
MEAN	34.2	7.93	245	134	9.13	9.57	10.5	10.5	340	312	301	112
MAX	191	8.5	436	370	12	10	11	66	358	357	308	306
MIN	7.4	7.7	7.9	7.2	7.9	9.3	10	8.2	129	298	294	8.5
AC-FT	2110	472	15080	8260	525	588	623	647	20250	19160	18480	6660

CAL YR 1967 TOTAL 67639.1 MEAN 185 MAX 806 MIN 7.4 AC-FT 134200
WTR YR 1968 TOTAL 46813.5 MEAN 128 MAX 436 MIN 7.2 AC-FT 92850

11429500 GERLE CREEK BELOW LOON LAKE DAM, NEAR MEEKS BAY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	7.9	9.0	7.9	10	147	124	181	479	422	350	351
2	9.0	9.3	9.0	7.9	10	147	125	221	745	463	350	354
3	9.0	11	8.7	7.4	11	147	126	262	952	463	348	354
4	9.3	9.0	8.7	7.4	11	194	126	260	1020	464	346	354
5	9.0	8.7	8.7	7.4	11	264	126	260	1030	464	346	165
6	9.0	8.5	8.7	7.7	11	264	126	101	1010	464	350	7.9
7	9.0	8.7	8.7	7.7	11	297	247	12	990	464	351	7.9
8	9.0	8.7	9.0	7.7	11	368	367	12	952	401	352	7.9
9	9.0	8.7	9.0	7.9	11	368	364	13	830	351	352	7.9
10	9.0	8.7	9.3	7.9	11	366	362	13	676	350	351	7.9
11	9.0	9.3	9.3	7.9	11	364	299	13	585	350	350	8.2
12	9.3	9.3	9.0	7.7	29	362	243	13	524	350	351	8.2
13	9.5	9.0	9.0	8.2	96	360	243	13	526	350	351	8.2
14	22	8.2	9.0	8.2	148	358	242	13	642	350	352	8.2
15	185	8.2	9.0	8.2	148	357	240	13	828	350	352	8.2
16	296	8.5	9.3	7.9	148	354	319	62	975	350	351	8.2
17	292	8.5	9.3	7.9	148	378	383	104	960	350	350	8.2
18	292	9.5	9.3	8.5	148	402	233	104	858	350	352	8.2
19	290	9.0	9.3	13	148	398	106	105	783	350	354	8.2
20	285	8.7	9.3	16	147	394	108	195	732	350	354	8.2
21	291	8.7	9.0	12	147	392	65	393	692	348	354	8.2
22	294	8.7	9.0	9.8	147	388	11	392	648	346	352	7.9
23	128	8.7	9.3	9.5	147	386	10	312	627	345	351	7.9
24	7.7	8.7	9.5	9.5	147	384	173	316	615	350	351	7.9
25	7.7	8.7	9.5	12	147	382	383	392	587	351	352	7.9
26	7.7	8.7	9.5	12	147	381	382	410	540	351	352	7.9
27	7.7	8.7	8.7	10	147	376	382	454	486	351	352	7.9
28	7.7	8.7	8.2	10	147	243	281	455	452	351	354	7.9
29	7.9	8.7	8.2	10	---	121	178	457	450	351	354	7.9
30	7.9	8.7	7.9	10	---	122	179	459	450	351	352	7.9
31	7.9	---	7.9	10	---	123	---	463	---	351	350	---
TOTAL	2555.3	264.4	277.3	285.2	2455	9587	6553	6473	21644	11652	10887	1778.8
MEAN	82.4	8.81	8.95	9.20	87.7	309	218	209	721	376	351	59.3
MAX	296	11	9.5	16	148	402	383	463	1030	464	354	354
MIN	7.7	7.9	7.9	7.4	10	121	10	12	450	345	346	7.9
AC-FT	5070	524	550	566	4870	19020	13000	12840	42930	23110	21590	3530

CAL YR 1968 TOTAL 41009.2 MEAN 112 MAX 370 MIN 7.2 AC-FT 81340
WTR YR 1969 TOTAL 74412.0 MEAN 204 MAX 1030 MIN 7.4 AC-FT 147600

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	352	204	7.9	10	418	255	11	321	454	436	8.5
2	7.9	352	6.0	188	10	416	254	11	403	450	428	8.5
3	7.9	352	6.0	339	10	418	252	12	401	448	425	8.2
4	7.9	352	187	338	10	414	250	12	405	446	419	8.5
5	7.9	350	342	333	9.8	414	250	12	405	446	410	8.5
6	7.9	350	336	332	8.2	414	249	12	407	450	403	8.5
7	7.9	352	327	332	7.9	419	249	13	407	454	398	8.2
8	7.9	350	327	330	7.9	414	249	14	434	448	389	8.2
9	7.9	346	159	160	7.9	410	250	14	459	448	382	8.5
10	7.9	348	6.2	9.2	7.9	409	250	14	461	450	376	8.5
11	7.9	350	6.2	8.5	173	400	250	13	461	450	367	8.2
12	7.9	352	6.5	8.7	409	400	250	13	461	448	358	8.2
13	7.9	356	6.7	8.7	412	396	250	14	457	450	350	8.2
14	8.2	352	6.2	9.8	414	394	249	14	457	455	121	8.5
15	174	348	6.5	9.8	416	392	248	14	455	450	10	8.2
16	351	348	6.7	16	418	389	246	14	454	448	10	8.2
17	351	348	6.7	9.5	421	387	244	14	452	450	10	7.9
18	351	348	7.0	9.5	423	382	243	13	452	448	9.5	8.5
19	351	348	16	11	423	380	242	13	347	446	9.0	8.2
20	350	351	20	11	418	304	239	12	278	446	8.5	8.2
21	350	352	18	20	416	244	236	12	278	450	8.5	8.2
22	351	352	9.3	14	410	243	235	11	350	450	8.5	8.2
23	351	348	8.2	12	409	243	233	10	405	448	8.5	7.9
24	350	350	17	12	407	244	230	10	405	450	8.5	7.9
25	346	354	15	11	407	255	227	10	407	452	8.5	7.9
26	345	354	9.0	11	401	261	226	9.5	407	450	8.5	7.9
27	351	350	8.5	12	410	260	223	9.0	405	455	8.5	7.9
28	352	346	8.2	11	418	260	221	9.0	405	457	8.5	7.9
29	352	340	8.2	11	---	258	218	120	429	454	8.5	7.9
30	354	338	7.9	10	---	256	135	200	457	445	8.5	7.9
31	354	---	7.9	10	---	256	---	200	---	439	8.5	---
TOTAL	5894.9	10489	2105.9	2605.6	7294.6	10750	7153	859.5	12325	13935	5412.5	246.0
MEAN	190	350	67.9	84.1	261	347	238	27.7	411	450	175	8.20
MAX	354	356	342	339	423	419	255	200	461	457	436	8.5
MIN	7.9	338	6.0	7.9	7.9	243	135	9.0	278	439	8.5	7.9
AC-FT	11690	20800	4180	5170	14470	21320	14190	1700	24450	27640	10740	488

CAL YR 1969 TOTAL 89804.8 MEAN 246 MAX 1030 MIN 6.0 AC-FT 178100
WTR YR 1970 TOTAL 79071.0 MEAN 217 MAX 461 MIN 6.0 AC-FT 156800

11430000 SOUTH FORK RUBICON RIVER BELOW GERLE CREEK, NEAR GEORGETOWN, CALIF.

LOCATION.--Lat 38°57'17", long 120°24'02", in SW¼SW¼ sec.22, T.13 N., R.14 E., El Dorado County, Eldorado National Forest, on left bank 600 ft downstream from Gerle Creek and 18 miles east of Georgetown.

DRAINAGE AREA.--47.6 sq mi.

PERIOD OF RECORD.--February 1910 to June 1914 (published as Little South Fork Rubicon River below Gerle Creek, near Quintette), August 1961 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 4,970 ft (from topographic map). Feb. 1, 1910, to June 21, 1914, nonrecording gage at site about 700 ft downstream at different datum.

AVERAGE DISCHARGE.--8 years (1962-70), 27.4 cfs (19,850 acre-ft per year), unadjusted.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Dec. 20, 1965	185	3.67	Jan. 12, 1966	4.5
1967	Mar. 16, 1967	2,210	7.45	Nov. 11-13, 1966	2.7
1968	Feb. 20, 1968	362	4.47	Jan. 1-5, 13, 1968	3.7
1969	Jan. 20, 1969	2,760	8.01	Nov. 23, 28, 29, Dec. 4, 5, 1968	3.8
1970	Jan. 21, 1970	5,350	9.83	Apr. 10-12, 1970	4.8

Period of record: Maximum discharge, 11,500 cfs Jan. 31, 1963 (gage height, 12.32 ft), from rating curve extended above 2,500 cfs on basis of slope-area measurement of peak flow; minimum, 0.80 cfs Sept. 21, 1962.

REMARKS.--Records good. Beginning in 1884, flow regulated by Loon Lake (see station 11429350). Original dam was dismantled during September and October 1962 to permit construction of a new earthfill dam which was completed Dec. 27, 1963. Loon Lake receives water from Rubicon River via Rubicon-Rockbound tunnel to Buck Island Lake and from Buck Island Lake to Loon Lake via Buck-Loon tunnel (see stations 11427940, 11428300). Prior to Dec. 3, 1961, water was diverted out of the basin in Georgetown Divide ditch. Robbs Peak tunnel, 1.2 miles upstream (see station 11429800), began diversion of up to 1,320 cfs to Silver Creek basin October 1962. See schematic diagram of Middle Fork American and Rubicon River basins elsewhere in this report.

REVISIONS.--WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	10	6.8	6.2	5.0	5.1	12	8.2	8.6	8.9	8.2	9.7
2	13	9.7	6.6	5.5	5.0	5.1	12	8.2	8.4	8.2	8.2	9.5
3	12	8.2	6.6	5.8	5.0	5.1	11	8.2	8.4	8.2	8.2	11
4	11	8.4	6.6	6.0	5.1	5.0	11	8.2	8.6	8.0	8.2	16
5	11	7.8	6.6	15	5.5	5.0	11	8.0	8.4	8.0	8.4	18
6	11	6.2	6.6	5.8	5.5	5.1	11	8.2	8.4	8.4	8.2	18
7	10	6.0	6.4	5.3	5.1	5.8	11	8.4	8.6	8.4	8.0	17
8	11	6.2	6.4	5.6	5.1	6.4	10	8.4	8.4	8.6	8.2	16
9	14	6.4	6.4	5.8	5.0	7.0	10	8.4	8.6	8.2	8.2	11
10	12	6.4	6.4	5.6	5.0	9.1	13	8.6	8.9	8.2	8.2	8.0
11	12	5.8	6.4	4.6	5.0	8.0	12	8.4	8.4	8.2	9.9	8.0
12	11	6.0	6.4	4.5	5.0	8.0	11	8.4	8.4	8.6	13	7.0
13	11	6.6	6.2	5.6	5.0	9.3	9.9	8.4	8.6	8.6	9.3	11
14	11	15	6.0	5.6	4.8	8.9	9.9	8.4	8.9	8.4	8.6	10
15	11	7.6	5.8	5.5	4.8	8.4	12	8.2	8.9	8.6	8.4	9.3
16	12	7.6	5.6	5.5	4.8	8.2	12	8.2	8.9	8.2	8.6	6.0
17	11	8.9	5.6	5.3	4.8	8.0	12	8.2	9.1	8.0	8.6	6.0
18	11	18	5.5	5.3	4.8	8.9	12	8.2	8.4	8.2	8.6	5.8
19	11	9.5	5.3	5.3	5.0	9.5	11	8.2	9.1	8.4	8.6	6.2
20	10	7.4	12	5.1	5.0	9.3	10	8.2	9.9	8.2	8.4	9.1
21	10	7.0	5.8	5.3	5.0	9.3	10	8.2	9.9	8.0	8.2	8.6
22	9.9	6.8	5.3	5.1	5.0	9.3	9.9	8.2	10	8.2	8.4	8.6
23	9.9	8.2	5.5	5.1	5.1	9.7	10	8.4	10	8.2	8.4	9.1
24	9.9	8.9	5.6	5.0	5.1	10	18	8.4	9.7	8.0	8.4	9.1
25	9.9	7.6	8.2	5.0	5.1	10	9.3	8.4	9.7	8.0	8.4	9.1
26	10	7.0	6.0	5.0	5.1	11	8.6	8.4	9.5	8.0	8.4	8.6
27	11	7.0	5.3	5.0	5.1	12	8.6	8.4	9.5	8.2	8.2	8.2
28	10	7.0	5.5	5.0	5.1	12	8.4	8.4	9.7	8.2	8.0	8.2
29	10	6.8	16	5.0	---	12	8.4	8.4	9.1	8.4	8.2	8.2
30	10	6.8	7.2	5.1	---	12	8.4	8.4	8.9	8.2	12	8.2
31	10	---	8.9	5.0	---	13	---	8.6	---	8.0	12	---
TOTAL	343.6	240.8	209.5	174.5	140.9	265.5	323.4	257.8	269.9	255.9	272.6	298.5
MEAN	11.1	8.03	6.76	5.63	5.03	8.56	10.8	8.32	9.00	8.25	8.79	9.95
MAX	17	18	16	15	5.5	13	18	8.6	10	8.9	13	18
MIN	9.9	5.8	5.3	4.5	4.8	5.0	8.4	8.0	8.4	8.0	8.0	5.8
AC-FT	682	478	416	346	279	527	641	511	535	508	541	592

CAL YR 1965 TOTAL 3444.0 MEAN 9.44 MAX 31 MIN 5.3 AC-FT 6830
WTR YR 1966 TOTAL 3052.9 MEAN 8.36 MAX 18 MIN 4.5 AC-FT 6060

11430000 SOUTH FORK RUBICON RIVER BELOW GERLE CREEK, NEAR GEORGETOWN, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	5.3	94	7.2	12	7.4	5.6	4.5	61	9.7	10	11
2	8.2	5.0	167	7.0	11	7.6	5.5	5.1	285	9.9	17	11
3	8.0	5.0	106	7.0	9.7	7.6	5.5	6.8	260	9.7	16	11
4	7.2	4.5	10	7.0	9.3	7.2	5.5	7.8	13	9.9	15	11
5	7.6	3.3	22	7.0	9.1	7.0	5.3	7.8	16	9.9	14	11
6	8.9	4.3	37	7.0	8.9	7.0	5.5	8.9	14	9.5	12	11
7	8.4	3.7	13	7.0	8.9	7.0	5.3	10	12	77	7.6	11
8	8.9	3.4	10	6.8	8.6	7.2	5.5	12	12	9.5	8.6	11
9	8.6	2.9	9.5	6.8	8.6	7.2	5.5	13	13	9.3	9.7	11
10	8.4	2.8	24	6.8	8.4	7.4	5.3	15	13	9.3	10	11
11	8.4	2.7	101	6.6	8.4	7.8	5.1	11	12	9.3	11	11
12	8.9	2.7	76	6.4	8.4	9.5	5.3	11	13	313	11	11
13	8.9	2.7	50	5.8	8.6	45	5.5	11	12	532	11	11
14	8.4	2.9	7.8	5.8	8.6	11	5.5	13	12	556	11	11
15	7.8	3.7	7.2	5.8	7.8	9.7	5.1	14	12	520	11	11
16	7.6	6.6	7.2	5.8	7.6	1220	5.0	15	12	468	11	11
17	7.8	3.9	7.2	5.8	7.6	602	5.0	17	12	159	11	11
18	8.0	11	7.0	5.8	7.6	52	5.1	18	12	8.6	11	12
19	8.2	15	6.8	5.8	7.4	10	4.8	18	11	10	11	11
20	8.4	50	6.8	7.8	7.2	9.1	4.8	84	11	10	11	11
21	8.0	32	6.6	24	7.2	8.9	4.8	226	11	10	11	11
22	7.4	24	6.4	12	7.2	8.6	4.6	189	11	10	11	11
23	7.4	18	6.4	9.5	7.2	11	4.6	49	11	11	11	11
24	7.2	16	6.4	9.7	7.2	9.1	4.6	34	10	11	11	11
25	7.4	11	6.2	8.4	7.2	7.8	4.5	27	10	10	11	11
26	7.2	3.6	6.2	9.5	7.2	7.4	4.6	18	10	10	11	11
27	6.6	8.0	6.0	11	7.2	7.0	4.8	17	10	11	11	11
28	6.8	122	7.2	11	7.4	8.0	4.5	16	10	11	11	11
29	6.8	326	8.9	38	---	6.8	4.3	16	10	11	11	11
30	6.4	83	7.0	23	---	6.4	4.3	15	10	12	11	11
31	6.2	---	7.4	16	---	6.0	---	16	---	11	11	---
TOTAL	242.2	785.0	844.2	303.1	231.5	2135.7	151.3	925.9	921	2867.6	350.9	331
MEAN	7.81	26.2	27.2	9.78	8.27	68.9	5.04	29.9	30.7	92.5	11.3	11.0
MAX	8.9	326	167	38	12	1220	5.6	226	285	556	17	12
MIN	6.2	2.7	6.0	5.8	7.2	6.0	4.3	4.5	10	8.6	7.6	11
AC-FT	480	1560	1670	601	459	4240	300	1840	1830	5690	696	657

CAL YR 1966 TOTAL 4130.4 MEAN 11.3 MAX 326 MIN 2.7 AC-FT 8190
WTR YR 1967 TOTAL 10089.4 MEAN 27.6 MAX 1220 MIN 2.7 AC-FT 20010

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	7.6	4.3	3.7	5.9	7.9	9.0	8.2	8.8	9.5	9.9	8.9
2	13	6.9	4.4	3.7	5.8	7.7	8.1	8.1	8.8	9.7	9.7	8.9
3	12	4.9	4.4	3.7	5.9	7.5	7.7	8.1	8.9	9.7	9.7	8.9
4	11	4.8	5.4	3.7	5.3	7.4	7.6	7.7	8.8	9.7	9.6	8.9
5	12	4.7	7.6	3.7	5.1	7.4	7.7	7.5	8.8	9.3	9.5	8.9
6	11	4.6	5.0	3.8	5.1	7.1	7.4	7.4	9.0	9.5	9.5	8.6
7	11	4.6	4.9	3.9	5.1	6.9	7.3	7.4	9.2	9.5	9.6	8.4
8	11	4.6	4.5	4.0	5.2	7.3	7.3	7.4	9.0	9.5	9.3	8.6
9	11	4.6	4.5	3.8	5.9	6.9	7.5	7.3	9.0	9.5	9.4	8.6
10	11	4.6	4.4	4.0	5.9	6.6	7.7	7.6	9.2	9.5	9.4	8.9
11	11	4.6	4.2	3.8	5.8	6.4	7.6	8.4	9.0	9.5	9.4	8.9
12	11	4.6	4.1	3.8	5.9	6.3	7.4	8.4	9.1	9.5	9.3	8.2
13	10	4.6	5.1	3.7	5.4	6.5	7.1	8.8	8.9	9.7	9.4	7.2
14	10	5.4	8.6	4.1	5.1	6.3	7.0	8.7	8.7	9.9	9.1	7.6
15	10	4.8	7.7	9.6	5.1	6.2	6.9	8.8	8.9	9.9	9.2	7.2
16	11	4.8	5.4	6.7	5.5	6.4	6.6	8.7	8.9	9.9	9.2	7.6
17	11	4.6	5.0	5.4	11	6.1	6.3	8.6	9.1	9.9	9.2	5.6
18	11	4.9	4.9	5.0	8.6	5.9	6.1	8.4	9.1	10	9.2	5.6
19	11	6.6	4.7	4.8	9.6	5.8	6.0	8.4	8.9	10	11	6.2
20	11	5.1	4.5	4.6	37	5.8	6.0	8.4	9.1	10	9.0	9.3
21	11	4.7	4.1	4.7	17	5.9	5.8	8.4	8.6	9.7	9.7	9.5
22	11	4.6	4.3	4.9	12	6.1	5.7	8.3	8.7	9.9	9.2	9.7
23	51	4.6	4.1	4.9	13	6.3	5.7	8.3	8.7	9.9	9.1	8.6
24	7.9	4.6	4.1	4.8	11	6.4	5.7	8.4	8.6	9.9	8.9	5.8
25	7.7	4.4	4.1	4.7	9.3	6.8	5.8	8.4	8.7	9.9	8.8	5.6
26	7.5	4.3	4.2	4.7	8.7	6.9	5.7	8.4	8.7	9.9	8.7	6.6
27	7.4	4.4	4.2	4.7	8.5	7.0	5.7	8.4	9.1	9.6	8.8	8.6
28	7.6	4.5	4.1	4.6	8.4	7.4	5.7	8.5	9.7	9.6	8.8	8.2
29	7.5	4.8	4.0	4.6	8.1	7.9	5.6	8.7	9.7	9.7	8.9	8.2
30	7.6	4.7	3.9	9.8	---	8.2	6.4	8.7	9.7	9.8	8.9	8.2
31	7.6	---	3.9	8.9	---	8.3	---	8.9	---	10	8.9	---
TOTAL	354.8	147.5	148.6	150.8	250.2	211.6	202.1	255.7	269.4	301.6	288.3	240.2
MEAN	11.4	4.92	4.79	4.86	8.63	6.83	6.74	8.25	8.98	9.73	9.30	8.01
MAX	51	7.6	8.6	9.8	37	8.3	9.0	8.9	9.7	10	11	9.7
MIN	7.4	4.3	3.9	3.7	5.1	5.8	5.6	7.3	8.6	9.3	8.7	5.6
AC-FT	704	293	295	299	496	420	401	507	534	598	572	476

CAL YR 1967 TOTAL 8868.9 MEAN 24.3 MAX 1220 MIN 3.9 AC-FT 17590
WTR YR 1968 TOTAL 2820.8 MEAN 7.71 MAX 51 MIN 3.7 AC-FT 5600

11430000 SOUTH FORK RUBICON RIVER BELOW GERLE CREEK, NEAR GEORGETOWN, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	6.9	4.1	6.8	8.3	5.8	12	11	12	9.1	9.2	10
2	7.4	6.5	3.9	6.8	7.8	5.6	11	13	43	8.9	9.3	10
3	7.4	10	3.9	6.7	8.6	5.6	10	15	222	8.9	9.3	10
4	7.4	5.7	3.8	6.6	19	5.6	10	14	341	8.9	9.0	10
5	7.4	4.8	3.8	6.8	57	5.6	14	42	278	8.9	9.1	9.8
6	7.4	4.4	4.2	6.8	34	5.6	11	128	220	8.6	9.1	8.9
7	7.6	4.1	4.9	6.8	10	5.5	9.2	50	390	9.1	9.1	8.5
8	7.6	4.1	5.0	6.9	7.1	5.4	9.2	47	229	9.1	9.0	8.1
9	7.6	4.1	5.2	7.0	6.6	5.4	9.0	129	46	9.1	8.9	6.9
10	7.8	4.0	7.6	7.0	6.5	5.4	9.7	140	9.7	9.2	8.9	6.6
11	7.8	4.1	6.9	7.6	6.9	5.4	11	353	9.8	9.4	8.9	6.6
12	8.6	6.1	6.1	8.5	7.4	5.4	12	277	9.7	9.3	8.9	6.6
13	9.3	4.4	6.0	20	6.8	5.4	11	26	9.5	9.3	9.3	6.6
14	8.9	4.2	6.1	17	6.8	5.4	11	26	9.4	9.2	10	6.6
15	8.6	4.5	7.0	11	7.2	5.5	9.7	13	17	9.1	10	6.5
16	8.6	4.3	6.6	9.7	6.7	5.7	10	12	150	9.0	10	6.5
17	9.1	4.2	6.2	8.8	6.5	6.0	11	50	64	9.0	10	6.7
18	9.5	4.9	6.2	14	6.4	15	36	72	24	9.0	10	6.8
19	9.1	4.5	6.2	182	6.3	6.7	12	28	28	8.7	10	6.8
20	9.1	4.0	6.0	2040	6.2	6.5	12	14	9.1	8.7	10	6.8
21	9.3	3.9	6.3	1520	6.1	6.4	13	15	8.9	8.8	10	6.8
22	9.3	3.9	6.5	80	5.9	6.7	38	82	8.8	8.9	10	6.8
23	9.3	3.8	6.3	13	6.1	7.2	14	68	8.8	9.2	10	6.8
24	9.2	4.2	9.6	15	6.3	7.4	11	30	9.0	9.2	10	6.8
25	9.0	4.0	9.0	190	6.3	7.7	10	11	8.7	9.4	10	6.8
26	8.9	3.9	7.5	929	6.5	8.2	10	10	8.4	9.7	10	6.8
27	8.9	3.9	7.0	285	5.8	9.0	10	10	8.9	9.5	9.9	6.8
28	9.1	3.8	7.0	65	5.8	9.6	11	10	9.0	9.2	10	6.8
29	9.5	3.8	6.8	18	---	10	12	10	9.0	9.0	10	6.8
30	9.1	3.9	6.8	9.5	---	11	12	14	9.1	9.0	10	6.8
31	8.5	---	6.8	8.9	---	12	---	10	---	9.1	10	---
TOTAL	264.3	138.9	189.3	5520.2	280.9	217.7	381.8	1730	2209.8	281.5	297.9	223.3
MEAN	8.53	4.63	6.11	178	10.0	7.02	12.7	55.8	73.7	9.08	9.61	7.44
MAX	9.5	10	9.6	2040	57	15	38	353	390	9.7	10	10
MIN	7.4	3.8	3.8	6.6	5.8	5.4	9.0	10	8.4	8.6	8.9	6.5
AC-FT	524	276	375	10950	557	432	757	3430	4380	558	591	443

CAL YR 1968 TOTAL 2762.4 MEAN 7.55 MAX 37 MIN 3.7 AC-FT 5480
WTR YR 1969 TOTAL 11735.6 MEAN 32.2 MAX 2040 MIN 3.8 AC-FT 23280

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	9.2	6.0	6.2	7.6	8.4	5.5	5.5	9.9	9.8	11	10
2	7.0	9.2	6.0	5.9	7.2	11	5.2	5.3	10	9.8	11	11
3	7.0	9.2	6.0	5.8	7.0	7.1	5.2	5.1	9.9	9.8	11	11
4	7.0	9.2	6.0	5.7	6.7	6.7	5.2	5.1	9.8	9.8	11	11
5	7.0	10	6.0	5.5	6.5	6.6	5.2	5.8	9.8	9.8	11	11
6	7.0	8.4	6.0	5.5	6.3	6.7	5.1	8.0	9.6	9.8	11	11
7	7.0	7.9	6.0	5.4	6.2	6.8	5.0	8.3	10	9.8	11	11
8	7.2	7.2	6.2	5.9	6.0	7.3	5.0	8.3	11	9.8	11	11
9	8.2	7.1	6.1	12	28	7.0	4.9	8.3	11	9.7	11	11
10	9.6	6.7	6.1	14	59	6.8	4.8	8.3	10	9.6	11	11
11	9.5	6.3	6.5	9.9	9.9	6.6	4.8	8.2	9.9	9.4	11	10
12	9.7	6.2	6.6	11	9.6	6.7	4.8	8.2	9.9	9.6	11	10
13	9.7	6.2	6.7	16	9.9	7.1	5.0	8.2	9.8	9.6	11	10
14	9.8	6.2	6.3	103	9.5	7.6	5.0	8.2	10	9.4	11	10
15	11	6.3	6.0	17	9.4	7.5	5.0	8.2	9.9	10	11	10
16	11	6.7	6.0	2290	10	7.3	5.2	8.2	12	10	11	10
17	11	6.3	6.0	797	12	7.2	5.1	8.1	9.7	10	11	10
18	10	6.2	5.6	132	9.4	6.7	5.0	8.1	9.7	10	11	10
19	9.9	6.2	8.5	60	7.3	6.5	5.5	8.0	9.5	10	10	10
20	9.9	6.2	336	456	6.8	6.4	5.2	8.0	9.5	11	8.9	10
21	9.8	6.2	817	3480	6.6	6.2	5.3	8.2	9.5	11	8.8	10
22	9.7	6.2	81	2030	6.4	6.2	5.4	9.0	9.5	11	8.2	10
23	9.5	6.2	35	753	6.4	6.2	5.3	9.4	9.4	11	7.9	11
24	9.3	6.1	500	956	6.4	6.2	5.2	9.3	9.4	11	7.8	11
25	9.2	6.0	553	432	6.3	6.1	5.1	9.4	9.4	11	7.7	11
26	9.2	6.0	62	246	6.3	6.0	5.6	9.4	9.7	11	8.9	11
27	9.2	6.0	9.3	333	6.3	5.9	5.4	9.6	9.9	11	10	11
28	9.2	6.0	8.0	70	6.9	5.8	5.3	9.7	9.9	11	10	11
29	9.2	6.0	7.3	10	---	5.8	5.4	9.8	9.8	11	10	11
30	9.2	6.0	6.8	9.0	---	5.7	5.5	9.8	9.9	11	10	11
31	9.2	---	10	8.1	---	5.6	---	9.8	---	11	10	---
TOTAL	278.0	207.6	2544.0	12290.9	285.9	209.7	155.2	252.8	297.3	317.7	316.2	317
MEAN	8.97	6.92	82.1	396	10.2	6.76	5.17	8.15	9.91	10.2	10.2	10.6
MAX	11	10	817	3480	59	11	5.6	9.8	12	11	11	11
MIN	6.8	6.0	5.6	5.4	6.0	5.6	4.8	5.1	9.4	9.4	7.7	10
AC-FT	551	412	5050	24380	567	416	308	501	590	630	627	629

CAL YR 1969 TOTAL 14172.7 MEAN 38.8 MAX 2040 MIN 5.4 AC-FT 28110
WTR YR 1970 TOTAL 17472.3 MEAN 47.9 MAX 3480 MIN 4.8 AC-FT 34660

11431800 PILOT CREEK ABOVE STUMPY MEADOWS LAKE, CALIF.

(Formerly published as Pilot Creek above Stumpy Meadows Reservoir)

LOCATION.--Lat 38°53'41", long 120°34'02", in NE¼NW¼ sec.18, T.12 N., R.13 E., El Dorado County, on right bank 2.1 miles upstream from Stumpy Meadows Dam and 12.5 miles east of Georgetown.

DRAINAGE AREA.--11.7 sq mi.

PERIOD OF RECORD.--October 1960 to September 1970. Prior to October 1965, published as "above Stumpy Meadows Reservoir."

GAGE.--Water-stage recorder. Altitude of gage is 4,280 ft (from topographic map).

AVERAGE DISCHARGE.--10 years, 25.8 cfs (18,690 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (100 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Apr. 1, 1966	2200	*80	2.04	Jan. 15, 1968	0730	198	2.66	Dec. 21, 1969	1430	282	2.96
				Feb. 17, 1968	1500	115	2.24	Dec. 24, 1969	0630	306	3.03
Dec. 2, 1966	2300	173	2.56	Feb. 20, 1968	0500	*200	2.67	Jan. 10, 1970	0200	120	2.24
Dec. 6, 1966	1500	197	2.66					Jan. 14, 1970	1300	590	3.76
Jan. 21, 1967	1000	229	2.78	Jan. 13, 1969	1900	192	2.63	Jan. 16, 1970	1030	*876	4.26
Jan. 30, 1967	1800	235	2.80	Jan. 21, 1969	1200	*1,090	4.59	Jan. 21, 1970	2030	846	4.21
Mar. 16, 1967	2100	*344	3.14	Jan. 26, 1969	0530	684	3.94	Jan. 27, 1970	0730	323	3.18
May 10, 1967	0600	148	2.44	Apr. 5, 1969	1200	138	2.48				
May 21, 1967	2100	229	2.78	Apr. 23, 1969	0900	140	2.49				
June 5, 1967	1800	111	2.25	May 9, 1969	2030	127	2.41				

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Aug. 20-26, Sept. 4-7, 10, 1966	1.9	1969	Oct. 1-3, 1968	2.8
1967	Oct. 1, 4, 9-11, 1966	2.4	1970	Aug. 25, Sept. 1-4, 11-13, 1970	3.2
1968	Sept.29, 30, 1968	2.7			

Period of record: Maximum discharge, 2,380 cfs Dec. 23, 1964 (gage height, 5.92 ft in gage well; 6.6 ft, from floodmarks), from rating curve extended above 170 cfs on basis of slope-area measurement of peak flow; maximum gage height, 8.05 ft Jan. 31, 1963; minimum daily discharge, 1.9 cfs Aug. 20-26, Sept. 4-7, 10, 1966.

REMARKS.--Records good. No regulation or diversion above station. See schematic diagram of Middle Fork American and Rubicon River basins elsewhere in this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	5.3	10	7.1	9.2	11	73	16	8.9	4.8	3.6	2.2
2	6.0	5.3	9.8	7.0	8.9	10	74	16	8.6	5.0	3.2	2.1
3	6.0	5.3	9.8	7.9	8.6	11	69	15	8.6	4.8	2.9	2.1
4	6.0	5.3	9.5	10	9.5	11	66	14	8.2	4.8	2.8	1.9
5	6.0	5.3	9.5	17	12	10	63	14	7.9	5.0	2.6	1.9
6	6.0	5.3	9.8	16	14	12	60	13	8.2	4.8	2.5	1.9
7	5.8	5.3	9.5	14	11	15	57	12	8.6	4.8	2.5	1.9
8	5.5	5.5	9.2	14	11	17	52	12	8.6	4.8	2.5	2.1
9	5.5	6.0	9.2	13	11	20	48	12	8.2	4.8	2.5	2.1
10	5.5	6.0	9.2	12	9.2	36	60	14	7.6	4.8	2.4	1.9
11	5.5	5.8	9.5	12	8.9	34	63	12	7.3	4.8	2.4	2.1
12	5.5	6.6	9.8	11	8.9	31	60	11	7.1	4.8	2.4	2.2
13	5.5	7.9	9.5	11	8.2	39	52	11	6.8	4.8	2.4	2.4
14	6.6	22	9.2	11	7.9	41	47	10	6.6	4.6	2.4	2.6
15	8.6	12	9.0	11	7.8	42	44	10	6.3	4.5	2.2	2.6
16	7.1	11	8.9	11	7.8	41	43	9.8	6.0	4.5	2.2	2.6
17	6.8	18	8.7	10	8.6	36	41	9.5	6.0	4.3	2.2	2.4
18	6.6	51	8.5	10	8.6	34	38	8.9	5.8	4.3	2.2	2.6
19	6.6	24	8.4	10	9.2	36	34	8.9	5.8	4.3	2.1	3.2
20	6.6	16	8.3	9.8	9.5	34	31	8.6	5.8	4.3	1.9	2.9
21	6.6	12	8.1	9.8	9.2	33	28	8.6	5.8	4.1	1.9	2.6
22	6.3	11	8.0	9.8	9.5	33	26	8.6	5.8	3.9	1.9	2.5
23	6.0	16	8.0	9.8	12	34	24	8.6	5.8	3.6	1.9	2.4
24	6.0	19	7.8	9.5	14	37	24	8.2	5.8	3.4	1.9	2.4
25	6.0	16	7.3	9.5	12	41	23	7.9	5.5	3.4	1.9	2.4
26	5.8	12	6.0	9.2	12	44	22	7.6	5.5	3.2	1.9	2.5
27	5.8	12	6.0	9.2	12	49	20	7.6	5.3	3.2	2.1	2.4
28	5.8	12	8.7	9.2	11	57	20	7.9	5.0	3.2	2.1	2.2
29	5.5	11	9.1	9.8	---	62	19	8.9	4.8	3.1	2.1	2.1
30	5.3	10	7.8	22	---	66	18	8.9	4.8	3.2	2.2	2.2
31	5.3	---	7.4	10	---	69	---	8.9	---	3.9	2.4	---
TOTAL	188.1	359.9	269.5	342.6	281.5	1046	1299	329.4	201.0	131.8	72.2	69.4
MEAN	6.07	12.0	8.69	11.1	10.1	33.7	43.3	10.6	6.70	4.25	2.33	2.31
MAX	8.6	51	10	22	14	69	74	16	8.9	5.0	3.6	3.2
MIN	5.3	5.3	6.0	7.0	7.8	10	18	7.6	4.8	3.1	1.9	1.9
AC-FT	373	714	535	680	558	2070	2580	653	399	261	143	138

CAL YR 1965 TOTAL 10520.3 MEAN 28.8 MAX 171 MIN 5.3 AC-FT 20870
WTR YR 1966 TOTAL 4590.4 MEAN 12.6 MAX 74 MIN 1.9 AC-FT 9110

11431800 PILOT CREEK ABOVE STUMPY MEADOWS LAKE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	2.5	23	8.0	122	24	53	31	82	23	11	7.1
2	2.5	2.6	84	8.0	94	24	50	34	75	23	10	6.8
3	2.5	2.5	70	7.7	76	24	47	39	70	23	10	7.1
4	2.4	2.5	30	7.7	65	23	46	42	70	22	9.6	7.1
5	2.5	2.6	99	8.0	56	22	44	44	91	20	9.6	8.0
6	2.5	6.4	130	7.7	49	21	45	47	85	19	10	7.1
7	2.5	7.1	82	7.1	44	21	44	61	73	19	10	7.1
8	2.5	4.8	48	6.8	42	21	43	80	68	19	9.6	7.1
9	2.4	4.3	38	6.8	39	22	43	106	65	19	9.2	6.8
10	2.4	3.9	33	6.8	38	24	43	146	62	18	9.2	6.8
11	2.4	4.1	29	6.8	38	27	41	130	59	18	8.8	6.8
12	2.5	3.9	24	6.8	38	29	40	115	57	17	9.2	6.8
13	2.6	3.9	21	6.8	38	30	41	106	53	16	9.6	6.5
14	2.8	3.9	19	6.5	39	24	42	107	50	16	9.2	6.8
15	2.8	6.0	18	6.5	36	24	40	122	47	15	8.8	6.8
16	2.8	22	16	6.5	35	233	38	150	46	15	8.4	6.5
17	2.8	10	15	6.2	34	227	39	171	43	15	8.4	6.8
18	2.8	7.6	14	6.2	34	152	40	180	42	14	8.0	10
19	2.8	7.1	14	6.2	33	120	38	180	40	14	7.4	7.7
20	2.8	23	13	17	30	102	36	192	38	14	7.4	7.1
21	2.8	18	13	165	30	91	35	204	35	13	7.4	7.1
22	2.9	16	12	91	28	85	34	202	34	13	7.4	7.1
23	2.9	10	12	58	27	99	34	190	33	13	7.4	7.4
24	2.8	8.6	11	48	26	96	34	173	31	12	7.4	7.4
25	2.8	7.9	10	39	26	86	33	154	30	12	8.0	7.4
26	2.8	7.1	10	43	25	80	32	138	30	12	7.7	6.8
27	2.8	6.8	10	49	24	73	33	126	26	12	8.0	6.8
28	2.8	17	10	51	24	72	31	116	26	12	8.0	6.8
29	2.8	31	9.2	152	---	66	30	104	26	12	7.7	6.8
30	2.8	16	8.8	181	---	61	30	91	25	11	7.1	6.8
31	2.6	---	8.4	167	---	58	---	88	---	11	7.1	---
TOTAL	82.5	269.1	934.4	1194.1	1190	2061	1179	3669	1512	492	266.6	213.2
MEAN	2.66	8.97	30.1	38.5	42.5	66.5	39.3	118	50.4	15.9	8.60	7.11
MAX	2.9	31	130	181	122	233	53	204	91	23	11	10
MIN	2.4	2.5	8.4	6.2	24	21	30	31	25	11	7.1	6.5
AC-FT	164	534	1850	2370	2360	4090	2340	7280	3000	976	529	423

CAL YR 1966 TOTAL 5058.9 MEAN 13.9 MAX 130 MIN 1.9 AC-FT 10030
WTR YR 1967 TOTAL 13062.9 MEAN 35.8 MAX 233 MIN 2.4 AC-FT 25910

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	6.7	9.4	8.7	12	61	63	21	12	7.1	5.8	3.9
2	13	6.4	8.4	8.3	15	57	60	20	12	6.7	4.9	3.7
3	20	6.4	8.7	8.0	25	55	56	19	12	6.7	4.6	3.5
4	11	6.4	13	7.6	18	52	54	19	12	6.7	4.4	3.5
5	11	6.4	39	7.6	16	51	53	19	12	6.7	4.2	3.5
6	9.8	6.4	16	7.7	15	48	50	19	12	6.4	3.9	3.5
7	9.1	6.4	15	8.0	15	47	48	18	12	6.0	3.9	3.5
8	8.7	6.4	13	8.7	15	49	48	18	12	6.0	3.7	3.4
9	8.4	6.4	12	9.1	18	45	48	17	12	5.8	3.7	3.4
10	8.4	6.4	12	10	19	41	49	17	11	5.8	3.7	3.4
11	8.4	6.4	11	10	18	38	49	17	11	5.6	3.5	3.2
12	8.1	6.4	10	9.8	18	36	46	17	10	5.6	3.4	3.4
13	8.1	6.4	9.2	9.8	18	38	43	20	9.8	5.6	3.5	3.5
14	7.7	10	8.6	12	18	36	42	21	9.8	5.8	3.5	3.7
15	7.4	8.1	8.2	89	17	35	40	22	9.8	5.8	3.7	3.9
16	7.4	7.7	8.0	41	19	36	38	20	9.4	5.6	3.5	3.5
17	7.4	7.4	8.0	23	76	34	34	18	9.4	5.6	3.7	3.4
18	7.4	8.7	8.0	18	69	31	32	17	9.1	5.6	3.7	3.2
19	7.4	23	8.0	16	64	31	30	16	9.1	5.3	14	3.0
20	7.1	14	8.0	15	156	28	29	16	8.7	5.1	9.9	3.5
21	7.1	11	8.3	14	160	28	28	15	8.7	4.9	6.4	3.7
22	7.1	9.1	8.5	14	136	28	26	15	8.7	4.9	5.8	3.5
23	7.1	8.4	8.8	15	140	28	25	15	8.4	4.9	5.6	3.4
24	7.1	8.4	9.0	14	123	30	25	14	8.4	4.6	5.1	3.2
25	7.1	8.1	9.1	14	102	34	24	14	8.1	4.6	4.9	3.2
26	7.1	8.1	9.4	14	86	37	24	13	7.7	4.4	4.9	3.0
27	7.1	8.1	9.8	13	78	37	23	13	7.4	4.2	4.6	3.0
28	7.1	8.4	9.8	12	70	40	23	13	7.4	4.2	4.6	3.0
29	7.1	9.1	9.4	11	65	47	22	13	7.4	3.9	4.4	2.7
30	6.7	9.4	8.7	12	---	55	22	12	7.1	4.2	4.2	2.7
31	6.7	---	8.7	12	---	60	---	12	---	5.1	3.9	---
TOTAL	260.8	250.5	333.0	472.3	1601	1273	1154	520	294.4	169.4	149.6	101.0
MEAN	8.41	8.35	10.7	15.2	55.2	41.1	38.5	16.8	9.81	5.46	4.83	3.37
MAX	20	23	39	89	160	61	63	22	12	7.1	14	3.9
MIN	6.7	6.4	8.0	7.6	12	28	22	12	7.1	3.9	3.4	2.7
AC-FT	517	497	661	937	3180	2520	2290	1030	584	336	297	200

CAL YR 1967 TOTAL 12621.2 MEAN 34.6 MAX 233 MIN 6.2 AC-FT 25030
WTR YR 1968 TOTAL 6579.0 MEAN 18.0 MAX 160 MIN 2.7 AC-FT 13050

11431800 PILOT CREEK ABOVE STUMPY MEADOWS LAKE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	4.6	6.0	12	64	26	92	103	28	15	8.7	5.3
2	2.8	9.4	5.6	12	55	25	94	100	27	15	8.7	5.1
3	2.8	35	5.8	11	51	25	88	94	26	14	8.7	5.1
4	3.0	16	5.6	11	47	23	82	88	25	14	8.4	5.1
5	3.0	9.1	5.3	11	46	23	116	91	25	14	8.4	5.1
6	3.0	7.4	5.6	11	42	23	106	100	23	14	8.4	5.1
7	3.0	6.4	5.6	11	37	23	94	108	23	14	8.1	5.6
8	3.0	6.0	5.8	12	35	23	85	113	23	14	8.1	6.4
9	3.0	5.8	5.8	11	34	23	79	118	23	13	8.1	5.8
10	3.0	5.6	14	12	32	23	75	116	23	13	8.1	5.6
11	3.0	5.6	18	14	37	23	81	115	25	12	8.1	5.8
12	4.4	14	10	23	41	23	92	108	24	12	7.7	5.8
13	7.4	9.1	9.1	103	36	23	95	98	23	12	7.7	5.8
14	8.1	7.7	10	81	36	22	92	88	22	12	7.4	5.8
15	5.6	8.7	14	74	46	21	85	75	21	12	7.1	5.8
16	4.9	8.4	14	54	42	21	82	72	24	12	7.1	5.8
17	4.4	7.7	11	42	39	22	86	70	22	12	6.7	5.8
18	4.2	11	9.4	50	38	23	100	64	21	12	6.7	5.8
19	4.2	11	9.4	415	36	24	100	60	20	11	6.7	5.8
20	4.2	8.7	10	906	36	25	105	53	19	11	6.4	5.8
21	3.9	7.7	10	894	32	26	118	51	19	11	6.4	5.8
22	3.9	7.4	10	423	30	27	129	49	18	10	6.0	5.6
23	3.9	6.7	11	220	30	28	136	46	17	11	6.0	5.6
24	3.7	7.4	24	185	29	30	116	43	17	10	6.0	5.3
25	3.7	7.1	32	351	28	32	103	39	17	10	6.0	5.3
26	3.7	6.4	20	469	28	36	94	38	17	9.8	6.0	5.1
27	3.7	6.0	16	232	26	42	92	37	17	9.8	5.8	5.1
28	3.7	6.0	16	164	26	49	95	34	16	9.8	5.8	5.1
29	4.4	5.8	14	120	---	57	103	31	15	9.4	5.8	5.1
30	7.1	6.0	13	89	---	73	105	29	15	9.4	5.8	5.1
31	4.9	---	12	73	---	85	---	28	---	9.1	5.6	---
TOTAL	126.4	263.7	358.0	5096	1059	949	2920	2259	635	367.3	220.5	165.3
MEAN	4.08	8.79	11.5	164	37.8	30.6	97.3	72.9	21.2	11.8	7.11	5.51
MAX	8.1	35	32	906	64	85	136	118	28	15	8.7	6.4
MIN	2.8	4.6	5.3	11	26	21	75	28	15	9.1	5.6	5.1
AC-FT	251	523	710	10110	2100	1880	5790	4480	1260	729	437	328

CAL YR 1968 TOTAL 6482.8 MEAN 17.7 MAX 160 MIN 2.7 AC-FT 12860
WTR YR 1969 TOTAL 14419.2 MEAN 39.5 MAX 906 MIN 2.8 AC-FT 28600

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	6.0	6.4	28	92	53	29	22	12	8.6	4.6	3.2
2	5.1	6.0	6.4	24	79	46	28	21	11	8.2	4.5	3.2
3	5.1	6.0	6.4	22	70	43	27	20	11	7.9	4.4	3.2
4	5.1	5.8	6.4	20	64	42	26	19	11	7.7	4.4	3.2
5	5.3	14	6.0	19	58	41	26	19	11	7.2	4.3	3.6
6	5.3	24	6.0	19	55	42	25	19	11	7.0	4.3	3.6
7	5.3	12	6.0	17	51	41	24	19	11	6.9	4.2	3.7
8	5.6	10	7.1	18	48	46	24	19	12	6.8	4.0	3.5
9	6.0	9.1	7.1	39	45	45	24	18	16	6.7	4.0	3.4
10	5.6	8.7	7.7	86	43	44	23	18	13	6.7	3.9	3.3
11	5.3	8.4	12	64	42	43	22	18	12	6.6	3.7	3.2
12	5.3	8.1	11	69	45	43	22	17	12	6.6	3.7	3.2
13	5.3	7.7	13	111	47	44	23	17	12	6.3	3.6	3.2
14	5.8	7.4	10	373	45	47	24	16	12	6.2	3.8	3.6
15	16	7.4	8.7	226	42	48	24	16	12	6.0	3.7	3.7
16	22	9.4	8.4	591	48	48	24	15	11	5.8	3.7	3.6
17	15	8.7	7.7	559	65	48	24	15	11	5.8	3.7	3.5
18	9.4	7.4	7.4	264	52	46	24	15	11	5.6	3.7	3.3
19	8.4	7.4	32	190	48	45	26	15	10	5.4	3.6	3.7
20	7.7	7.1	110	171	46	44	24	15	9.7	5.2	3.6	4.0
21	7.1	7.1	149	545	44	43	23	14	9.4	5.1	3.5	4.0
22	6.7	7.1	75	462	43	42	23	14	9.2	5.1	3.4	3.8
23	6.7	6.7	65	247	42	40	22	14	8.9	5.1	3.4	3.7
24	6.7	6.7	234	260	39	39	22	13	8.8	4.9	3.4	3.7
25	6.7	6.4	168	192	38	38	21	13	8.6	4.8	3.2	3.5
26	6.4	6.4	108	151	38	36	23	13	9.3	4.7	3.4	3.5
27	6.4	6.4	74	242	37	35	22	13	9.5	4.6	3.5	3.5
28	6.4	6.4	56	178	40	33	22	13	9.6	4.6	3.4	3.4
29	6.0	6.4	46	145	---	32	22	13	9.6	4.6	3.2	3.4
30	.0	.	3	121	---	31	22	12	9.0	.	3.3	3.3
TOTAL	224.6	246.6	1328.7	5559	1406	1298	715	497	323.6	186.1	116.4	104.7
MEAN	7.25	8.22	42.9	179	50.2	41.9	23.8	16.0	10.8	6.00	3.75	3.49
MAX	22	24	234	591	92	53	29	22	16	8.6	4.6	4.0
MIN	4.9	5.8	6.0	17	37	30	21	12	8.6	4.6	3.2	3.2
AC-FT	445	489	2640	11030	2790	2570	1420	986	642	369	231	208

CAL YR 1969 TOTAL 15471.0 MEAN 42.4 MAX 906 MIN 4.9 AC-FT 30690
WTR YR 1970 TOTAL 12005.7 MEAN 32.9 MAX 591 MIN 3.2 AC-FT 23810

11433040 PILOT CREEK BELOW MUTTON CANYON, NEAR GEORGETOWN, CALIF.

LOCATION.--Lat 38°55'25", long 120°38'27", in NE¼NW¼ sec.4, T.12 N., R.12 E., El Dorado County, Eldorado National Forest, on left bank 450 ft downstream from Mutton Canyon, 500 ft downstream from Georgetown Divide diversion dam, 2.5 miles downstream from Stumpy Meadows Dam, and 10 miles east of Georgetown.

DRAINAGE AREA.--21.1 sq mi.

PERIOD OF RECORD.--June 1961 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 3,760 ft (from topographic map).

AVERAGE DISCHARGE.--9 years, 32.0 cfs (23,180 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Mar. 28, 1966	169	3.92	Sept.24, 1966	.20
1967	Mar. 16, 1967	382	5.08	Nov. 1-5, 1966	.20
1968	Feb. 21, 1968	253	4.71	Sept.24-30, 1968	.86
1969	Jan. 21, 1969	1,760	7.79	Oct. 4, 1968	.66
1970	Jan. 21, 1970	1,410	7.36	Sept.30, 1970	.87

Period of record: Maximum discharge, 5,430 cfs Dec. 22, 1964 (gage height, 9.60 ft), from rating curve extended above 150 cfs on basis of slope-area measurement at gage height 5.00 ft; maximum gage height, 10.06 ft Dec. 23, 1964; minimum daily discharge, 0.20 cfs Sept. 24, Nov. 1-5, 1966.

REMARKS.--Records good. Flow regulated by Stumpy Meadows Lake (usable capacity, 20,000 acre-ft) completed in November 1961. Georgetown Irrigation District ditch (capacity, about 20 cfs) diverts water out of Pilot Creek 500 ft above station. See schematic diagram of Middle Fork American and Rubicon River basins elsewhere in this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	1.6	3.4	2.3	2.1	2.4	82	7.1	5.1	1.1	1.7	.70
2	1.8	1.6	3.3	2.2	2.0	2.3	84	5.9	4.0	1.1	1.7	.70
3	1.8	1.6	3.3	2.1	2.0	2.2	103	5.9	3.1	1.3	1.5	2.5
4	1.8	1.6	3.3	2.4	2.2	2.2	84	7.1	1.9	1.9	1.5	2.5
5	1.8	1.6	3.3	7.2	3.0	2.3	77	7.9	.90	2.1	1.3	2.5
6	1.8	1.6	3.2	5.5	4.3	2.4	72	5.1	.90	2.3	1.5	2.5
7	1.8	1.6	3.0	3.4	2.9	3.6	70	4.0	.90	.90	1.5	2.5
8	1.7	1.6	3.0	3.0	2.6	3.8	57	3.4	1.1	.90	2.1	2.5
9	1.7	1.6	3.0	2.9	2.3	5.5	43	4.0	1.1	.80	3.4	2.5
10	1.7	1.6	2.9	2.8	2.2	12	88	8.9	1.3	.80	2.8	2.5
12	1.7	1.7	3.2	2.4	2.1	30	86	7.5	2.3	.90	1.9	5.1
13	1.7	1.8	3.2	2.4	2.1	48	63	5.1	3.1	.90	2.1	7.5
14	2.3	3.2	2.7	2.3	2.0	49	50	3.1	3.1	.90	2.3	7.1
15	2.6	2.1	2.6	2.3	2.0	54	43	2.1	3.4	.90	2.1	6.7
16	1.8	2.8	2.6	2.2	2.0	73	40	1.7	3.1	2.1	2.1	5.1
17	1.8	5.1	2.6	2.2	2.0	69	41	1.7	1.7	2.1	2.3	4.3
18	1.8	23	2.4	2.2	2.1	59	37	1.5	1.5	1.3	2.3	3.7
19	1.7	12	2.4	2.2	2.2	61	31	1.5	1.5	2.1	2.3	3.7
20	1.7	8.2	2.4	2.1	2.2	59	27	2.5	1.3	2.5	2.3	3.4
21	1.7	7.0	2.4	2.1	2.2	56	23	6.3	1.3	2.3	2.3	2.1
22	1.7	6.4	2.3	2.1	2.2	54	20	6.3	1.3	2.1	2.3	1.1
23	1.7	8.2	2.3	2.1	2.9	54	18	5.9	1.3	1.7	2.3	.80
24	1.6	6.0	2.3	2.1	3.0	54	16	5.5	1.3	1.9	2.3	.20
25	1.6	4.9	2.3	2.1	2.7	55	15	5.5	1.1	2.1	1.5	.40
26	1.6	4.1	2.3	2.1	2.6	59	14	5.5	.90	1.7	1.1	.60
27	1.6	3.9	2.2	2.1	2.6	64	12	5.9	.90	2.8	1.3	.50
28	1.6	3.8	2.9	2.1	2.4	84	11	4.0	1.1	2.8	1.5	.40
29	1.6	3.8	3.2	2.2	---	109	9.4	4.0	1.1	1.7	1.5	.80
30	1.6	3.8	2.7	2.3	---	82	8.4	2.8	1.1	1.9	1.7	1.9
31	1.6	---	2.6	2.1	---	82	---	2.3	---	1.9	1.7	---
TOTAL	54.4	129.4	86.3	80.0	67.0	1310.7	1397.8	147.9	53.80	50.70	61.1	79.30
MEAN	1.75	4.31	2.78	2.58	2.39	42.3	46.6	4.77	1.79	1.64	1.97	2.64
MAX	2.6	23	3.4	7.2	4.3	109	103	8.9	5.1	2.8	3.4	7.5
MIN	1.6	1.6	2.2	2.1	2.0	2.2	8.4	1.5	.90	.80	1.1	.20
AC-FT	108	257	171	159	133	2600	2770	293	107	101	121	157

CAL YR 1965	TOTAL	17155.40	MEAN	47.0	MAX 559	MIN 1.6	AC-FT	34030
WTR YR 1966	TOTAL	3518.40	MEAN	9.64	MAX 109	MIN .20	AC-FT	6980

11433040 PILOT CREEK BELOW MUTTON CANYON, NEAR GEORGETOWN, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	.20	5.5	1.5	185	16	101	56	106	19	5.7	4.3
2	.90	.20	24	1.3	166	16	86	57	92	18	5.7	4.3
3	.90	.20	15	1.3	150	16	79	61	81	16	5.7	4.3
4	.80	.20	5.9	1.3	120	14	78	69	73	14	5.3	4.6
5	.60	.20	26	1.3	97	14	81	76	110	12	5.3	5.0
6	.30	3.1	41	1.9	79	12	87	79	105	10	5.3	4.6
7	.30	.80	17	1.9	68	12	96	94	86	8.4	5.3	4.6
8	.40	.50	11	1.9	58	12	78	120	75	7.5	5.0	4.6
9	.40	.40	7.5	1.3	54	14	70	152	69	7.1	5.0	3.7
10	.40	.40	7.1	1.3	50	19	72	250	65	6.4	5.3	3.4
11	.40	.40	5.1	1.3	47	55	72	235	62	6.1	6.4	3.4
12	.40	.40	3.7	1.3	46	55	68	208	58	5.7	6.4	3.2
13	.30	.40	3.1	1.3	45	52	65	185	57	4.6	6.1	3.0
14	.30	.40	2.8	1.3	51	36	69	175	52	3.9	6.1	3.0
15	.30	.70	2.3	1.1	46	31	72	180	49	3.9	6.1	3.0
16	.30	7.4	2.1	1.1	43	211	66	208	47	3.9	5.7	2.9
17	.70	1.9	2.1	1.1	39	304	79	241	46	3.9	5.7	4.1
18	1.1	.80	2.1	1.3	36	232	89	253	47	6.1	5.0	4.6
19	.90	1.7	1.9	1.3	34	180	79	244	46	5.7	5.0	3.4
20	.40	13	1.9	7.5	29	150	68	244	41	3.7	4.6	3.2
21	.40	10	1.9	76	26	140	63	247	37	5.0	4.6	3.0
22	.40	9.6	1.7	36	25	134	63	247	35	8.0	4.6	3.2
23	.40	2.3	1.7	21	24	144	66	232	31	7.5	4.6	3.6
24	.30	1.3	1.7	18	24	146	68	202	29	7.1	4.6	3.9
25	.30	.90	1.7	16	27	136	63	182	26	6.8	4.6	3.9
26	.30	.80	1.7	18	22	128	58	164	25	6.4	4.6	3.7
27	.30	.80	1.7	21	19	120	60	146	22	6.4	4.6	3.6
28	.30	2.5	1.7	22	18	118	60	134	21	6.1	4.3	3.6
29	.30	7.1	1.7	73	---	116	57	120	21	6.1	4.3	2.7
30	.30	2.5	1.7	74	---	114	56	106	19	6.1	4.3	2.5
31	.30	---	1.5	123	---	118	---	112	---	6.1	4.3	---
TOTAL	15.20	71.10	205.8	531.6	1628	2865	2169	5079	1633	237.5	160.1	110.9
MEAN	.49	2.37	6.64	17.1	58.1	92.4	72.3	164	54.4	7.66	5.16	3.70
MAX	1.5	13	41	123	185	304	101	253	110	19	6.4	5.0
MIN	.30	.20	1.5	1.1	18	12	56	56	19	3.7	4.3	2.5
AC-FT	30	141	408	1050	3230	5680	4300	10070	3240	471	318	220

CAL YR 1966 TOTAL 3540.40 MEAN 9.70 MAX 109 MIN .20 AC-FT 7020
WTR YR 1967 TOTAL 14706.20 MEAN 40.3 MAX 304 MIN .20 AC-FT 29170

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	2.1	3.0	2.4	3.4	82	84	12	2.1	4.3	4.6	1.6
2	7.7	2.1	2.9	2.4	4.3	76	84	12	2.1	6.0	3.9	1.6
3	5.3	2.1	3.2	2.4	5.7	73	75	8.8	2.0	8.0	3.9	1.6
4	2.7	2.1	8.0	2.4	4.3	70	72	5.9	2.1	8.0	3.9	1.6
5	2.6	2.0	19	2.4	3.9	69	69	6.2	2.1	7.1	3.7	1.6
6	2.0	2.0	5.7	2.4	3.7	66	68	5.4	2.2	6.8	3.7	1.5
7	2.0	2.0	11	2.4	3.9	66	63	3.4	2.4	6.8	3.7	1.5
8	2.0	2.0	6.1	2.4	3.9	78	61	2.9	2.5	6.4	3.7	1.5
9	2.0	2.0	4.6	2.4	6.8	70	58	2.9	2.1	6.4	3.7	1.5
10	2.0	2.0	4.3	5.6	7.1	60	58	2.7	2.1	6.4	3.7	1.5
11	2.0	2.0	3.2	3.4	5.7	55	58	2.9	2.1	6.4	3.7	1.5
12	2.1	2.0	2.5	2.7	5.3	56	57	2.9	2.0	6.1	3.7	1.5
13	2.1	2.0	2.4	2.5	5.7	72	54	8.2	2.0	5.7	3.7	1.4
14	2.1	3.8	2.4	4.0	5.7	70	50	14	2.9	5.7	3.7	1.4
15	2.0	3.0	2.4	25	5.0	56	45	8.0	4.3	5.7	3.7	1.4
16	2.0	2.9	2.4	14	6.4	62	40	5.2	3.7	5.7	3.7	1.2
17	2.0	2.7	2.4	8.4	22	62	38	5.3	3.0	5.7	3.7	1.1
18	2.0	3.0	2.4	6.4	16	51	36	4.6	3.0	5.7	3.7	1.0
19	2.0	10	2.4	5.3	53	47	33	2.5	4.0	5.7	10	1.0
20	2.0	3.9	2.4	3.9	195	43	32	2.4	5.0	5.0	6.1	1.2
21	2.0	3.2	2.4	3.7	223	43	29	2.4	5.0	4.6	3.9	1.1
22	2.0	3.0	2.4	3.7	208	42	27	2.5	5.0	4.6	3.7	1.0
23	2.0	3.0	2.2	3.7	208	43	26	2.9	4.6	4.6	3.7	.93
24	2.0	2.9	2.4	3.7	182	44	24	2.7	4.6	4.6	3.6	.86
25	2.0	2.7	2.4	3.6	154	50	21	2.5	4.6	4.6	3.4	.86
26	2.0	2.7	2.4	3.6	130	55	22	2.5	4.3	4.6	3.4	.86
27	2.1	2.9	2.5	3.6	116	52	19	2.4	4.3	4.3	3.4	.86
28	2.1	2.7	2.5	3.4	101	52	15	2.2	4.3	4.3	2.6	.86
29	2.1	3.3	2.4	3.6	92	58	14	2.2	4.3	4.3	1.7	.86
30	2.2	3.2	2.4	3.2	---	68	14	2.2	4.3	4.3	1.7	.86
31	2.1	---	2.4	5.3	---	72	---	2.1	---	4.6	1.7	---
TOTAL	74.1	85.3	119.1	143.9	1780.8	1863	1346	144.8	99.0	173.0	117.0	37.25
MEAN	2.39	2.84	3.84	4.64	61.4	60.1	44.9	4.67	3.30	5.58	3.77	1.24
MAX	7.7	10	19	25	223	82	84	14	5.0	8.0	10	1.6
MIN	2.0	2.0	2.2	2.4	3.4	42	14	2.1	2.0	4.3	1.7	.86
AC-FT	147	169	236	285	3530	3700	2670	287	196	343	232	74

CAL YR 1967 TOTAL 14692.60 MEAN 40.3 MAX 304 MIN 1.1 AC-FT 29140
WTR YR 1968 TOTAL 5983.25 MEAN 16.3 MAX 223 MIN .86 AC-FT 11870

11433040 PILOT CREEK BELOW MUTTON CANYON, NEAR GEORGETOWN, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.86	4.3	2.0	2.2	153	80	147	143	23	5.2	8.4	7.2
2	.86	8.0	1.6	2.1	130	70	163	141	22	3.7	8.8	6.8
3	.80	16	1.6	2.1	116	69	169	135	20	3.1	8.8	8.0
4	.66	8.0	1.6	2.1	106	61	151	130	19	5.7	8.4	8.8
5	.73	5.3	5.2	2.1	111	56	213	125	18	12	8.8	8.8
6	.80	3.9	6.8	2.1	114	55	211	130	16	11	9.2	8.8
7	.86	3.7	5.0	2.1	91	51	178	135	15	11	8.8	9.2
8	.80	3.7	5.3	2.1	81	48	165	139	15	12	8.8	9.2
9	.80	3.7	5.3	2.1	79	48	154	144	14	13	8.8	8.8
10	.80	3.7	11	2.0	72	48	144	146	14	13	8.8	8.8
11	.80	3.7	11	3.0	87	45	144	141	18	13	8.4	8.8
12	1.5	8.8	4.3	4.6	110	43	151	136	20	13	8.4	8.8
13	1.4	3.7	2.0	34	91	45	156	128	16	12	8.0	8.8
14	1.5	5.0	2.5	28	98	41	156	120	14	12	7.6	8.8
15	4.0	6.8	7.8	14	147	40	147	110	12	12	8.0	8.8
16	6.4	5.7	3.4	9.8	135	38	143	104	17	12	7.6	8.8
17	4.0	5.0	2.4	7.1	116	43	143	100	18	12	8.0	8.8
18	4.8	6.4	2.1	12	113	45	156	97	15	12	7.6	8.8
19	6.8	5.7	2.0	107	110	45	153	91	11	12	7.6	8.8
20	5.3	4.3	1.8	185	109	53	156	85	8.4	12	7.6	8.8
21	5.3	3.0	1.7	990	104	66	162	80	6.8	11	7.6	8.8
22	5.3	2.9	1.7	1010	93	54	174	76	6.0	11	7.6	8.0
23	5.3	2.7	1.7	488	103	53	214	73	5.6	12	7.6	7.2
24	5.3	4.3	8.2	364	104	59	185	56	5.6	12	7.6	6.8
25	7.1	3.2	11	575	101	61	160	42	4.6	12	7.2	7.6
26	8.0	2.0	3.9	845	93	65	147	39	3.7	9.6	7.6	8.4
27	8.0	1.7	2.9	499	76	74	139	38	2.8	8.8	7.6	8.4
28	8.0	1.6	3.0	359	80	84	138	34	1.8	8.8	7.2	8.4
29	7.5	1.5	2.9	252	---	96	143	31	5.2	8.4	7.2	8.4
30	5.7	1.7	2.4	207	---	116	144	30	8.0	8.4	7.2	8.4
31	4.6	---	2.2	169	---	136	---	27	---	8.0	7.2	---
TOTAL	114.57	140.0	126.3	6183.5	2923	1888	4806	3006	375.5	321.7	248.0	252.8
MEAN	3.70	4.67	4.07	199	104	60.9	160	97.0	12.5	10.4	8.00	8.43
MAX	8.0	16	11	1010	153	136	214	146	23	13	9.2	9.2
MIN	.66	1.5	1.6	2.0	72	38	138	27	1.8	3.1	7.2	6.8
AC-FT	227	278	251	12260	5800	3740	9530	5960	745	638	492	501

CAL YR 1968 TOTAL 6085.87 MEAN 16.6 MAX 223 MIN .66 AC-FT 12070
WTR YR 1969 TOTAL 20385.37 MEAN 55.9 MAX 1010 MIN .66 AC-FT 40430

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	1.4	8.4	8.0	198	144	48	19	8.4	4.5	1.9	2.3
2	5.2	1.4	8.4	7.2	173	106	47	18	8.5	4.4	2.0	2.5
3	5.2	1.4	8.4	6.8	156	87	36	17	9.1	4.2	1.8	2.4
4	5.6	1.4	8.4	6.4	144	88	21	16	9.0	4.1	1.6	2.4
5	5.6	4.7	8.4	6.0	131	86	20	9.1	8.9	4.1	1.3	2.5
6	4.9	13	8.4	6.0	121	81	18	5.5	8.0	3.9	1.3	2.4
7	4.9	12	8.4	5.6	114	80	17	5.1	7.2	4.5	1.2	2.4
8	6.4	11	9.2	6.0	105	96	16	5.3	8.6	5.2	1.3	2.5
9	4.0	9.6	9.6	16	101	87	15	5.9	11	5.2	1.6	2.7
10	2.6	9.2	11	33	94	90	15	5.9	8.8	5.1	1.5	2.7
11	4.6	9.2	14	16	93	82	14	4.5	8.1	5.1	1.5	2.7
12	2.6	8.8	5.0	18	100	80	13	3.5	7.9	5.0	1.4	2.7
13	1.3	8.8	5.2	26	109	79	18	3.4	7.8	4.2	1.4	2.8
14	1.4	8.8	2.4	84	107	80	24	3.5	7.8	3.9	1.4	2.8
15	10	8.8	2.2	217	92	81	17	3.1	7.6	3.6	1.4	2.8
16	16	9.6	2.0	811	90	80	28	3.0	7.4	3.5	1.4	1.9
17	16	9.2	2.0	1040	137	79	39	3.0	7.2	3.5	1.4	.97
18	14	8.8	1.8	587	106	76	38	3.0	7.0	3.5	1.9	.96
19	13	8.8	12	392	94	73	48	3.0	6.8	3.5	2.4	1.0
20	12	8.8	38	335	88	71	40	5.2	6.7	3.3	2.4	1.0
21	12	8.8	46	881	83	69	36	5.7	6.5	3.2	2.4	.98
22	6.1	8.8	16	946	80	68	36	4.5	6.4	3.3	2.4	.95
23	1.5	8.4	20	485	76	66	34	3.8	5.8	3.3	2.3	.95
24	1.5	8.4	79	506	73	64	33	3.3	4.8	3.2	2.9	.96
25	1.5	8.4	44	360	70	63	32	3.1	4.8	3.2	2.5	.93
26	1.4	8.4	24	295	69	61	38	5.9	5.0	3.2	1.7	.93
27	1.4	8.4	16	431	68	57	39	9.0	5.0	3.0	1.7	.91
28	1.4	8.4	12	342	72	55	35	8.9	5.1	2.5	1.6	.90
29	1.4	8.4	10	288	---	54	21	8.9	5.0	2.0	1.7	.88
30	1.4	8.4	9.6	255	---	53	21	8.7	4.7	2.0	1.7	.87
31	1.4	---	8.8	224	---	51	---	8.5	---	1.9	1.8	---
TOTAL	173.1	239.5	458.6	8640.0	2944	2387	857	212.3	214.9	115.1	54.8	53.69
MEAN	5.58	7.98	14.8	279	105	77.0	28.6	6.85	7.16	3.71	1.77	1.79
MAX	16	13	79	1040	198	144	48	19	11	5.2	2.9	2.8
MIN	1.3	1.4	1.8	5.6	68	51	13	3.0	4.7	1.9	1.2	.87
AC-FT	343	475	910	17140	5840	4730	1700	421	426	228	109	106

CAL YR 1969 TOTAL 20875.70 MEAN 57.2 MAX 1010 MIN 1.3 AC-FT 41410
WTR YR 1970 TOTAL 16349.99 MEAN 44.8 MAX 1040 MIN .87 AC-FT 32430

11433060 SOUTH FORK LONG CANYON CREEK DIVERSION TUNNEL NEAR VOLCANOVILLE, CALIF.

LOCATION.--Lat 39°03'04", long 120°28'14", in SW¼NE¼ sec.24, T.14 N., R.13 E., Placer County, Eldorado National Forest, on right bank at diversion dam, 3.3 miles upstream from confluence with North Fork and 17.2 miles east of Volcanoville.

PERIOD OF RECORD.--October 1965 to September 1970.

GAGE.--Water-stage recorder and sharp-crested weir. Altitude of gage is 4,630 ft (from topographic map).

AVERAGE DISCHARGE.--5 years, 8.41 cfs (6,090 acre-ft per year).

EXTREMES.--Period of record: Maximum daily discharge, 166 cfs Apr. 18, 1969; no flow for part of each year.

REMARKS.--Records good. Tunnel completed in September 1965; diversion began in February 1966. Flow is diverted from South Fork Long Canyon Creek to a tunnel from Hell Hole Reservoir to Middle Fork powerplant on Middle Fork American River. See schematic diagram of Middle Fork American and Rubicon River basins elsewhere in this report.

COOPERATION.--Recorder chart and three discharge measurements furnished by Placer County Water Agency in connection with a Federal Power Commission project.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	.60	44	28				
2					0	.60	50	28				
3					0	0	50	28				
4					0	0	51	28				
5					0	0	50	28				
6					0	0	49	27				
7					0	.80	49	27				
8					0	2.6	49	27				
9					0	3.6	50	28				
10					0	13	83	36				
11					0	18	74	27				
12					0	16	62	22				
13					0	21	53	20				
14					0	24	47	20				
15					0	23	47	20				
16					0	19	47	19				
17					0	15	44	18				
18					0	15	45	14				
19					0	16	41	12				
20					0	16	35	12				
21					0	16	32	11				
22					0	17	30	7.6				
23					0	18	29	5.0				
24					.40	19	28	3.6				
25					.60	21	28	3.0				
26					.80	22	28	2.8				
27					.80	24	28	1.5				
28					.80	29	28	0				
29					---	32	28	0				
30					---	36	28	0				
31		---			---	39	---	0	---			---
TOTAL	0	0	0	0	3.40	477.20	1307	503.5	0	0	0	0
MEAN	0	0	0	0	.12	15.4	43.6	16.2	0	0	0	0
MAX	0	0	0	0	.80	39	83	36	0	0	0	0
MIN	0	0	0	0	0	0	28	0	0	0	0	0
AC-FT	0	0	0	0	6.7	947	2590	999	0	0	0	0

WTR YR 1966 TOTAL 2291.10 MEAN 6.28 MAX 83 MIN 0 AC-FT 4540

11433060 SOUTH FORK LONG CANYON CREEK DIVERSION TUNNEL NEAR VOLCANOVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	6.2	26	19	32	16	70	0		
2			27	5.8	24	20	30	19	64	0		
3			23	5.8	23	20	28	24	62	0		
4			7.6	5.8	22	18	28	24	62	0		
5			35	5.6	22	17	26	25	72	0		
6			45	5.0	22	17	26	35	67	0		
7			33	5.0	22	17	26	51	67	0		
8			20	5.0	22	17	26	74	74	0		
9			15	5.0	22	18	27	81	71	0		
10			18	5.0	22	18	26	76	69	2.5		
11			18	5.2	21	17	24	56	69	5.0		
12			15	5.8	22	16	24	50	69	3.8		
13			14	3.6	22	15	25	50	79	3.0		
14			14	0	21	17	25	63	65	2.3		
15			12	0	21	18	24	92	65	1.7		
16			12	0	24	31	22	117	69	1.3		
17			12	0	26	9.6	22	122	67	.60		
18			11	0	26	7.6	22	109	62	.20		
19			11	0	24	7.2	21	100	60	0		
20			11	0	23	7.2	20	71	57	0		
21			11	0	22	7.2	20	28	59	0		
22			9.6	0	22	7.2	19	20	26	0		
23			9.2	0	20	7.6	18	18	0	0		
24			8.8	0	20	7.6	18	14	0	0		
25			8.2	0	20	7.6	18	12	0	0		
26			7.6	0	19	7.6	18	74	0	0		
27			7.2	0	18	7.6	18	114	0	0		
28			6.8	0	19	7.6	16	99	0	0		
29			6.5	0	---	7.6	16	87	0	0		
30			6.5	15	---	22	15	77	0	0		
31		---	6.2	30	---	34	---	74	---	0		---
TOTAL	0	0	441.2	113.8	617	450.2	680	1872	1425	20.40	0	0
MEAN	0	0	14.2	3.67	22.0	14.5	22.7	60.4	47.5	.66	0	0
MAX	0	0	45	30	26	34	32	122	79	5.0	0	0
MIN	0	0	0	0	18	7.2	15	12	0	0	0	0
AC-FT	0	0	875	226	1220	893	1350	3710	2830	40	0	0

CAL YR 1966 TOTAL 2732.30 MEAN 7.49 MAX 83 MIN 0 AC-FT 5420
WTR YR 1967 TOTAL 5619.60 MEAN 15.4 MAX 122 MIN 0 AC-FT 11150

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0		0	0	1.9	35	35	18	4.4			
2	.71		0	0	3.0	32	30	18	4.0			
3	.08		0	0	7.6	30	28	18	3.8			
4	0		0	0	6.2	30	28	18	3.3			
5	0		1.6	0	6.2	30	27	18	3.6			
6	0		0	0	6.5	27	26	17	4.0			
7	0		0	0	7.6	26	25	15	3.3			
8	0		0	0	7.6	26	25	15	3.0			
9	0		0	0	10	25	25	14	2.1			
10	0		0	0	9.6	24	27	13	1.2			
11	0		0	0	8.8	22	28	13	0			
12	0		0	0	8.8	21	26	13	0			
13	0		0	0	8.5	20	24	13	0			
14	0		0	.18	7.6	20	24	13	0			
15	0		0	28	7.2	20	24	13	0			
16	0		0	14	8.2	22	22	12	0			
17	0		0	6.5	34	20	20	11	0			
18	0		0	4.4	28	18	20	9.9	0			
19	0		0	3.3	38	18	18	9.9	0			
20	0		0	2.8	18	18	18	9.9	0			
21	0		0	3.0	14	19	17	9.9	0			
22	0		0	5.2	12	20	16	9.6	0			
23	0		0	5.2	50	22	16	9.2	0			
24	0		0	4.6	67	22	16	8.2	0			
25	0		0	4.0	51	26	16	8.2	0			
26	0		.20	3.0	46	26	16	7.6	0			
27	0		.29	2.8	44	25	16	7.2	0			
28	0		0	2.1	41	28	16	6.5	0			
29	0		0	1.7	37	32	18	6.2	0			
30	0		0	.14	---	34	18	5.8	0			
31	0	---	0	1.7	---	33	---	5.2	---			---
TOTAL	.79	0	2.09	92.62	595.3	771	665	365.3	32.7	0	0	0
MEAN	.026	0	.067	2.99	20.5	24.9	22.2	11.8	1.09	0	0	0
MAX	.71	0	1.6	28	67	35	35	18	4.4	0	0	0
MIN	0	0	0	0	1.9	18	16	5.2	0	0	0	0
AC-FT	1.6	0	4.1	184	1180	1530	1320	725	65	0	0	0

CAL YR 1967 TOTAL 5181.28 MEAN 14.2 MAX 122 MIN 0 AC-FT 10280
WTR YR 1968 TOTAL 2524.80 MEAN 6.90 MAX 67 MIN 0 AC-FT 5010

11433060 SOUTH FORK LONG CANYON CREEK DIVERSION TUNNEL NEAR VOLCANOVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	.65	.80	2.1	0	84	50	3.3		
2			0	1.1	.80	2.1	0	80	47	2.6		
3			0	1.5	.80	2.1	0	47	45	2.1		
4			0	3.0	.80	2.1	0	35	44	1.7		
5			0	5.0	.80	2.1	0	37	41	.89		
6			0	5.6	.80	2.1	0	33	36	.38		
7			0	6.5	.95	.92	0	28	33	0		
8			0	5.8	.95	0	0	28	30	0		
9			0	5.0	.95	0	0	24	27	0		
10			0	4.0	.95	0	0	18	24	0		
11			0	4.6	.95	0	0	17	24	0		
12			0	5.6	.95	0	0	22	22	0		
13			0	31	2.6	0	0	58	20	0		
14			0	38	3.6	0	0	24	20	0		
15			0	24	3.3	0	42	11	24	0		
16			0	16	3.3	0	61	12	14	0		
17			0	13	3.0	0	121	0	0	0		
18			0	18	2.8	0	166	0	0	0		
19			0	32	2.8	0	130	0	0	0		
20			.05	21	2.8	0	89	0	0	0		
21			.05	3.8	2.8	0	35	0	0	0		
22			0	1.5	2.6	0	23	40	0	0		
23			0	1.1	2.8	0	21	69	4.2	0		
24			5.0	1.1	2.6	0	19	68	9.2	0		
25			3.3	2.6	2.8	0	18	64	8.5	0		
26			2.1	1.7	2.6	0	16	60	7.6	0		
27			1.5	.95	2.3	0	16	55	6.2	0		
28			1.1	.80	2.3	0	16	51	5.2	0		
29			.95	.80	---	0	16	50	4.6	0		
30			.65	.80	---	0	56	51	3.8	0		
31		---	.50	.80	---	0	---	52	---	0		---
TOTAL	0	0	15.20	257.30	55.50	13.52	845	1118	550.3	10.97	0	0
MEAN	0	0	.49	8.30	1.98	.44	28.2	36.1	18.3	.35	0	0
MAX	0	0	5.0	38	3.6	2.1	166	84	50	3.3	0	0
MIN	0	0	0	.65	.80	0	0	0	0	0	0	0
AC-FT	0	0	30	510	110	27	1680	2220	1090	22	0	0

CAL YR 1968 TOTAL 2537.10 MEAN 6.93 MAX 67 MIN 0 AC-FT 5030
WTR YR 1969 TOTAL 2865.79 MEAN 7.85 MAX 166 MIN 0 AC-FT 5680

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	6.5	26	11	7.6	7.2	5.0			
2	0	0	0	4.6	23	9.2	7.6	6.8	4.6			
3	0	0	0	3.6	21	6.8	3.0	7.2	3.8			
4	0	0	0	2.8	19	3.1	.95	7.9	3.3			
5	0	.06	0	1.9	16	.98	1.5	8.2	2.6			
6	0	.08	0	1.3	14	1.7	1.0	8.5	2.1			
7	0	0	0	1.3	12	2.6	.20	8.8	1.9			
8	0	0	0	2.1	11	5.0	.50	9.9	2.3			
9	0	0	0	28	9.6	12	.65	12	6.2			
10	0	0	0	37	9.2	13	5.2	11	3.6			
11	0	0	0	25	8.5	11	9.6	11	2.6			
12	0	0	0	39	12	13	8.8	10	2.1			
13	0	0	0	55	11	18	9.6	9.9	1.9			
14	0	0	0	46	9.9	24	9.2	9.9	1.7			
15	0	0	0	18	10	22	9.6	11	1.5			
16	.04	0	0	5.6	11	20	9.6	12	1.1			
17	.04	0	0	.95	15	20	9.2	13	.65			
18	0	0	0	1.1	11	16	8.8	16	.27			
19	0	0	6.4	20	8.8	14	11	16	0			
20	0	0	40	45	7.6	12	9.2	15	0			
21	0	0	45	12	7.2	12	8.2	14	0			
22	0	0	20	.80	6.8	12	7.9	12	0			
23	0	0	25	24	7.2	12	7.2	12	0			
24	0	0	51	8.5	6.8	13	6.5	11	0			
25	0	0	35	6.2	6.5	12	6.2	11	0			
26	0	0	30	5.8	6.5	11	7.2	10	0			
27	0	0	23	2.8	6.8	11	6.5	9.6	0			
28	0	0	16	0	9.2	9.9	6.2	8.5	0			
29	0	0	12	23	---	9.9	6.5	7.9	0			
30	0	0	9.9	35	---	9.2	7.2	6.8	0			
31	0	---	7.9	31	---	8.2	---	5.8	---			---
TOTAL	.08	.14	321.2	493.85	322.6	355.58	192.40	319.9	47.22	0	0	0
MEAN	.003	.005	10.4	15.9	11.5	11.5	6.41	10.3	1.57	0	0	0
MAX	.04	.08	51	55	26	24	11	16	6.2	0	0	0
MIN	0	0	0	0	6.5	.98	.20	5.8	0	0	0	0
AC-FT	.2	.3	637	980	640	705	382	635	94	0	0	0

CAL YR 1969 TOTAL 3172.42 MEAN 8.69 MAX 166 MIN 0 AC-FT 6290
WTR YR 1970 TOTAL 2052.97 MEAN 5.62 MAX 55 MIN 0 AC-FT 4070

11433080 NORTH FORK LONG CANYON CREEK DIVERSION TUNNEL NEAR VOLCANOVILLE, CALIF.

LOCATION.--Lat 39°02'57", long 120°28'56", in SW¼NW¼ sec.24, T.14 N., R.13 E., Placer County, Eldorado National Forest, on left bank at diversion dam, 3.2 miles upstream from confluence with South Fork and 16.9 miles east of Volcanoville.

PERIOD OF RECORD.--October 1965 to September 1970.

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is 4,700 ft (from topographic map).

AVERAGE DISCHARGE.--5 years, 3.42 cfs (2,480 acre-ft per year).

EXTREMES.--Period of record: Maximum daily discharge, 54 cfs May 27, 1967; no flow for part of each year.

REMARKS.--Records good. No regulation or diversion above station. Tunnel completed in September 1965 and diversions began in February 1966. Flow is diverted from North Fork Long Canyon Creek to a tunnel from Hell Hole Reservoir to Middle Fork powerplant on Middle Fork American River. See schematic diagram of Middle Fork American and Rubicon River basins elsewhere in this report.

COOPERATION.--Gage-height record and three discharge measurements furnished by Placer County Water Agency in connection with a Federal Power Commission project.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	0	22	8.3				
2					0	0	20	7.9				
3					0	0	19	7.9				
4					0	0	18	7.7				
5					0	0	21	7.3				
6					0	0	21	6.4				
7					0	1.3	20	5.9				
8					0	3.6	18	5.9				
9					0	8.1	15	5.9				
10					0	23	28	7.7				
11					0	11	18	5.4				
12					0	9.5	19	4.4				
13					0	21	18	3.8				
14					0	16	16	3.6				
15					0	11	16	3.3				
16					0	6.4	16	2.8				
17					0	4.4	17	2.2				
18					0	3.9	13	1.3				
19					0	3.9	9.5	1.1				
20					0	3.5	8.1	.10				
21					0	3.5	7.5	0				
22					0	3.8	6.6	0				
23					.30	5.7	6.2	0				
24					0	8.1	6.4	0				
25					0	10	6.6	0				
26					0	13	6.0	0				
27					0	17	4.7	0				
28					0	20	6.6	0				
29					---	21	9.7	0				
30					---	21	8.9	0				
31		---			---	22	---	0	---			---
TOTAL	0	0	0	0	.30	271.7	421.8	98.90	0	0	0	0
MEAN	0	0	0	0	.011	8.76	14.1	3.19	0	0	0	0
MAX	0	0	0	0	.30	23	28	8.3	0	0	0	0
MIN	0	0	0	0	0	0	4.7	0	0	0	0	0
AC-FT	0	0	0	0	.6	539	837	196	0	0	0	0

WTR YR 1966 TOTAL 792.70 MEAN 2.17 MAX 28 MIN 0 AC-FT 1570

11433080 NORTH FORK LONG CANYON CREEK DIVERSION TUNNEL NEAR VOLCANOVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	1.8	2.0	10	14	6.6	29			
2			13	1.7	2.0	11	13	9.5	25			
3			15	1.6	2.2	10	13	14	25			
4			8.1	1.7	2.2	6.8	12	14	28			
5			14	1.6	2.3	6.4	11	14	43			
6			8.5	1.3	2.3	6.6	11	23	36			
7			6.4	1.2	2.4	9.1	11	34	33			
8			6.8	1.1	2.4	9.5	11	36	31			
9			6.8	1.1	2.4	9.7	12	38	30			
10			7.2	1.1	2.4	9.5	12	38	28			
11			7.5	1.3	2.5	8.3	11	28	28			
12			7.5	2.0	2.5	7.7	11	25	29			
13			6.8	1.0	2.6	7.3	13	28	35			
14			7.0	0	2.6	6.8	13	34	28			
15			6.6	0	2.6	7.3	11	40	26			
16			6.6	0	8.3	6.7	10	28	25			
17			6.4	0	14	1.7	10	18	24			
18			6.4	0	14	1.4	11	15	22			
19			6.4	0	13	1.5	8.9	14	19			
20			5.9	0	12	1.6	8.1	13	17			
21			5.2	0	11	1.7	7.9	11	15			
22			4.9	0	11	1.7	7.5	9.7	7.0			
23			4.4	0	11	1.7	7.3	8.9	.20			
24			3.9	0	9.7	1.7	7.0	8.5	0			
25			3.5	0	9.1	1.7	6.6	8.7	0			
26			2.9	0	8.7	1.8	6.6	41	0			
27			2.5	0	9.1	1.8	6.6	54	0			
28			2.2	23	10	1.9	6.2	48	0			
29			2.2	12	---	1.9	5.9	43	0			
30			2.0	2.4	---	9.4	5.9	38	0			
31		---	1.9	2.0	---	16	---	35	---			---
TOTAL	0	0	188.5	57.9	176.3	180.2	294.5	775.9	583.20	0	0	0
MEAN	0	0	6.08	1.87	6.30	5.81	9.82	25.0	19.4	0	0	0
MAX	0	0	15	23	14	16	14	54	43	0	0	0
MIN	0	0	0	0	2.0	1.4	5.9	6.6	0	0	0	0
AC-FT	0	0	374	115	350	357	584	1540	1160	0	0	0

CAL YR 1966 TOTAL 981.20 MEAN 2.69 MAX 28 MIN 0 AC-FT 1950
WTR YR 1967 TOTAL 2256.50 MEAN 6.18 MAX 54 MIN 0 AC-FT 4480

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0		0	0	.77	16	20	8.3				
2	.34		0	0	2.7	14	17	7.7				
3	.19		0	0	5.6	14	16	7.5				
4	0		0	0	2.6	13	16	7.0				
5	0		.93	0	2.2	12	15	6.4				
6	0		0	0	2.8	11	14	5.9				
7	0		0	0	2.9	10	14	5.2				
8	0		0	0	2.8	9.7	14	4.9				
9	0		0	0	4.5	9.5	15	4.5				
10	0		0	0	3.8	9.3	16	4.2				
11	0		0	0	2.8	8.3	17	3.9				
12	0		0	0	2.9	7.5	15	3.9				
13	0		0	0	2.9	7.0	14	4.1				
14	0		0	.95	1.9	6.4	14	5.0				
15	0		0	7.4	1.5	6.4	14	5.2				
16	0		0	2.3	1.6	7.0	13	4.7				
17	0		0	.44	22	5.9	11	3.9				
18	0		0	0	13	5.5	11	3.5				
19	0		0	0	12	5.2	10	3.2				
20	0		0	.40	1.1	5.7	10	3.1				
21	0		0	1.6	1.2	6.8	9.3	2.9				
22	0		0	3.5	3.2	7.5	8.5	2.8				
23	0		0	3.6	44	8.9	8.5	2.8				
24	0		.13	3.2	39	10	8.5	2.5				
25	0		1.6	2.6	28	12	8.7	2.6				
26	0		2.7	2.2	25	14	9.1	2.3				
27	0		2.6	1.6	23	16	8.7	2.0				
28	0		.90	1.2	20	19	8.7	1.9				
29	0		.07	.77	18	22	8.9	1.7				
30	0		0	.60	---	23	8.7	.53				
31	0	---	0	1.5	---	22	---	0	---			---
TOTAL	.53	0	8.93	33.86	293.77	344.6	373.6	124.13	0	0	0	0
MEAN	.017	0	.29	1.09	10.1	11.1	12.5	4.00	0	0	0	0
MAX	.34	0	2.7	7.4	44	23	20	8.3	0	0	0	0
MIN	0	0	0	0	.77	5.2	8.5	0	0	0	0	0
AC-FT	1.1	0	18	67	583	684	741	246	0	0	0	0

CAL YR 1967 TOTAL 2077.46 MEAN 5.69 MAX 54 MIN 0 AC-FT 4120
WTR YR 1968 TOTAL 1179.42 MEAN 3.22 MAX 44 MIN 0 AC-FT 2340

11433080 NORTH FORK LONG CANYON CREEK DIVERSION TUNNEL NEAR VOLCANOVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	0	0	.96	.86	0	34	9.7			
2		0	0	0	.86	.86	0	35	8.5			
3		2.4	0	.06	.86	.86	0	33	7.5			
4		1.0	0	1.7	.77	.86	0	35	6.4			
5		0	0	2.5	.68	.86	0	37	5.2			
6		0	0	3.6	.86	.86	0	40	4.2			
7		0	0	3.9	.77	.43	0	43	3.6			
8		0	0	2.9	.77	0	0	45	3.2			
9		0	0	2.0	.68	0	0	44	2.6			
10		0	3.5	1.3	.68	0	0	39	2.2			
11		0	3.8	1.1	.68	0	0	30	2.8			
12		2.3	.41	1.2	.68	0	0	23	2.4			
13		.05	.01	15	.77	0	0	42	1.8			
14		0	0	15	.77	0	0	47	1.1			
15		0	.35	10	.77	0	12	42	.44			
16		.06	.14	4.9	.86	0	29	40	0			
17		.20	0	3.1	.96	0	27	42	0			
18		4.6	0	5.0	.96	0	25	39	0			
19		1.6	0	1.9	.96	0	32	33	0			
20		.02	0	.26	.86	0	32	28	0			
21		0	0	.26	.86	0	30	27	0			
22		0	0	.16	.86	0	26	26	0			
23		0	0	.16	.96	0	26	26	0			
24		0	.26	.12	.86	0	25	23	0			
25		0	.08	3.9	.86	0	25	20	0			
26		0	0	1.2	.86	0	25	18	0			
27		0	0	.32	.86	0	25	18	0			
28		0	0	.32	.86	0	25	16	0			
29		0	0	.38	---	0	25	14	0			
30		0	0	.66	---	0	33	13	0			
31		---	0	1.1	---	0	---	12	---			---
TOTAL	0	12.23	8.55	84.00	23.14	5.59	422	964	61.64	0	0	0
MEAN	0	.41	.28	2.71	.83	.18	14.1	31.1	2.05	0	0	0
MAX	0	4.6	3.8	15	.96	.86	33	47	9.7	0	0	0
MIN	0	0	0	0	.68	0	0	12	0	0	0	0
AC-FT	0	24	17	167	46	11	837	1910	122	0	0	0

CAL YR 1968 TOTAL 1190.78 MEAN 3.25 MAX 44 MIN 0 AC-FT 2360
WTR YR 1969 TOTAL 1581.15 MEAN 4.33 MAX 47 MIN 0 AC-FT 3140

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0		0	.21	11	3.1	2.4	3.6	.21	.08		
2	0		0	.08	9.7	1.8	1.1	3.1	.21	.08		
3	0		0	.05	8.5	1.2	1.1	2.9	.21	.08		
4	0		0	.05	7.5	.96	2.0	2.8	.16	.12		
5	0		0	.05	6.2	1.3	2.3	2.5	.16	.12		
6	0		0	.05	5.4	1.8	2.6	2.3	.16	.16		
7	0		0	0	4.7	1.8	2.5	1.9	.16	.16		
8	0		0	.22	4.2	2.0	2.5	2.3	.38	.21		
9	0		0	7.3	3.5	1.4	2.5	2.6	1.8	.21		
10	0		0	3.1	2.8	.96	2.5	2.3	.68	.11		
11	0		0	3.1	2.6	.86	2.3	1.7	.32	0		
12	0		0	2.4	4.5	2.2	1.8	1.4	.21	0		
13	0		0	2.3	3.8	4.9	1.7	1.4	.16	0		
14	0		0	1.2	3.3	8.5	1.6	1.2	.21	0		
15	.46		0	.77	3.6	7.3	1.8	.86	.16	0		
16	1.5		0	.32	3.5	6.8	1.9	.77	.16	0		
17	.32		0	.16	5.0	5.5	2.2	.60	.16	0		
18	.08		0	.12	3.1	3.2	2.2	.60	.16	0		
19	.05		8.9	.16	2.3	2.0	4.1	.86	.12	0		
20	.05		7.4	5.8	1.9	1.7	2.5	.60	.12	0		
21	.05		2.9	3.9	1.8	1.7	1.9	.45	.12	0		
22	.05		3.8	.52	2.0	1.9	1.6	.32	.12	0		
23	.05		10	7.2	2.2	2.3	1.3	.26	.12	0		
24	.05		4.4	0	1.9	2.6	1.3	.21	.12	0		
25	.05		2.5	0	2.0	2.3	1.5	.21	.12	0		
26	.05		2.0	0	2.2	1.5	1.5	.16	.12	0		
27	.02		1.9	0	1.9	.60	1.3	.16	.12	0		
28	.02		1.8	0	2.6	.60	1.5	.12	.12	0		
29	.02		1.1	9.2	---	.38	3.4	.16	.08	0		
30	.01		.60	18	---	.21	4.5	.26	.08	0		
31	.01	---	.32	14	---	1.3	---	.26	---	0		---
TOTAL	2.84	0	47.62	80.26	113.7	74.67	63.4	38.86	7.03	1.33	0	0
MEAN	.092	0	1.54	2.59	4.06	2.41	2.11	1.25	.23	.043	0	0
MAX	1.5	0	10	18	11	8.5	4.5	3.6	1.8	.21	0	0
MIN	0	0	0	0	1.8	.21	1.1	.12	.08	0	0	0
AC-FT	5.6	0	94	159	226	148	126	77	14	2.6	0	0

CAL YR 1969 TOTAL 1612.16 MEAN 4.42 MAX 47 MIN 0 AC-FT 3200
WTR YR 1970 TOTAL 429.71 MEAN 1.18 MAX 18 MIN 0 AC-FT 852

11433100 LONG CANYON CREEK NEAR FRENCH MEADOWS, CALIF.

LOCATION.--Lat 39°01'16", long 120°30'53", in SE¼NW¼ sec.34, T.14 N., R.13 E., Placer County, Eldorado National Forest, on right bank 75 ft downstream from North Fork, 6.5 miles south of French Meadows, and 18 miles east of Foresthill.

DRAINAGE AREA.--18.0 sq mi.

PERIOD OF RECORD.--August 1960 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 4,100 ft (from topographic map).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Nov. 18, 1965	107	4.77	Aug. 9, 1966	.40
1967	Jan. 29, 1967	513	6.32	Oct. 29-31, Nov. 9-14, 1966	.60
1968	Feb. 19, 1968	590	6.51	Sept.27, 28, 1968	.08
1969	Jan. 21, 1969	1,610	8.20	Oct. 9, 10, 1968	.44
1970	Jan. 21, 1970	2,410	9.16	Sept.30, 1970	.65

Period of record: Maximum discharge, 4,690 cfs Dec. 23, 1964 (gage height, 11.20 ft), from rating curve extended above 300 cfs on basis of slope-area measurements at gage heights 6.62 and 10.27 ft; minimum daily, 0.08 cfs Sept. 27, 28, 1968.

REMARKS.--Records good except those for period of indefinite stage-discharge relation Jan. 22 to May 22, 1970, which are fair. Water is diverted above station to a diversion tunnel from Hell Hole Reservoir to Middle Fork American River powerplant via South Fork and North Fork Long Canyon diversion tunnels (see stations 11433060, 11433080); diversions began in February 1966. See schematic diagram of Middle Fork American and Rubicon River basins elsewhere in this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	5.6	9.5	4.2	8.6	15	59	13	10	12	.60	.80
2	5.1	4.7	9.8	4.1	8.3	15	56	13	9.5	12	.60	.80
3	5.1	4.6	10	3.9	8.1	14	52	12	14	11	.50	.90
4	5.0	4.6	11	4.0	7.8	13	49	12	20	11	.50	.90
5	5.0	4.1	10	6.3	11	13	46	12	19	11	.50	.90
6	5.1	4.6	9.8	11	13	14	43	12	11	11	.50	.90
7	5.1	4.6	9.3	16	12	20	41	12	7.4	10	.50	.80
8	5.1	5.2	8.8	16	11	23	38	12	7.2	10	.50	.70
9	5.1	4.6	8.3	14	11	29	37	12	6.6	10	.40	.80
10	5.1	5.0	8.3	12	10	52	49	14	26	10	.50	.80
11	5.1	4.6	8.1	11	9.5	44	51	12	42	9.8	.60	.80
12	5.0	4.6	8.6	9.8	9.5	41	49	12	35	9.5	.60	.90
13	4.1	5.2	8.1	9.8	9.3	55	45	11	15	10	.60	.90
14	5.8	14	7.4	11	9.3	50	40	11	29	9.3	.60	.90
15	5.9	8.6	6.3	12	9.3	46	38	10	34	9.3	.70	.90
16	5.0	7.9	6.0	13	9.3	42	35	10	18	9.3	.70	.90
17	5.1	17	6.2	12	10	37	34	10	15	9.0	.80	.90
18	5.8	70	6.0	11	11	35	33	11	15	8.8	.80	.90
19	5.1	24	6.2	11	12	35	30	12	15	8.6	.80	1.1
20	4.8	15	6.3	10	12	34	28	15	15	8.6	.80	.90
21	4.8	11	6.6	9.8	13	33	28	15	14	8.3	.70	1.0
22	4.8	8.8	6.3	9.5	15	32	26	15	13	5.4	.70	1.0
23	3.9	13	4.4	9.0	20	34	26	15	13	1.9	.70	1.0
24	4.7	16	3.0	8.8	21	36	26	15	13	1.8	.70	1.0
25	5.5	13	3.3	8.8	18	39	25	14	13	1.8	.70	1.0
26	4.7	11	3.8	8.8	16	42	25	14	12	1.3	.60	1.0
27	4.7	10	3.7	8.6	16	46	24	13	12	.70	.60	1.0
28	4.7	10	3.5	8.6	16	50	21	13	12	.60	.60	1.0
29	4.7	10	4.2	8.8	---	54	14	12	12	.60	.60	1.0
30	3.6	9.5	4.0	9.0	---	56	14	12	12	.60	.60	1.1
31	4.7	---	3.9	8.8	---	59	---	11	---	.70	.60	---
TOTAL	153.5	330.8	210.7	300.6	337.0	1108	1082	387	489.7	223.90	19.20	27.50
MEAN	4.95	11.0	6.80	9.70	12.0	35.7	36.1	12.5	16.3	7.22	.62	.92
MAX	5.9	70	11	16	21	59	59	15	42	12	.80	1.1
MIN	3.6	4.1	3.0	3.9	7.8	13	14	10	6.6	.60	.40	.70
AC-FT	304	656	418	596	668	2200	2150	768	971	444	38	55

CAL YR 1965 TOTAL 17059.70 MEAN 46.7 MAX 316 MIN 3.0 AC-FT 33840
WTR YR 1966 TOTAL 4669.90 MEAN 12.8 MAX 70 MIN .40 AC-FT 9260

11433100 LONG CANYON CREEK NEAR FRENCH MEADOWS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	.70	38	6.3	126	12	36	23	46	47	3.8	1.2
2	1.1	.70	96	6.2	88	12	34	28	41	43	3.7	1.2
3	1.1	.80	52	6.2	71	12	32	34	38	39	3.6	1.3
4	1.1	.90	22	6.0	62	12	31	39	37	35	3.4	1.8
5	1.1	.90	71	6.0	62	10	31	40	68	31	3.3	2.0
6	1.2	2.0	139	5.6	57	10	31	48	59	28	3.2	1.9
7	1.1	1.5	60	5.6	60	10	32	71	49	25	3.1	1.6
8	1.0	.80	31	5.6	56	9.5	32	101	37	22	3.0	1.5
9	1.0	.60	22	5.5	52	9.3	33	114	36	20	2.8	1.6
10	1.0	.60	25	5.5	54	10	34	144	35	18	2.8	1.6
11	1.0	.60	23	5.6	53	12	32	105	34	16	2.8	1.5
12	1.0	.60	18	5.5	56	12	32	87	33	15	2.7	1.5
13	1.0	.60	16	5.6	56	12	34	77	32	13	2.6	1.4
14	.90	.60	16	11	52	10	36	79	30	12	2.4	1.4
15	.80	1.5	14	9.3	42	12	34	105	28	11	2.5	1.4
16	.80	14	14	12	32	330	32	149	26	10	2.5	1.3
17	.80	5.0	13	12	24	367	32	193	26	9.8	2.5	1.6
18	.80	3.5	12	11	22	235	31	216	25	9.5	2.4	2.5
19	.70	3.6	12	10	20	176	29	225	25	8.6	2.6	1.5
20	.80	30	11	17	19	151	28	280	24	8.1	2.6	1.4
21	.90	15	10	134	17	147	26	339	23	7.4	2.6	1.4
22	.90	10	9.5	82	16	149	25	339	57	7.0	2.5	1.5
23	.90	6.2	9.0	53	15	184	25	309	84	6.5	2.5	1.6
24	.80	5.0	8.6	45	14	160	25	288	78	6.2	2.6	1.5
25	.90	4.4	8.1	37	14	137	24	248	73	5.8	2.6	1.5
26	.90	4.2	7.8	59	13	123	24	143	69	5.2	2.4	1.4
27	.80	4.2	7.2	111	12	110	24	73	64	5.1	1.8	1.4
28	.80	44	7.0	88	12	107	23	74	59	5.0	1.7	1.4
29	.60	66	7.0	347	---	96	22	69	56	4.6	1.5	1.4
30	.60	22	6.6	312	---	69	21	59	52	4.5	1.3	1.4
31	.60	---	6.5	211	---	41	---	55	---	4.0	1.3	---
TOTAL	28.10	250.50	792.3	1636.5	1177	2746.8	885	4154	1344	482.3	81.1	45.7
MEAN	.91	8.35	25.6	52.8	42.0	88.6	29.5	134	44.8	15.6	2.62	1.52
MAX	1.2	66	139	347	126	367	36	339	84	47	3.8	2.5
MIN	.60	.60	6.5	5.5	12	9.3	21	23	23	4.0	1.3	1.2
AC-FT	56	497	1570	3250	2330	5450	1760	8240	2670	957	161	91

CAL YR 1966 TOTAL 5045.80 MEAN 13.8 MAX 139 MIN .40 AC-FT 10010
WTR YR 1967 TOTAL 13623.30 MEAN 37.3 MAX 367 MIN .60 AC-FT 27020

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	1.4	3.7	6.3	10	36	33	9.3	6.8	3.2	.86	.40
2	5.4	1.4	3.7	6.0	15	33	31	9.0	6.6	2.8	.62	.36
3	8.6	1.3	3.9	5.5	15	31	28	8.8	6.5	2.8	.56	.30
4	3.9	1.3	5.9	5.2	16	28	26	8.6	6.3	2.8	.56	.28
5	3.7	1.4	22	5.0	16	28	25	8.3	6.8	2.7	.56	.26
6	3.2	1.4	8.3	4.8	18	25	24	8.1	7.0	2.4	.50	.24
7	2.8	1.4	7.6	4.8	18	25	22	7.8	7.0	2.3	.50	.26
8	2.4	1.3	5.8	4.8	20	28	20	7.6	7.0	2.1	.44	.24
9	2.2	1.3	5.3	5.0	26	26	20	7.6	6.5	2.1	.44	.22
10	2.1	1.4	5.2	5.2	24	24	19	7.4	6.5	2.0	.40	.20
11	2.1	1.4	5.5	5.1	22	22	18	7.4	7.2	1.8	.40	.17
12	2.0	1.4	5.1	5.1	22	21	17	7.4	6.6	1.6	.40	.15
13	2.0	1.6	4.1	5.2	22	23	16	8.3	6.5	1.5	.44	.15
14	1.9	4.2	4.2	51	21	22	15	8.8	6.2	1.5	.44	.17
15	1.9	3.1	4.2	54	20	22	15	8.1	6.0	1.5	.40	.16
16	1.9	2.8	3.9	23	27	25	14	7.6	5.8	1.4	.44	.15
17	1.8	2.7	3.8	16	69	23	14	7.2	5.5	1.3	.70	.13
18	1.8	3.0	4.1	13	41	22	13	6.8	5.2	1.2	.70	.13
19	1.8	11	4.1	12	245	22	13	6.8	5.0	1.0	3.8	.13
20	1.8	6.2	3.9	12	255	22	12	6.6	4.7	1.0	4.1	.20
21	1.8	5.1	3.8	12	220	24	12	6.6	4.6	.94	2.3	.16
22	1.9	3.9	3.8	13	235	26	12	6.8	4.4	.94	1.7	.14
23	1.9	3.6	4.1	13	112	27	11	6.6	4.2	.86	1.1	.12
24	1.8	3.3	4.8	12	72	28	11	6.5	4.0	.86	.94	.11
25	1.7	3.2	6.8	12	62	32	11	6.5	3.8	.86	.94	.10
26	1.6	3.0	10	11	54	35	11	6.3	3.7	.86	.78	.09
27	1.6	3.1	12	10	49	32	10	6.2	3.6	.78	.70	.08
28	1.7	3.5	12	9.5	44	32	9.8	6.2	3.5	.70	.56	.08
29	1.7	3.7	9.8	8.3	40	35	9.5	5.9	3.5	.70	.50	.34
30	1.5	3.8	7.8	9.3	---	35	9.5	6.3	3.4	.62	.44	.44
31	1.4	---	6.8	9.5	---	33	---	7.0	---	.70	.36	---
TOTAL	73.6	87.2	196.0	368.6	1810	847	501.8	228.4	164.4	47.82	27.58	5.96
MEAN	2.37	2.91	6.32	11.9	62.4	27.3	16.7	7.37	5.48	1.54	.89	.20
MAX	8.6	11	22	54	255	36	33	9.3	7.2	3.2	4.1	.44
MIN	1.4	1.3	3.7	4.8	10	21	9.5	5.9	3.4	.62	.36	.08
AC-FT	146	173	389	731	3590	1680	995	453	326	95	55	12

CAL YR 1967 TOTAL 12909.20 MEAN 35.4 MAX 367 MIN 1.2 AC-FT 25610
WTR YR 1968 TOTAL 4358.36 MEAN 11.9 MAX 255 MIN .08 AC-FT 8640

11433100 LONG CANYON CREEK NEAR FRENCH MEADOWS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	2.5	6.0	11	118	33	250	94	27	12	3.5	1.7
2	.62	7.4	5.6	10	103	32	218	82	26	12	3.4	1.6
3	.62	40	5.6	10	96	32	187	77	25	12	3.2	1.5
4	.78	13	5.8	13	89	30	180	72	24	12	3.1	1.5
5	.86	7.4	5.9	16	87	31	232	85	23	11	3.0	1.4
6	.56	5.6	6.0	16	79	31	195	114	22	11	2.9	1.5
7	.56	4.7	5.8	17	70	31	166	137	21	11	2.8	1.8
8	.56	4.1	6.0	16	64	33	156	162	21	10	2.8	2.0
9	.44	3.9	6.0	15	62	32	153	200	20	9.5	2.8	1.6
10	.44	3.7	14	14	60	32	162	230	20	8.8	2.8	1.5
11	.70	3.7	17	15	64	32	193	242	20	8.6	2.7	1.4
12	2.7	13	12	20	68	32	223	198	20	7.8	2.7	1.4
13	3.8	8.8	11	112	58	32	216	128	19	7.4	2.7	1.4
14	3.9	6.3	13	105	55	32	195	117	18	6.8	2.6	1.4
15	2.7	7.0	18	51	61	35	148	131	20	6.6	2.5	1.4
16	2.2	7.6	16	37	57	40	88	139	29	6.2	2.4	1.4
17	1.8	7.8	13	30	55	44	94	166	42	6.0	2.4	1.3
18	1.5	12	12	40	52	50	120	160	42	5.8	2.3	1.3
19	1.2	12	11	517	50	58	117	149	37	5.3	2.3	1.4
20	1.1	9.3	9.5	1200	49	62	134	139	34	5.2	2.3	1.4
21	1.1	7.2	8.6	1330	44	60	180	134	31	5.0	2.2	1.4
22	.94	7.0	8.8	549	42	65	211	90	28	4.7	2.1	1.3
23	.70	6.0	9.0	285	42	84	211	38	22	5.1	2.1	1.2
24	.78	6.5	21	225	40	93	156	36	15	4.8	2.0	1.2
25	.78	6.5	22	648	38	103	132	35	14	4.6	1.9	1.2
26	.86	6.0	16	847	37	122	123	34	14	4.4	1.8	1.2
27	.86	5.9	13	395	34	147	123	34	14	4.2	1.8	1.2
28	.94	5.8	13	268	34	180	142	31	13	4.0	1.8	1.2
29	1.8	5.6	12	198	---	211	158	30	13	3.9	1.8	1.1
30	3.7	5.9	12	162	---	248	126	30	12	3.8	1.7	1.1
31	2.7	---	11	136	---	258	---	28	---	3.7	1.7	---
TOTAL	42.70	242.2	345.6	7308	1708	2305	4989	3342	686	223.2	76.1	42.0
MEAN	1.38	8.07	11.1	236	61.0	74.4	166	108	22.9	7.20	2.45	1.40
MAX	3.9	40	22	1330	118	258	250	242	42	12	3.5	2.0
MIN	.44	2.5	5.6	10	34	30	88	28	12	3.7	1.7	1.1
AC-FT	85	480	685	14500	3390	4570	9900	6630	1360	443	151	83

CAL YR 1968 TOTAL 4632.20 MEAN 12.7 MAX 255 MIN .10 AC-FT 9190
WTR YR 1969 TOTAL 21309.80 MEAN 58.4 MAX 1330 MIN .44 AC-FT 42270

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.7	1.6	23	79	60	34	19	9.7	4.3	1.9	1.1
2	1.0	1.7	1.6	21	70	52	32	18	9.7	3.9	1.9	1.1
3	1.1	1.7	1.8	20	65	50	31	18	9.7	3.7	1.9	1.1
4	1.2	1.7	1.9	19	61	48	30	17	9.2	3.5	1.9	1.0
5	1.2	4.5	1.9	17	57	47	29	17	8.8	3.4	1.8	1.0
6	1.2	7.9	1.9	17	53	45	30	16	8.8	3.2	1.8	1.0
7	1.3	4.7	1.9	17	49	47	31	16	8.8	3.1	1.8	1.0
8	1.5	3.8	2.3	17	46	53	31	16	11	3.1	1.7	.96
9	1.6	3.3	2.2	50	44	54	30	16	11	2.9	1.7	.96
10	1.5	3.5	2.7	99	43	58	30	16	9.7	2.9	1.7	.96
11	1.4	3.6	3.6	69	45	53	29	16	9.2	2.9	1.6	.96
12	1.5	3.5	4.3	78	47	52	28	15	9.2	2.8	1.6	1.0
13	1.5	3.0	5.6	110	48	53	28	15	9.2	2.8	1.6	1.0
14	1.7	2.7	4.4	500	45	57	29	14	9.2	2.7	1.5	.96
15	3.9	2.5	3.7	250	44	59	30	14	9.2	2.7	1.5	.96
16	9.6	3.8	3.3	1030	54	56	30	13	8.8	2.5	1.5	.96
17	6.9	3.2	3.3	746	65	54	30	13	8.5	2.5	1.5	.96
18	3.6	2.7	3.3	462	54	51	30	13	8.5	2.4	1.5	.96
19	2.7	2.5	15	373	52	50	31	13	8.1	2.4	1.4	1.1
20	2.3	2.4	76	370	50	48	30	13	7.4	2.4	1.4	1.1
21	2.1	2.2	150	1470	48	46	28	13	6.8	2.3	1.4	1.1
22	2.0	2.2	28	841	47	45	26	13	6.5	2.3	1.4	1.1
23	1.9	2.1	33	506	45	43	25	14	6.2	2.2	1.3	1.0
24	1.9	2.1	338	395	43	42	23	13	5.9	2.2	1.3	.96
25	1.9	2.0	232	264	42	41	22	12	5.7	2.2	1.3	.96
26	1.9	1.9	88	184	41	41	23	12	5.7	2.1	1.2	.87
27	2.0	1.9	47	245	42	39	23	11	5.7	2.1	1.2	.77
28	1.8	1.9	34	161	47	38	22	11	5.9	2.1	1.2	.70
29	1.8	1.8	29	131	---	37	21	11	5.7	2.0	1.1	.70
30	1.8	1.7	26	109	---	36	20	10	4.7	2.0	1.1	.65
31	1.7	---	24	92	---	35	---	9.7	---	2.0	1.2	---
TOTAL	68.7	84.2	1171.3	8686	1426	1490	836	437.7	242.5	83.6	46.9	28.95
MEAN	2.22	2.81	37.8	280	50.9	48.1	27.9	14.1	8.08	2.70	1.51	.97
MAX	9.6	7.9	338	1470	79	60	34	19	11	4.3	1.9	1.1
MIN	1.0	1.7	1.6	17	41	35	20	9.7	4.7	2.0	1.1	.65
AC-FT	136	167	2320	17230	2830	2960	1660	868	481	166	93	57

CAL YR 1969 TOTAL 22003.50 MEAN 60.3 MAX 1330 MIN 1.0 AC-FT 43640
WTR YR 1970 TOTAL 14601.85 MEAN 40.0 MAX 1470 MIN .65 AC-FT 28960

11433200 RUBICON RIVER NEAR FORESTHILL, CALIF.

LOCATION.--Lat 38°59'33", long 120°43'14", in SE¼NW¼ sec.11, T.13 N., R.11 E., Placer County, Eldorado National Forest, on right bank 0.6 mile upstream from Ralston powerhouse, 1.2 miles upstream from confluence of Rubicon River and Middle Fork American River, and 5.6 miles southeast of Foresthill.

DRAINAGE AREA.--315 sq mi.

PERIOD OF RECORD.--October 1958 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 1,200 ft (from topographic map). October 1958 to May 17, 1963, at site 2.0 miles upstream (150 ft downstream from Ralston Bridge) and May 17, 1963, to Mar. 30, 1965, at site 2.1 miles upstream (100 ft upstream from Ralston Bridge) at datum 1,362.20 ft above mean sea level.

AVERAGE DISCHARGE.--5 years (1965-70, since construction of Hell Hole Dam), 326 cfs (236,200 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Nov. 18, 1965	1,580	9.26	Sept.12, 1966	24
1967	Mar. 17, 1967	4,780	11.27	Nov. 5, 1966	34
1968	Feb. 20, 1968	1,930	9.58	Sept.20, 26-30, 1968	35
1969	Jan. 21, 1969	12,700	14.00	Oct. 7-11, 1968	35
1970	Jan. 21, 1970	15,100	14.60	Aug. 24-27, 1970	37

Period of record: Maximum discharge unknown, occurred Dec. 23, 1964 (gage height, 55.4 ft, from floodmarks), result of failure of the partly constructed Hell Hole Dam; next highest peak discharge, 83,000 cfs Feb. 1, 1963 (gage height, 35.0 ft, former site and datum); minimum daily, 10 cfs Sept. 20-27, 1962. Maximum discharge since construction of Hell Hole Dam in 1965, 15,100 cfs Jan. 21, 1970 (gage height, 14.60 ft); minimum daily, 24 cfs Sept. 12, 1966.

Floods in December 1937, November 1950, and December 1955, had approximate discharges of 44,000, 56,000, and 73,000 cfs, respectively, on basis of 1958-64 stage-discharge relation and U.S. Forest Service floodmarks.

REMARKS.--Records good except those for period of no gage-height record Feb. 15 to Mar. 31, 1966, which are fair. Flow regulated by Hell Hole Reservoir (see station 11428700), Loon Lake (see station 11429350), and Stumpy Meadows Lake (capacity, 20,000 acre-ft). Water is imported from French Meadows Reservoir on Middle Fork American River through tunnel to French Meadows powerplant on shore of Hell Hole Reservoir. Water is diverted from Hell Hole Reservoir through tunnel to Middle Fork powerplant on Middle Fork American River. Robbs Peak tunnel and powerplant (see station 11429800) divert water to South Fork American River basin. See schematic diagram of Middle Fork American and Rubicon River basins elsewhere in this report.

REVISIONS.--WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	48	163	76	119	149	377	163	186	56	34	30
2	50	53	158	73	112	140	399	158	134	56	34	30
3	49	49	158	105	102	123	394	158	99	56	33	28
4	49	49	150	126	108	118	388	158	96	56	31	28
5	49	49	150	289	145	120	366	150	85	56	28	28
6	49	49	150	294	284	126	360	145	74	56	26	34
7	48	46	119	245	223	138	360	138	70	54	26	35
8	48	49	82	218	181	168	333	134	99	53	26	35
9	48	49	72	201	153	210	316	130	70	53	26	35
10	48	51	70	176	134	562	410	154	63	53	28	30
11	48	51	70	154	119	461	501	141	88	51	29	28
12	47	51	77	134	126	348	501	130	82	51	28	24
13	47	53	72	130	115	445	432	119	74	49	35	28
14	50	123	70	130	112	465	388	112	58	51	39	28
15	90	158	65	134	110	407	366	108	88	51	35	30
16	71	206	61	138	110	352	360	105	70	51	35	53
17	60	245	58	134	111	277	360	105	70	49	35	53
18	56	1120	56	123	119	241	350	102	68	49	35	51
19	53	730	56	112	126	237	316	99	65	49	35	51
20	51	360	54	108	131	240	284	96	65	49	35	51
21	50	267	54	102	134	211	267	99	65	49	35	53
22	49	201	58	96	155	209	250	99	63	46	35	53
23	50	218	58	96	196	219	234	96	63	42	37	53
24	51	344	65	96	218	237	229	96	63	37	39	53
25	52	338	70	94	186	271	234	91	61	37	39	53
26	52	262	56	94	169	302	218	91	61	38	37	53
27	53	223	81	94	156	332	206	91	61	35	34	53
28	53	201	142	91	153	360	196	145	61	34	30	49
29	53	181	136	96	---	375	181	240	61	35	29	49
30	48	172	131	130	---	381	172	240	61	35	28	49
31	48	---	103	126	---	387	---	234	---	35	28	---
TOTAL	1620	5996	2865	4215	4107	8611	9748	4127	2324	1472	1004	1228
MEAN	52.3	200	92.4	136	147	278	325	133	77.5	47.5	32.4	40.9
MAX	90	1120	163	294	284	562	501	240	186	56	39	53
MIN	47	46	54	73	102	118	172	91	58	34	26	24
AC-FT	3210	11890	5680	8360	8150	17080	19340	8190	4610	2920	1990	2440

CAL YR 1965 TOTAL 245657 MEAN 673 MAX 5230 MIN 46 AC-FT 487300
WTR YR 1966 TOTAL 47317 MEAN 130 MAX 1120 MIN 24 AC-FT 93850

11433200 RUBICON RIVER NEAR FORESTHILL, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	43	218	98	1440	250	678	520	676	1440	87	49
2	51	43	838	94	1120	245	639	525	820	1240	84	49
3	51	39	774	94	910	240	597	548	847	1180	80	49
4	51	35	245	94	788	236	604	611	584	820	87	49
5	51	34	916	90	708	227	625	639	756	577	84	49
6	51	45	1290	87	653	222	716	639	764	443	78	47
7	51	65	785	87	611	218	874	748	632	382	75	47
8	51	43	438	87	570	214	780	892	564	218	70	47
9	51	37	328	84	538	214	732	1040	538	160	65	47
10	51	35	289	84	513	218	708	1480	513	147	62	45
11	51	35	322	80	501	333	700	1270	489	135	62	45
12	51	35	300	78	489	382	653	1090	692	231	62	45
13	51	35	267	80	483	410	646	982	1360	646	62	45
14	51	35	218	80	507	372	668	937	1270	668	62	45
15	49	39	168	80	460	355	660	1000	1270	653	60	45
16	49	172	155	80	426	3050	611	1170	1610	611	60	45
17	49	104	147	80	399	3560	646	1340	2150	438	60	45
18	49	65	143	80	382	1920	748	1460	2450	168	58	68
19	49	58	135	80	372	1450	700	1450	2230	112	55	58
20	49	309	131	138	344	1220	639	1510	2030	104	55	47
21	49	322	127	1860	328	1110	625	1760	1860	104	51	47
22	49	294	123	1400	316	1080	604	1890	1960	104	51	45
23	45	139	115	625	306	1170	611	1610	1720	104	51	45
24	45	101	115	564	294	1170	639	1480	1450	104	51	45
25	45	84	112	495	289	1030	611	1320	1560	98	51	45
26	45	78	108	483	278	937	584	1130	1660	94	53	45
27	45	65	104	684	262	865	604	937	1580	94	53	45
28	45	107	101	716	256	847	584	874	1480	94	53	45
29	45	612	98	2010	---	812	551	804	1490	90	51	45
30	45	87	98	1900	---	748	525	724	1660	87	49	45
31	43	---	98	1860	---	748	---	716	---	87	49	---
TOTAL	1509	3195	9306	14352	14543	25853	19562	33096	38665	11433	1931	1418
MEAN	48.7	107	300	463	519	834	652	1068	1289	369	62.3	47.3
MAX	51	612	1290	2010	1440	3560	874	1890	2450	1440	87	68
MIN	43	34	98	78	256	214	525	520	489	87	49	45
AC-FT	2990	6340	18460	28470	28850	51280	38800	65650	76690	22680	3830	2810

CAL YR 1966 TOTAL 50846 MEAN 139 MAX 1290 MIN 24 AC-FT 100900
WTR YR 1967 TOTAL 174863 MEAN 479 MAX 3560 MIN 34 AC-FT 346800

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	39	70	70	140	460	440	165	105	68	49	41
2	61	39	57	67	154	427	446	164	104	68	48	41
3	146	40	62	62	240	401	412	162	98	68	47	41
4	66	41	125	60	238	381	390	154	98	68	47	41
5	55	41	310	58	230	370	376	147	98	68	47	39
6	53	41	160	58	235	350	365	146	98	68	45	39
7	50	41	200	57	241	342	346	140	108	68	45	39
8	47	41	151	58	232	388	337	136	108	65	44	39
9	45	41	104	60	275	377	331	134	98	65	41	39
10	45	41	90	163	322	344	325	130	94	65	41	39
11	45	41	80	126	262	316	327	125	90	64	41	39
12	45	41	72	89	237	306	320	127	90	63	41	39
13	45	41	58	79	228	365	303	149	87	63	39	39
14	44	63	49	83	224	425	282	180	87	63	39	39
15	43	61	61	532	213	400	275	161	84	63	39	37
16	43	51	59	400	204	440	262	150	84	63	39	37
17	43	49	54	243	434	471	249	143	84	62	39	37
18	43	51	68	186	507	426	239	138	84	60	39	37
19	43	146	69	157	468	399	227	130	84	60	64	37
20	43	94	62	139	1520	382	222	127	80	58	98	35
21	43	62	59	131	1400	360	216	126	80	58	60	39
22	43	53	58	127	1110	355	207	123	80	57	51	39
23	62	49	60	129	1130	355	203	123	79	55	47	39
24	67	47	69	123	883	355	199	122	77	55	47	39
25	44	47	84	119	708	367	192	119	75	55	47	37
26	43	45	99	117	616	381	187	115	70	55	45	35
27	43	47	109	126	558	364	185	114	70	55	43	35
28	41	55	103	115	517	358	176	112	69	55	45	35
29	41	62	90	113	484	376	173	109	68	55	43	35
30	41	78	79	154	---	399	169	108	68	55	41	35
31	41	---	74	152	---	410	---	108	---	51	41	---
TOTAL	1557	1588	2845	4153	14010	11850	8381	4187	2599	1896	1442	1142
MEAN	50.2	52.9	91.8	134	483	382	279	135	86.6	61.2	46.5	38.1
MAX	146	146	310	532	1520	471	446	180	108	68	98	41
MIN	41	39	49	57	140	306	169	108	68	51	39	35
AC-FT	3090	3150	5640	8240	27790	23500	16620	8300	5160	3760	2860	2270

CAL YR 1967 TOTAL 166843 MEAN 457 MAX 3560 MIN 39 AC-FT 330900
WTR YR 1968 TOTAL 55650 MEAN 152 MAX 1520 MIN 35 AC-FT 110400

11433200 RUBICON RIVER NEAR FORESTHILL, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	58	78	131	1110	580	1200	930	295	123	72	50
2	37	75	80	123	992	580	1180	890	272	116	73	49
3	37	289	72	119	913	578	1100	840	400	114	73	50
4	37	204	68	123	878	575	1050	840	602	112	71	54
5	37	108	67	139	944	568	1380	900	579	118	68	54
6	37	80	69	139	992	568	1290	1050	504	119	66	54
7	35	68	70	139	864	530	1140	1200	579	113	66	54
8	35	65	70	139	780	510	1070	1330	602	113	65	52
9	35	60	70	142	741	495	1020	1450	291	112	64	52
10	35	58	105	134	690	475	984	1490	227	110	64	50
11	35	60	289	151	809	455	1030	1400	214	110	66	45
12	51	155	168	256	1110	445	1120	1320	214	108	64	44
13	65	108	123	878	944	435	1140	1250	197	105	63	44
14	78	84	186	1010	899	420	1080	1050	186	104	63	44
15	66	104	278	564	1310	425	984	910	184	102	63	44
16	58	90	294	404	1260	440	885	850	693	102	62	44
17	55	87	186	328	1100	470	885	850	790	100	61	44
18	51	·90	151	338	900	510	1000	840	526	100	61	44
19	52	108	143	2310	800	530	952	790	588	96	60	44
20	53	90	127	7190	720	535	960	760	448	94	58	44
21	53	90	104	9810	670	563	1040	722	322	93	59	44
22	53	72	104	5400	620	541	1190	700	237	93	55	44
23	53	68	108	2470	620	579	1300	663	191	99	55	44
24	53	78	294	1990	610	608	1160	520	162	98	54	43
25	53	87	597	3660	600	632	1020	445	144	96	53	43
26	53	78	344	6220	580	683	936	410	136	94	53	44
27	51	72	209	3350	560	761	899	395	132	80	52	44
28	51	68	182	2220	570	857	906	380	130	75	51	44
29	55	65	168	1640	---	952	944	349	128	74	50	44
30	65	68	155	1400	---	1080	980	336	132	73	51	44
31	62	---	139	1210	---	1180	---	313	---	72	50	---
TOTAL	1528	2787	5098	54127	23586	18560	31825	26173	10105	3118	1886	1398
MEAN	49.3	92.9	164	1746	842	599	1061	844	337	101	60.8	46.6
MAX	78	289	597	9810	1310	1180	1380	1490	790	123	73	54
MIN	35	58	67	119	560	420	885	313	128	72	50	43
AC-FT	3030	5530	10110	107400	46780	36810	63120	51910	20040	6180	3740	2770

CAL YR 1968 TOTAL 59073 MEAN 161 MAX 1520 MIN 35 AC-FT 117200
WTR YR 1969 TOTAL 180191 MEAN 494 MAX 9810 MIN 35 AC-FT 357400

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	60	62	174	1030	870	345	206	118	87	49	38
2	41	60	62	160	904	717	334	202	115	85	51	40
3	40	62	61	150	816	599	325	198	115	82	51	41
4	39	59	60	143	744	577	310	191	114	82	52	40
5	39	95	60	137	676	590	284	184	112	79	48	41
6	40	205	60	132	613	569	278	178	109	79	49	43
7	39	114	60	130	568	555	260	178	109	76	49	43
8	43	92	67	133	523	686	249	174	108	73	48	43
9	48	81	76	225	486	654	239	176	148	73	46	43
10	42	77	83	786	512	662	234	176	130	73	46	43
11	46	74	135	476	484	646	223	174	117	73	46	41
12	50	72	100	455	504	606	214	166	112	73	46	40
13	42	70	107	649	600	606	218	165	109	73	46	40
14	42	69	91	2160	606	622	249	161	109	70	43	40
15	75	68	78	1570	525	622	232	157	110	70	43	40
16	169	82	72	6610	551	590	260	153	109	70	43	40
17	141	81	72	5650	937	614	262	150	108	67	43	40
18	95	73	70	2700	711	590	261	145	103	67	44	40
19	74	70	142	1660	617	555	293	141	103	67	46	40
20	67	68	863	2020	561	534	271	137	100	67	45	43
21	64	68	1660	8570	521	513	248	137	95	67	40	43
22	61	68	799	8180	489	499	243	134	94	67	40	43
23	53	66	340	3870	463	513	237	133	91	64	39	43
24	58	66	1700	4570	440	499	226	129	88	64	37	43
25	60	66	1480	2880	418	476	224	124	88	61	37	43
26	60	66	767	2290	398	437	245	124	88	61	37	43
27	60	64	412	3010	384	418	262	126	88	61	37	43
28	60	64	297	2090	398	403	234	124	88	58	39	43
29	60	64	240	1630	---	394	222	124	91	47	40	43
30	60	62	208	1370	---	380	212	124	90	45	40	43
31	60	---	185	1180	---	365	---	120	---	50	40	---
TOTAL	1872	2286	10468	65840	16479	17361	7694	4811	3159	2131	1360	1249
MEAN	60.4	76.2	338	2124	589	560	256	155	105	68.7	43.9	41.6
MAX	169	205	1700	8570	1030	870	345	206	148	87	52	43
MIN	39	59	60	130	384	365	212	120	88	45	37	38
AC-FT	3710	4530	20760	130600	32690	34440	15260	9540	6270	4230	2700	2480

CAL YR 1969 TOTAL 185405 MEAN 508 MAX 9810 MIN 39 AC-FT 367800
WTR YR 1970 TOTAL 134631 MEAN 369 MAX 8570 MIN 37 AC-FT 267000

11433260 NORTH FORK OF MIDDLE FORK AMERICAN RIVER NEAR FORESTHILL, CALIF.

LOCATION.--Lat 39°01'27", long 120°43'03", in NE¼NW¼ sec.35, T.14 N., R.11 E., Placer County, Tahoe National Forest, on right bank 1.0 mile downstream from El Dorado Canyon and 4.8 miles east of Foresthill.

DRAINAGE AREA.--88.9 sq mi.

PERIOD OF RECORD.--July 1965 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 1,300 ft (from topographic map).

AVERAGE DISCHARGE.--5 years, 263 cfs (190,500 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (1,600 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Apr. 1, 1966	2200	*858	6.02	May 16, 1967	2100	1,830	6.93	Apr. 5, 1969	1200	1,650	6.85
Dec. 2, 1966	2230	3,010	7.85	Feb. 20, 1968	0400	*3,900	8.35	Dec. 21, 1969	1500	5,580	9.28
Dec. 6, 1966	1400	3,250	8.00	Feb. 23, 1968	1300	2,230	7.30	Dec. 24, 1969	0600	6,150	9.55
Jan. 21, 1967	1600	3,330	8.05					Jan. 14, 1970	1300	6,680	9.80
Jan. 29, 1967	1900	4,200	8.50	Jan. 13, 1969	1900	2,790	7.70	Jan. 16, 1970	1000	8,330	10.55
Mar. 16, 1967	1400	*4,500	8.65	Jan. 20, 1969	-	*11,000	a12.3	Jan. 21, 1970	1900	*13,600	b12.80
May 10, 1967	0700	1,770	6.88	Jan. 26, 1969	-	-	-				

a From floodmarks.
b In gage well; 13.5 ft, from floodmarks.

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Sept. 3, 1966	18	1969	Oct. 1-7, 9-11, 1968	23
1967	Oct. 23 to Nov. 5, 1966	17	1970	Sept.11, 1970	22
1968	Aug. 10-18, 1968	20			

Period of record: Maximum discharge, 13,600 cfs Jan. 21, 1970 (gage height, 12.80 ft in gage well; 13.5 ft, from floodmarks); minimum daily, 17 cfs Oct. 23 to Nov. 5, 1966.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. No storage or diversion above station. See schematic diagram of Middle Fork American and Rubicon River basins elsewhere in this report.

COOPERATION.--Seven discharge measurements for the water year 1969 furnished by Placer County Water Agency in connection with a Federal Power Commission project. Records for the water year 1970 collected by Placer County Water Agency, under general supervision of the Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	19	59	88	98	159	704	193	69	31	24	20
2	28	19	55	67	92	150	680	182	67	31	24	19
3	27	19	55	62	90	141	603	182	65	31	24	18
4	25	19	60	73	98	135	554	179	63	30	23	19
5	25	19	60	224	159	135	528	172	63	29	23	20
6	26	19	57	293	280	138	522	162	62	29	23	20
7	26	19	54	235	214	196	498	153	62	28	22	19
8	26	25	52	200	179	251	462	147	62	27	22	20
9	24	27	51	190	153	271	415	150	60	28	22	20
10	24	22	49	159	138	768	534	176	55	30	20	20
11	24	21	48	138	128	575	589	147	54	31	20	20
12	24	22	59	128	122	444	582	135	51	31	20	20
13	24	27	52	122	115	652	504	128	46	31	20	22
14	24	88	46	122	115	624	462	122	45	31	20	24
15	37	62	41	125	112	540	438	118	42	30	20	24
16	29	42	40	128	112	456	438	112	41	30	20	25
17	24	98	39	125	112	360	450	110	39	30	20	24
18	23	435	39	118	115	320	420	100	39	29	20	24
19	22	250	39	110	128	325	355	98	37	29	20	25
20	22	108	36	105	135	302	311	95	37	28	19	24
21	22	73	35	98	135	288	288	90	36	28	19	24
22	21	61	36	95	141	284	271	88	36	28	19	23
23	20	75	33	92	193	293	255	81	37	27	20	23
24	20	186	44	83	228	325	255	79	37	27	20	23
25	20	141	73	81	193	360	267	77	35	27	20	22
26	19	99	55	79	176	415	263	73	34	26	20	22
27	20	78	46	79	162	480	247	71	33	26	20	22
28	20	69	78	77	159	561	228	71	32	26	20	21
29	20	65	130	83	---	610	214	69	32	25	20	21
30	19	62	122	110	---	652	204	69	32	25	20	20
31	19	---	118	100	---	673	---	69	---	25	21	---
TOTAL	733	2269	1761	3789	4082	11883	12541	3698	1403	884	645	648
MEAN	23.6	75.6	56.8	122	146	383	418	119	46.8	28.5	20.8	21.6
MAX	37	435	130	293	280	768	704	193	69	31	24	25
MIN	19	19	33	62	90	135	204	69	32	25	19	18
AC-FT	1450	4500	3490	7520	8100	23570	24880	7330	2780	1750	1280	1290

WTR YR 1966 TOTAL 44336 MEAN 121 MAX 768 MIN 18 AC-FT 87940

11433260 NORTH FORK OF MIDDLE FORK AMERICAN RIVER NEAR FORESTHILL, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	17	352	115	1510	293	444	293	492	144	55	33
2	20	17	1340	110	1170	293	410	355	395	135	54	33
3	21	17	1080	102	858	293	395	444	360	128	52	33
4	21	17	405	100	720	284	395	589	380	120	52	33
5	21	17	1300	100	673	275	405	631	534	115	49	35
6	21	27	1800	92	645	267	480	666	528	110	51	35
7	21	45	1150	88	617	263	603	1030	456	105	49	33
8	20	28	728	85	589	263	516	1230	438	100	49	32
9	20	24	522	85	561	267	486	1310	426	98	49	31
10	20	22	486	85	554	280	510	1470	400	95	46	31
11	20	21	450	81	547	330	462	1140	370	92	46	31
12	20	21	380	83	540	355	415	1000	385	88	46	31
13	20	21	345	83	540	360	426	948	410	85	46	31
14	19	21	330	81	547	345	486	1000	360	81	45	31
15	19	28	302	81	450	340	450	1220	350	79	44	30
16	19	148	275	81	405	2840	410	1430	335	79	42	29
17	18	73	259	81	405	2510	410	1440	335	77	42	28
18	18	52	243	79	405	1440	444	1370	330	75	42	37
19	18	39	232	77	400	1070	420	1290	288	73	40	36
20	18	255	221	129	380	921	395	1330	232	69	39	32
21	18	235	210	2060	360	858	380	1360	193	67	40	31
22	18	198	196	1230	350	867	370	1290	165	67	40	30
23	17	95	182	582	335	966	385	1230	176	65	39	30
24	17	69	168	474	330	885	395	1150	207	65	39	31
25	17	57	162	432	330	744	375	1070	200	62	43	30
26	17	51	153	432	311	652	355	1000	204	60	41	30
27	17	46	141	728	302	589	370	903	182	60	40	29
28	17	129	135	1230	293	561	335	816	172	59	39	28
29	17	624	130	2860	---	522	316	728	159	59	36	29
30	17	255	125	2810	---	486	288	645	156	57	34	29
31	17	---	120	2270	---	492	---	561	---	55	33	---
TOTAL	583	2669	13922	16926	15127	20911	12531	30939	9618	2624	1362	942
MEAN	18.8	89.0	449	546	540	675	418	998	321	84.6	43.9	31.4
MAX	21	624	1800	2860	1510	2840	603	1470	534	144	55	37
MIN	17	17	120	77	293	263	288	293	156	55	33	28
AC-FT	1160	5290	27610	33570	30000	41480	24860	61370	19080	5200	2700	1870

CAL YR 1966 TOTAL 56747 MEAN 155 MAX 1800 MIN 17 AC-FT 112600
WTR YR 1967 TOTAL 128154 MEAN 351 MAX 2860 MIN 17 AC-FT 254200

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	30	53	71	261	522	528	186	71	36	24	25
2	49	28	43	66	273	476	452	185	69	36	23	25
3	112	28	43	62	385	430	405	183	70	37	22	24
4	45	28	74	59	269	400	380	181	65	36	22	25
5	40	28	254	57	269	400	352	167	65	35	21	25
6	40	28	103	54	258	342	312	157	65	34	21	25
7	37	28	132	52	282	339	298	148	71	32	21	24
8	35	28	107	49	257	342	290	139	76	32	21	24
9	34	28	75	49	410	334	294	134	69	32	21	24
10	33	28	68	100	498	273	312	131	63	31	20	24
11	33	28	65	90	344	228	352	124	60	30	20	24
12	32	28	63	70	273	206	330	124	58	30	20	24
13	32	28	52	63	273	269	294	130	56	30	20	23
14	32	38	45	68	308	308	269	141	56	30	20	23
15	32	41	45	1020	334	285	249	126	55	30	20	23
16	31	33	45	720	334	344	220	116	54	29	20	23
17	31	31	45	372	858	390	166	110	51	28	20	23
18	31	31	45	330	912	339	157	107	50	27	20	23
19	31	81	45	312	892	298	166	105	49	27	44	22
20	31	61	45	294	2340	270	169	105	47	26	82	23
21	31	42	45	281	2020	274	177	104	46	26	34	25
22	31	36	45	298	1320	285	181	102	45	26	29	25
23	31	34	45	316	1710	312	187	97	44	25	27	23
24	31	33	49	308	1220	334	185	93	42	25	26	23
25	31	32	63	298	966	395	182	91	41	25	26	23
26	31	32	94	285	784	436	189	85	40	24	25	23
27	31	32	135	273	680	405	190	85	39	24	26	22
28	31	38	122	265	624	430	190	79	38	24	26	22
29	31	44	105	257	568	486	188	79	38	24	26	22
30	31	65	90	269	---	554	184	76	37	24	26	23
31	31	---	78	269	---	547	---	72	---	24	25	---
TOTAL	1112	1070	2318	7077	19922	11253	7848	3762	1630	899	798	707
MEAN	35.9	35.7	74.8	228	687	363	262	121	54.3	29.0	25.7	23.6
MAX	112	81	254	1020	2340	554	528	186	76	37	82	25
MIN	30	28	43	49	257	206	157	72	37	24	20	22
AC-FT	2210	2120	4600	14040	39520	22320	15570	7460	3230	1780	1580	1400

CAL YR 1967 TOTAL 115480 MEAN 316 MAX 2860 MIN 28 AC-FT 229100
WTR YR 1968 TOTAL 58396 MEAN 160 MAX 2340 MIN 20 AC-FT 115800

11433260 NORTH FORK OF MIDDLE FORK AMERICAN RIVER NEAR FORESTHILL, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	32	73	150	610	405	860	993	312	95	52	28
2	23	54	63	142	540	385	840	948	294	90	52	29
3	23	326	54	155	490	366	800	832	277	86	50	29
4	23	175	53	180	520	344	867	712	265	86	46	29
5	23	88	50	200	640	330	1300	776	241	89	45	29
6	23	63	49	205	700	330	1130	975	214	91	44	29
7	23	53	49	202	522	326	912	1080	196	89	42	29
8	24	46	50	195	492	326	816	1190	186	87	42	32
9	23	42	52	192	492	316	760	1260	166	86	42	32
10	23	41	87	182	492	303	776	1300	160	85	41	30
11	23	40	222	189	568	294	975	1230	169	84	41	29
12	45	157	142	257	816	285	1120	1200	154	83	41	29
13	60	101	112	1360	624	285	1120	1080	148	82	39	29
14	66	74	145	1460	610	273	1000	930	142	81	38	28
15	49	90	229	752	921	290	808	778	140	80	37	28
16	37	82	240	492	975	303	768	720	178	78	35	28
17	33	73	160	330	760	339	894	760	142	75	34	28
18	32	86	130	324	652	352	1110	736	137	72	36	28
19	30	125	115	1500	575	380	1070	645	134	71	35	28
20	29	86	105	3800	528	395	1140	540	124	67	35	28
21	29	73	95	6400	492	390	1280	516	122	58	33	28
22	29	63	89	5900	458	390	1330	504	114	57	32	28
23	28	60	89	2000	452	410	1280	522	112	60	31	28
24	28	68	220	1500	447	445	1060	492	112	62	30	28
25	27	73	480	3200	442	455	849	447	110	60	30	28
26	27	62	375	4000	430	490	744	410	106	60	30	28
27	26	59	260	2200	400	540	744	375	100	59	30	28
28	26	54	215	1500	415	600	832	366	98	59	30	28
29	28	52	195	1100	---	680	966	357	96	56	29	28
30	53	53	180	860	---	760	993	344	100	56	29	28
31	38	---	165	680	---	840	---	344	---	54	29	---
TOTAL	974	2451	4543	41607	16063	12627	29144	23362	4849	2298	1160	859
MEAN	31.4	81.7	147	1342	574	407	971	754	162	74.1	37.4	28.6
MAX	66	326	480	6400	975	840	1330	1300	312	95	52	32
MIN	23	32	49	142	400	273	744	344	96	54	29	28
AC-FT	1930	4860	9010	82530	31860	25050	57810	46340	9620	4560	2300	1700

CAL YR 1968 TOTAL 61864 MEAN 169 MAX 2340 MIN 20 AC-FT 122700
WTR YR 1969 TOTAL 139937 MEAN 383 MAX 6400 MIN 23 AC-FT 277600

NOTE.--NO GAGE-HEIGHT RECORD JAN. 19 TO FEB. 6, JUNE 26 TO JULY 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	37	38	248	632	443	241	182	90	57	31	23
2	28	37	38	215	522	394	233	182	86	54	31	23
3	28	36	38	198	479	358	226	188	86	52	30	23
4	28	36	38	182	455	353	222	195	82	51	30	23
5	28	58	38	167	421	338	219	195	80	49	30	25
6	28	150	38	155	394	334	219	195	79	46	30	26
7	28	90	38	147	368	334	215	182	77	46	30	25
8	31	75	43	147	343	432	212	179	79	46	29	24
9	39	64	47	256	329	426	208	179	119	45	29	23
10	32	58	52	772	315	432	208	182	100	45	28	23
11	30	54	98	443	297	404	205	170	86	44	27	22
12	30	52	82	568	324	388	198	158	82	43	27	23
13	30	51	117	1270	368	404	201	153	80	43	26	23
14	31	50	86	4130	358	455	205	153	80	41	26	23
15	70	49	70	1950	334	455	188	155	79	40	26	24
16	237	62	62	5290	343	438	192	158	77	39	26	24
17	188	61	57	4260	542	426	182	158	75	39	25	23
18	88	51	55	1840	443	399	182	150	72	38	26	23
19	62	47	311	1130	410	373	205	144	69	37	26	24
20	52	46	1490	1490	378	353	182	137	67	37	26	25
21	47	45	2440	7070	353	338	176	132	64	37	25	25
22	45	44	874	3900	334	329	173	127	62	35	25	24
23	44	43	772	2510	320	320	164	122	61	34	24	24
24	42	42	4420	2790	311	315	161	119	59	34	24	24
25	41	41	2400	1900	302	315	155	115	58	33	24	23
26	40	40	1170	1460	293	306	176	110	58	33	24	24
27	39	40	669	2220	289	293	170	108	61	33	24	24
28	39	39	443	1610	302	285	158	104	59	32	24	24
29	38	39	363	1260	---	276	161	100	62	32	24	24
30	38	39	315	931	---	268	170	98	59	32	24	23
31	38	---	276	772	---	256	---	94	---	31	23	---
TOTAL	1567	1576	16978	51281	10559	11240	5807	4624	2248	1258	824	711
MEAN	50.5	52.5	548	1654	377	363	194	149	74.9	40.6	26.6	23.7
MAX	237	150	4420	7070	632	455	241	195	119	57	31	26
MIN	28	36	38	147	289	256	155	94	58	31	23	22
AC-FT	3110	3130	33680	101700	20940	22290	11520	9170	4460	2500	1630	1410

CAL YR 1969 TOTAL 152090 MEAN 417 MAX 6400 MIN 28 AC-FT 301700
WTR YR 1970 TOTAL 108673 MEAN 298 MAX 7070 MIN 22 AC-FT 215600

NOTE.--NO GAGE-HEIGHT RECORD JAN. 21 TO FEB. 2.

11433300 MIDDLE FORK AMERICAN RIVER NEAR FORESTHILL, CALIF.

LOCATION.--Lat 39°00'23", long 120°45'40", in NW¼NW¼ sec.4, T.13 N., R.11 E., Placer County, Tahoe National Forest, on right bank 1.7 miles downstream from Oxbow powerhouse and 3.2 miles east of Foresthill. Prior to Oct. 22, 1965, at site 3.2 miles downstream.

DRAINAGE AREA.--524 sq mi.

PERIOD OF RECORD.--October 1958 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 1,060 ft (from topographic map). Prior to Oct. 22, 1965, at site 3.2 miles downstream at different datum.

AVERAGE DISCHARGE.--12 years, 1,099 cfs (796,200 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Nov. 18, 1965	1,980	8.11	Aug. 12, 13, 1966	38
1967	Mar. 16, 1967	17,100	12.70	Sept. 4, 1967	51
1968	Feb. 20, 1968	8,800	10.95	Oct. 1, 1967	65
1969	Jan. 20, 1969	24,700	a17.0	Oct. 6, 1968	70
1970	Jan. 21, 1970	34,600	16.71	Oct. 11, 12, 1969	48

a From floodmarks.

Period of record: Maximum discharge, 310,000 cfs Dec. 23, 1964 (gage height, 69.0 ft, from floodmarks, site and datum then in use), caused by overtopping the partly constructed Hell Hole Dam on Rubicon River, from rating curve extended above 28,000 cfs on basis of slope-area measurement at gage height 38.0 ft and slope-conveyance study at gage height 69.0 ft at site and datum then in use; next highest peak, 113,000 cfs Feb. 1, 1963 (gage height, 38.00 ft, site and datum then in use); minimum, 35 cfs Oct. 19, 20, 1961.

REMARKS.--Flow regulated by French Meadows Reservoir (see station 11427400), Hell Hole Reservoir (see station 11428700), Loon Lake (see station 11429350), Stumpy Meadows Lake (usable capacity, 20,000 acre-ft), and by Ralston and Oxbow powerplants. Robbs Peak tunnel (see station 11429800) and Georgetown Divide ditch (capacity, about 25 cfs) divert water out of basin above station. See schematic diagram of Middle Fork American and Rubicon River basins elsewhere in this report.

COOPERATION.--Eight discharge measurements for the water year 1969 furnished by Placer County Water Agency in connection with a Federal Power Commission project. Records for the water year 1970 collected by Placer County Water Agency, under general supervision of the Geological Survey.

REVISIONS.--WSP 1931: Drainage area, at former site.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	320	84	288	328	288	360	1210	442	476	118	100	59
2	320	84	273	255	273	352	1240	410	432	116	48	59
3	320	85	267	228	258	321	1170	446	263	116	77	57
4	320	82	270	258	270	307	1090	561	205	114	123	57
5	325	81	273	615	370	310	1060	446	185	113	83	57
6	330	81	273	734	698	310	1040	363	175	112	54	57
7	330	78	234	595	558	390	993	398	171	110	68	57
8	330	90	185	522	462	490	944	386	339	110	68	57
9	330	95	165	486	394	540	874	318	368	110	67	59
10	330	86	156	426	352	1100	1020	264	352	110	72	60
11	335	86	154	382	324	993	1180	360	372	108	52	61
12	345	87	178	338	307	842	1210	342	340	107	38	169
13	355	100	162	318	294	1060	1110	307	311	107	38	110
14	380	258	150	318	288	1090	986	300	155	106	39	43
15	420	276	128	321	279	986	916	288	280	100	39	186
16	415	282	122	335	273	916	902	279	320	83	39	89
17	405	382	120	321	270	782	909	288	314	88	39	89
18	400	1540	118	300	276	704	881	378	311	92	40	89
19	415	1100	118	285	297	728	776	462	308	94	53	187
20	440	590	116	270	310	692	692	346	299	95	40	72
21	455	485	120	255	310	660	645	307	165	95	40	160
22	475	385	124	249	321	645	615	276	139	95	41	82
23	480	365	120	243	398	650	585	249	139	94	42	107
24	485	610	142	234	504	698	576	231	137	91	43	84
25	485	560	285	225	438	746	585	219	133	87	68	90
26	495	430	200	219	402	812	590	213	129	86	87	177
27	500	360	172	216	374	895	566	205	125	86	88	269
28	84	330	254	210	363	1000	472	393	125	83	87	69
29	74	308	462	225	---	1120	328	615	124	82	68	86
30	76	292	438	318	---	1150	360	615	120	82	57	92
31	82	---	438	291	---	1170	---	595	---	85	58	---
TOTAL	10856	9672	6505	10320	9951	22819	25475	11302	7312	3075	1856	2890
MEAN	350	322	210	333	355	736	849	365	244	99.2	59.9	96.3
MAX	500	1540	462	734	698	1170	1240	615	476	118	123	269
MIN	74	78	116	210	258	307	328	205	120	82	38	43
AC-FT	21530	19180	12900	20470	19740	45260	50530	22420	14500	6100	3680	5730

CAL YR 1965 TOTAL 433416 MEAN 1187 MAX 13200 MIN 74 AC-FT 859700
WTR YR 1966 TOTAL 122033 MEAN 334 MAX 1540 MIN 38 AC-FT 242100

NOTE.--NO GAGE-HEIGHT RECORD OCT. 1 TO NOV. 5.

11433300 MIDDLE FORK AMERICAN RIVER NEAR FORESTHILL, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	116	963	884	3110	1660	2340	2160	2510	2510	1100	1000
2	84	70	2680	884	2380	1660	2280	2100	2560	2260	1100	605
3	96	70	2780	884	1900	1700	2220	2250	2440	2440	1100	188
4	96	214	1180	878	1750	1610	2240	2520	2330	2140	1100	51
5	100	120	2850	884	1670	1650	1670	2340	2630	1920	1100	400
6	623	122	3800	872	1650	1630	2450	2600	2460	1720	1100	1060
7	107	82	2180	872	2230	1630	2930	3130	2400	1540	1100	1040
8	101	92	1300	866	2130	1630	2660	3750	2330	1320	1090	1050
9	66	78	887	872	2080	1650	2580	4200	2240	1280	1090	722
10	493	70	830	872	1770	1680	2630	5080	2260	1260	1100	112
11	379	136	818	872	1640	1900	2690	3990	2160	1270	1090	580
12	337	80	764	872	1630	2030	2550	3550	2380	1260	1080	480
13	223	80	630	872	1840	2040	2490	3350	3050	1720	914	605
14	299	67	535	287	1990	1960	2520	3370	2870	1740	1080	605
15	352	94	540	230	1890	1930	2480	3830	2860	1710	1050	770
16	67	342	644	347	1850	9240	2390	4580	3270	1670	1060	98
17	67	222	848	269	1960	9120	2240	5000	3870	1510	1060	722
18	516	212	536	230	1920	5880	2550	3700	4280	1210	1060	758
19	514	118	854	228	1890	4420	2800	4300	3870	1170	1070	620
20	642	598	1020	290	1780	3850	2460	4500	3550	1170	218	620
21	699	746	908	5010	1780	3490	2650	4600	3390	1160	944	610
22	232	596	896	3150	1760	3470	2980	4750	4500	1160	1050	610
23	133	161	433	2050	1740	3810	2900	4550	3870	1160	1060	340
24	226	194	290	1800	1660	3650	3050	4250	3250	1150	1060	68
25	332	251	291	1800	1690	3040	3150	4320	3370	1140	1070	248
26	525	172	290	1550	1690	3000	3020	3900	3510	1150	252	65
27	266	125	333	2200	1670	2800	2940	3450	3650	1100	324	55
28	414	566	896	2650	1650	2720	2910	3250	3410	1140	1050	68
29	131	1770	896	8060	---	2620	2400	2980	2690	1140	1020	295
30	88	1270	896	5420	---	2360	1950	2690	2660	1120	1030	356
31	118	---	896	4850	---	2280	---	2620	---	1110	1060	---
TOTAL	8404	8834	33664	51805	52700	92110	77120	111660	90620	45350	30582	14801
MEAN	271	294	1086	1671	1882	2971	2571	3602	3021	1463	987	493
MAX	699	1770	3800	8060	3110	9240	3150	5080	4500	2510	1100	1060
MIN	66	67	290	228	1630	1610	1670	2100	2160	1100	218	51
AC-FT	16670	17520	66770	102800	104500	182700	153000	221500	179700	89950	60660	29360

CAL YR 1966 TOTAL 145902 MEAN 400 MAX 3800 MIN 38 AC-FT 289400
WTR YR 1967 TOTAL 617650 MEAN 1692 MAX 9240 MIN 51 AC-FT 1225000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	215	1080	193	684	1420	1370	682	474	778	393	97
2	571	506	1070	573	836	1050	1240	690	294	639	384	97
3	1190	317	1070	542	701	975	1200	930	735	780	95	765
4	1080	96	1100	632	470	1250	1140	582	603	139	110	723
5	1060	102	1280	551	872	1230	1140	417	467	574	490	814
6	1020	539	1130	353	1080	1070	880	684	557	152	154	828
7	803	724	1190	184	950	983	823	715	631	153	92	405
8	75	804	1160	645	807	1210	998	722	238	702	257	90
9	762	615	1120	554	937	877	980	643	262	137	245	642
10	895	647	1120	662	837	782	1060	614	678	573	69	795
11	998	259	1100	847	689	1080	1030	343	506	331	69	909
12	998	265	1070	587	653	1010	1440	329	454	260	70	759
13	924	343	1050	224	750	897	853	743	538	128	307	902
14	67	67	1020	205	854	1160	790	664	694	140	525	210
15	72	74	1040	2090	862	1100	1100	698	177	200	500	76
16	630	66	279	1370	715	969	1250	768	193	140	520	759
17	361	77	89	939	1570	1080	1240	876	562	118	105	874
18	151	183	360	778	1710	1250	1320	360	608	387	96	874
19	70	285	662	694	1670	1210	1310	296	484	116	587	821
20	411	607	752	354	5430	1120	594	600	432	134	648	821
21	69	674	793	352	4610	1110	557	667	356	99	510	143
22	70	459	758	631	3350	1090	954	572	438	126	535	93
23	772	409	190	731	3830	908	755	564	163	137	555	795
24	1040	612	178	586	2920	841	804	688	483	119	535	441
25	997	1050	214	602	2170	1130	701	292	460	282	248	795
26	990	1010	268	732	1760	1240	1010	261	469	114	642	723
27	758	1050	331	732	1530	1160	599	602	393	121	881	821
28	989	1060	713	430	1360	1150	492	728	361	112	854	88
29	757	1060	392	840	1460	1230	693	747	150	134	808	87
30	256	1100	228	878	---	1130	681	408	148	94	723	783
31	159	---	234	923	---	1110	---	764	---	120	97	---
TOTAL	19060	15275	23041	20414	46067	33822	29004	18649	13008	8039	12104	17030
MEAN	615	509	743	659	1589	1091	967	602	434	259	390	568
MAX	1190	1100	1280	2090	5430	1420	1440	930	735	780	881	909
MIN	65	66	89	184	470	782	492	261	148	94	69	76
AC-FT	37810	30300	45700	40490	91370	67090	57530	36990	25800	15950	24010	33780

CAL YR 1967 TOTAL 624124 MEAN 1710 MAX 9240 MIN 51 AC-FT 1238000
WTR YR 1968 TOTAL 255513 MEAN 698 MAX 5430 MIN 65 AC-FT 506800

11433300 MIDDLE FORK AMERICAN RIVER NEAR FORESTHILL, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	902	882	212	384	2530	2190	4280	2940	1590	1100	986	1050
2	923	348	747	864	2240	2110	4090	2830	1530	1100	986	992
3	874	792	729	957	2200	2050	3670	2670	1660	1100	968	1040
4	860	914	587	431	2100	1950	3420	2110	1830	848	950	1050
5	165	1020	741	441	2060	1890	4530	2000	1800	752	1000	1060
6	70	472	810	998	2200	1900	4020	2690	1730	605	920	1050
7	759	440	390	1080	2150	1780	3540	2760	1730	863	1020	882
8	860	1050	99	1200	1890	1870	3350	2680	1800	1080	1000	1060
9	895	216	463	833	1940	1740	3210	2980	1460	1090	1020	708
10	860	148	836	1270	1950	1710	3210	3360	1380	1060	1020	1040
11	916	335	1190	727	2240	1690	3360	3470	1380	1080	1080	973
12	139	870	899	699	2800	1690	3570	3500	1380	1080	334	980
13	172	999	874	3140	2460	1660	3510	2660	1420	1070	514	102
14	822	938	693	3830	2380	1740	3360	2580	1550	1070	1020	449
15	961	1000	649	2210	3150	1770	3150	2940	1760	1070	1020	1050
16	933	276	1170	1710	3130	1820	3000	2800	2350	947	1020	1050
17	912	191	984	1420	2740	1920	2830	2910	2430	1060	1020	1050
18	846	850	916	960	2560	2000	3510	2940	1770	1060	1050	1050
19	235	1070	901	9030	2390	2090	3400	2700	1890	1060	1020	1050
20	156	1010	1110	15900	2280	2140	3080	2440	1730	1050	1050	192
21	719	990	1000	18500	2190	2200	3640	2410	1690	1030	1030	138
22	789	933	987	9000	2070	2150	3960	2480	1510	1050	962	491
23	302	220	1010	5000	2120	2280	4280	2440	1370	927	1030	1020
24	312	183	1230	4100	2220	1680	3660	2360	1250	1040	1040	1030
25	85	848	1530	9200	2260	2400	3220	2190	1210	1030	1040	1020
26	102	910	1270	12200	2210	2590	2970	2090	1200	1010	1050	956
27	86	944	1380	7000	2070	2850	2440	1910	1160	1020	1050	84
28	629	165	604	4500	2170	3210	2800	1870	1130	1020	1050	113
29	890	802	579	3580	---	3510	3120	1790	1120	986	1060	718
30	924	182	1050	3130	---	3930	2950	1680	1100	992	1050	1030
31	893	---	961	2620	---	4290	---	1630	---	986	1030	---
TOTAL	18991	19998	26601	126914	64700	68800	103130	78810	46910	31236	30390	24518
MEAN	613	667	858	4094	2311	2219	3438	2542	1564	1008	980	817
MAX	961	1070	1530	18500	3150	4290	4530	3500	2430	1100	1080	1060
MIN	70	148	99	384	1890	1660	2440	1630	1100	605	334	84
AC-FT	37670	39670	52760	251700	128300	136500	204600	156300	93050	61960	60280	48630

CAL YR 1968 TOTAL 263727 MEAN 721 MAX 5430 MIN 69 AC-FT 523100
WTR YR 1969 TOTAL 640998 MEAN 1756 MAX 18500 MIN 70 AC-FT 1271000

NOTE.--NO GAGE-HEIGHT RECORD JAN. 20-28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	963	881	1010	1380	2830	2480	901	491	524	633	989	1000
2	906	881	839	1330	2600	2240	1090	483	556	548	715	1020
3	906	888	434	1300	2440	2080	1080	483	971	197	875	1020
4	102	970	474	1270	2070	2040	495	483	816	171	810	1020
5	88	1060	171	1260	1860	1800	472	483	1280	176	970	1000
6	694	1180	133	1240	1850	1980	909	591	584	171	989	1030
7	976	1100	118	1240	2000	1960	628	570	658	148	989	1020
8	407	1090	504	1240	1900	2220	665	556	1380	263	989	1030
9	56	1080	543	1480	1620	2120	727	456	1470	363	989	1030
10	50	1040	699	1980	1490	1960	696	456	1300	355	963	1030
11	48	1050	804	1220	1610	1880	591	535	1410	355	931	1030
12	48	976	787	1760	1900	1810	507	520	1400	345	1050	585
13	373	1080	272	2880	2040	1800	719	491	1050	212	1130	1050
14	828	1040	235	7740	2060	1910	696	556	620	118	1040	1040
15	919	1040	715	4470	1930	1330	658	487	980	120	653	1040
16	804	1060	737	14500	1970	1150	696	434	1410	176	931	1040
17	1090	1060	705	10000	2730	1160	696	399	1410	504	919	1040
18	219	1040	689	4960	2290	1070	606	528	1410	684	1000	1020
19	133	1040	919	3340	2140	1280	613	495	1420	474	996	1040
20	653	1030	2710	4180	2060	1540	628	499	563	833	1010	1040
21	900	1030	4950	19100	1970	989	650	479	212	888	1040	1040
22	875	1020	2460	17300	1910	944	681	483	260	950	1000	1040
23	875	1020	1960	8980	1870	1450	628	338	217	1030	1020	1040
24	822	1020	7600	10300	1820	1480	650	335	202	1080	1010	1040
25	888	1020	4980	6830	1210	1420	483	452	197	1020	1040	1040
26	881	1020	2990	4860	1760	1370	520	449	470	857	1030	1040
27	881	1020	2070	7640	1760	1400	643	487	275	900	1100	1050
28	881	1020	1740	5400	1780	759	620	487	249	804	1150	1020
29	881	1010	1590	4180	---	735	743	468	828	1020	1140	1060
30	881	1010	1480	3540	---	1120	487	452	616	869	881	1050
31	888	---	1430	3130	---	1160	---	449	---	833	863	---
TOTAL	19916	30776	46748	160030	55470	48637	20178	14875	24738	17097	30212	30545
MEAN	642	1026	1508	5162	1981	1569	673	480	825	552	975	1018
MAX	1090	1180	7600	19100	2830	2480	1090	591	1470	1080	1150	1060
MIN	48	881	118	1220	1210	735	472	335	197	118	653	585
AC-FT	39500	61040	92720	317400	110000	96470	40020	29500	49070	33910	59930	60590

CAL YR 1969 TOTAL 672848 MEAN 1843 MAX 18500 MIN 48 AC-FT 1335000
WTR YR 1970 TOTAL 499222 MEAN 1368 MAX 19100 MIN 48 AC-FT 990200

11433400 CANYON CREEK NEAR GEORGETOWN, CALIF.

LOCATION.--Lat 38°56'03", long 120°52'21", in SW¼NW¼ sec.33, T.13 N., R.10 E., El Dorado County, Eldorado National Forest, on right bank 0.7 mile downstream from West Canyon and 2.6 miles northwest of Georgetown.

DRAINAGE AREA.--12.5 sq mi.

PERIOD OF RECORD.--July 1966 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 1,995 ft (from topographic map).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (250 cfs), July 1966 to September 1970

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
1966	-	-	-	Feb. 21, 1968	0700	*231	7.55	Feb. 15, 1969	1630	253	7.71
Jan. 21, 1967	2315	*970	10.40	Jan. 13, 1969	2330	366	8.45	Dec. 20, 1969	1130	386	8.53
Jan. 29, 1967	0845	517	9.09	Jan. 20, 1969	0300	*1,050	10.58	Dec. 24, 1969	0515	490	9.00
Jan. 31, 1967	1145	260	7.76	Jan. 22, 1969	0015	912	10.29	Jan. 14, 1970	1215	1,220	10.88
Mar. 16, 1967	1115	649	9.53	Jan. 26, 1969	0500	631	9.48	Jan. 16, 1970	1000	970	10.40
Apr. 6, 1967	2315	296	8.01	Feb. 12, 1969	0530	318	8.15	Jan. 21, 1970	1845	*1,300	11.01

Annual minimum daily discharge, July 1966 to September 1970

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Aug. 18-21, 23-25, 1966	1.4	1969	Oct. 23, 1968	2.5
1967	Oct. 1, 4-12, 1966	1.8	1970	Oct. 13, 1969, Sept. 29, 30, 1970	2.8
1968	July 20, 1968	2.1			

Period of record: Maximum discharge, 1,300 cfs Jan. 21, 1970 (gage height, 11.01 ft); minimum daily, 1.4 cfs Aug. 18-21, 23-25, 1966.

REMARKS.--Records good except those for period of no gage-height record Apr. 1 to May 14, 1969, which are fair. Small diversions above station for irrigation and domestic purposes. See schematic diagram of Middle Fork American and Rubicon River basins elsewhere in this report. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, JULY TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										0	2.6	2.3
2										0	2.3	2.1
3										0	2.2	1.8
4										0	1.9	1.5
5										0	1.7	1.9
6										0	1.7	1.9
7										0	1.7	1.9
8										0	1.5	2.0
9										0	1.6	2.1
10										0	2.3	2.1
11										0	2.4	2.2
12										0	2.3	2.2
13										0	2.2	2.1
14										0	2.2	2.0
15										0	2.1	1.8
16										0	2.0	2.0
17										0	1.6	2.1
18										0	1.4	2.2
19										0	1.4	2.6
20										0	1.4	2.7
21										0	1.4	2.6
22										0	1.5	2.7
23										0	1.4	2.7
24										0	1.4	2.8
25										0	1.4	2.3
26										2.1	1.6	2.2
27										1.9	1.9	2.4
28										2.1	2.0	2.3
29										3.0	2.0	2.4
30										3.0	2.0	2.0
31										3.0	2.1	---
TOTAL										15.1	57.2	65.9
MEAN										.49	1.85	2.20
MAX										3.0	2.6	2.8
MIN										0	1.4	1.5
AC-FT										30	113	131

11433400 CANYON CREEK NEAR GEORGETOWN, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	3.2	43	7.6	101	9.4	53	48	23	9.1	5.5	5.1
2	2.0	2.3	89	7.6	55	9.6	52	46	21	8.6	5.4	5.0
3	2.0	2.6	31	7.4	40	9.7	48	41	19	8.3	5.1	4.4
4	1.8	3.0	23	7.4	32	10	49	37	17	8.0	5.1	3.8
5	1.8	3.6	110	8.1	27	9.5	61	36	23	7.9	4.6	3.7
6	1.8	12	118	7.4	24	9.3	125	34	18	7.6	4.6	3.6
7	1.8	6.4	63	7.2	20	9.1	173	31	17	7.7	4.6	3.5
8	1.8	4.1	39	8.2	18	9.0	91	30	15	8.6	4.6	3.3
9	1.8	3.3	25	7.5	18	8.9	67	33	15	8.6	4.7	3.4
10	1.8	3.9	22	6.9	18	10	61	51	16	8.4	4.7	3.4
11	1.8	3.9	18	6.9	17	18	62	43	16	7.6	4.9	3.9
12	1.8	3.9	16	6.9	16	87	60	37	17	7.2	4.4	4.4
13	1.9	4.4	15	6.7	15	68	55	35	17	7.1	4.1	4.3
14	2.3	4.4	15	4.8	16	48	50	33	14	6.9	4.0	4.1
15	2.3	5.0	14	4.5	15	52	48	28	13	6.9	4.5	4.2
16	2.4	17	13	4.6	14	370	43	28	13	6.7	6.0	4.3
17	2.4	6.9	12	4.6	13	150	55	25	12	6.5	5.9	4.4
18	2.4	5.3	11	4.6	13	74	91	25	12	6.4	5.9	6.0
19	2.4	13	11	4.6	14	49	86	23	12	6.4	5.8	5.4
20	2.4	4.1	10	16	13	38	81	21	12	6.4	5.6	5.2
21	2.4	39	9.9	361	12	34	73	20	11	6.1	5.9	5.1
22	2.6	16	9.7	245	11	34	67	20	11	5.9	5.9	5.0
23	2.6	8.8	9.4	46	10	35	90	19	11	5.7	5.9	6.1
24	2.8	6.2	9.3	70	9.2	34	114	19	10	5.9	5.8	5.4
25	2.6	6.9	9.1	67	13	29	90	19	10	5.7	6.6	4.6
26	3.8	6.0	9.0	59	12	30	75	24	9.6	6.0	7.1	4.4
27	4.8	7.9	8.4	74	11	28	71	23	9.4	6.4	5.6	4.2
28	3.1	10	8.3	75	9.1	28	62	21	9.8	6.1	5.9	4.2
29	2.7	19	9.2	258	---	27	55	21	10	6.1	5.4	4.0
30	3.1	11	8.6	141	---	29	51	20	9.8	5.8	5.3	3.7
31	3.2	---	7.7	194	---	42	---	21	---	5.6	5.2	---
TOTAL	74.2	243.1	796.6	1729.5	586.3	1398.5	2159	912	423.6	216.2	164.6	132.1
MEAN	2.39	8.10	25.7	55.8	20.9	45.1	72.0	29.4	14.1	6.97	5.31	4.40
MAX	4.8	39	118	361	101	370	173	51	23	9.1	7.1	6.1
MIN	1.8	2.3	7.7	4.5	9.1	8.9	43	19	9.4	5.6	4.0	3.3
AC-FT	147	482	1580	3430	1160	2770	4280	1810	840	429	326	262

WTR YR 1967 TOTAL 8835.7 MEAN 24.2 MAX 370 MIN 1.8 AC-FT 17530

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	3.7	8.9	6.1	13	16	16	6.7	5.4	2.6	4.8	5.6
2	9.9	3.9	14	5.5	19	16	16	6.6	5.2	2.6	4.9	5.5
3	16	3.6	17	5.0	38	15	14	6.4	5.7	2.8	4.7	5.5
4	6.7	4.1	30	5.0	32	14	14	6.3	5.7	4.0	4.4	5.6
5	5.8	4.8	61	5.3	30	14	13	7.6	5.2	4.1	4.4	5.6
6	5.2	4.8	15	5.0	30	13	13	6.7	5.6	3.9	4.3	5.6
7	4.2	3.6	34	4.8	29	14	12	6.7	7.4	3.5	3.5	5.5
8	4.2	3.4	20	5.0	24	20	12	6.9	7.1	3.6	3.0	5.4
9	4.1	3.4	8.5	5.5	25	16	12	6.2	6.0	3.9	3.4	5.5
10	4.2	3.8	7.7	39	24	14	11	6.0	5.1	3.9	3.8	5.6
11	4.5	3.8	10	21	20	13	11	6.0	4.7	3.5	4.1	5.6
12	5.0	3.8	9.1	12	18	12	9.7	6.1	4.7	3.1	4.0	5.6
13	6.0	3.9	7.4	10	17	26	9.7	9.8	7.3	2.9	4.4	4.8
14	5.9	11	5.6	12	18	36	9.9	16	7.1	3.1	4.7	4.6
15	5.8	12	7.7	75	17	29	9.4	11	4.2	3.1	4.6	4.7
16	5.5	3.9	4.8	38	18	47	13	9.8	3.8	6.3	4.4	4.6
17	5.8	5.7	4.3	21	48	48	14	9.4	3.4	4.9	4.4	4.8
18	5.9	10	8.4	12	33	31	10	9.1	3.3	2.2	4.5	4.7
19	6.4	26	6.8	15	30	24	8.3	9.3	3.3	2.3	10	4.3
20	8.8	9.4	4.8	14	116	21	8.0	8.1	3.2	2.1	6.6	4.4
21	8.9	4.4	5.5	12	130	22	7.8	7.3	3.2	2.6	7.4	4.5
22	8.9	8.9	6.8	12	57	21	7.4	6.6	3.2	3.0	8.8	4.6
23	9.1	8.9	5.0	9.1	43	20	7.0	8.6	3.0	3.1	9.4	4.7
24	7.1	8.6	7.1	8.6	35	19	6.8	10	3.3	3.0	8.5	4.7
25	4.0	9.1	10	8.4	30	20	7.4	9.5	3.2	2.7	6.7	4.6
26	3.7	8.4	11	8.6	24	19	7.3	8.1	3.1	2.8	6.0	4.7
27	4.1	8.6	16	9.1	21	17	7.0	7.9	2.7	2.8	5.9	4.6
28	4.2	10	14	10	17	16	7.4	7.8	2.7	2.8	6.0	4.6
29	4.3	15	6.8	10	15	15	6.3	7.4	2.7	2.8	5.8	4.4
30	4.4	17	6.1	16	---	14	6.5	6.5	2.7	3.1	5.6	4.9
31	4.1	---	9.7	14	---	14	---	5.8	---	3.5	5.4	---
TOTAL	187.1	227.5	383.0	434.0	971	636	306.9	246.2	133.2	100.6	168.4	149.8
MEAN	6.04	7.58	12.4	14.0	33.5	20.5	10.2	7.94	4.44	3.25	5.43	4.99
MAX	16	26	61	75	130	48	16	16	7.4	6.3	10	5.6
MIN	3.7	3.4	4.3	4.8	13	12	6.3	5.8	2.7	2.1	3.0	4.3
AC-FT	371	451	760	861	1930	1260	609	488	264	200	334	297

CAL YR 1967 TOTAL 8519.4 MEAN 23.3 MAX 370 MIN 3.3 AC-FT 16900
WTR YR 1968 TOTAL 3943.7 MEAN 10.8 MAX 130 MIN 2.1 AC-FT 7820

11433400 CANYON CREEK NEAR GEORGETOWN, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	6.9	13	13	54	171	28	18	12	8.0	5.8	4.7
2	5.0	15	12	12	51	132	28	18	12	7.9	6.0	4.4
3	6.2	29	9.6	11	48	119	32	17	12	7.5	5.6	4.1
4	7.1	12	8.6	11	46	101	31	17	11	7.3	5.3	4.1
5	6.6	5.5	11	10	111	89	72	17	11	7.0	5.4	4.1
6	5.0	3.9	14	9.5	133	81	58	17	11	6.9	5.3	4.0
7	4.8	6.5	10	9.1	94	73	48	17	11	7.7	5.2	4.2
8	4.3	7.6	15	9.1	73	66	43	16	11	8.2	5.2	5.0
9	5.0	7.3	12	8.6	75	63	39	16	11	8.0	5.2	4.9
10	5.0	7.2	19	8.0	71	59	35	16	11	7.3	5.3	4.7
11	5.1	7.8	28	22	99	53	31	15	12	7.1	5.3	4.7
12	12	22	14	43	222	50	29	15	12	7.0	5.0	4.7
13	6.9	12	12	185	112	48	27	15	12	6.9	4.8	4.6
14	5.3	5.3	29	163	101	45	26	14	12	6.5	4.8	4.6
15	6.5	16	32	42	187	43	24	14	11	9.5	4.7	4.7
16	6.1	11	28	26	146	41	23	14	11	6.0	4.5	4.8
17	5.3	8.7	11	20	105	41	23	13	11	5.6	4.5	4.8
18	4.8	9.6	8.7	28	94	40	23	13	11	6.3	4.3	4.6
19	4.4	8.0	12	366	83	38	22	13	10	5.8	4.3	4.9
20	6.5	6.7	11	747	78	40	22	13	9.6	5.5	4.3	4.8
21	2.7	6.4	9.1	561	73	44	22	12	9.2	5.4	4.4	4.7
22	2.6	6.3	9.2	338	65	38	22	12	8.9	5.2	4.8	4.7
23	2.5	6.3	10	106	70	36	45	12	8.9	5.6	4.9	4.6
24	7.1	9.0	44	102	102	35	35	12	9.2	5.5	4.3	4.4
25	8.3	8.1	105	363	129	34	27	14	9.0	5.4	3.8	4.4
26	7.2	8.5	50	339	121	33	24	19	8.7	5.3	4.8	4.2
27	6.6	8.2	26	143	101	31	22	15	8.5	5.3	4.9	3.7
28	6.6	7.8	27	108	161	30	21	13	8.1	5.9	4.9	3.6
29	7.9	7.6	25	80	---	29	20	12	7.7	6.0	5.1	3.4
30	10	9.4	19	66	---	29	19	13	7.5	6.0	5.0	3.3
31	7.3	---	15	55	---	28	---	12	---	5.9	4.9	---
TOTAL	185.5	285.6	649.2	4004.3	2805	1760	921	454	310.3	203.5	152.6	132.4
MEAN	5.98	9.52	20.9	129	100	56.8	30.7	14.6	10.3	6.56	4.92	4.41
MAX	12	29	105	747	222	171	72	19	12	9.5	6.0	5.0
MIN	2.5	3.9	8.6	8.0	46	28	19	12	7.5	5.2	3.8	3.3
AC-FT	368	566	1290	7940	5560	3490	1830	901	615	404	303	263

CAL YR 1968 TOTAL 4266.4 MEAN 11.7 MAX 130 MIN 2.1 AC-FT 8460
WTR YR 1969 TOTAL 11863.4 MEAN 32.5 MAX 747 MIN 2.5 AC-FT 23530

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	9.5	8.9	20	45	88	18	15	7.7	8.4	4.2	4.0
2	4.1	8.3	8.9	18	39	61	17	13	7.5	8.1	4.0	3.8
3	6.9	8.6	8.9	18	35	42	17	12	7.7	7.7	3.9	3.9
4	7.7	8.0	8.9	17	33	43	16	12	7.4	7.4	3.9	4.1
5	7.5	19	8.9	16	30	42	23	11	7.3	7.4	3.8	4.3
6	7.6	32	8.9	16	28	36	26	11	7.4	6.9	3.9	4.1
7	5.4	9.2	8.8	16	29	33	24	11	7.7	6.8	4.3	4.1
8	3.5	9.0	10	17	28	89	29	12	8.5	6.5	3.9	3.8
9	5.9	11	11	26	26	67	28	12	10	6.0	4.5	3.9
10	5.6	10	14	53	26	75	27	12	8.1	5.7	4.9	4.0
11	4.3	9.6	23	25	25	63	26	13	7.4	5.4	5.2	3.9
12	2.9	9.4	13	28	27	52	26	12	7.5	5.1	4.9	3.8
13	2.8	9.2	11	52	54	45	28	12	7.8	5.0	4.5	3.9
14	2.9	9.1	12	384	73	41	29	11	7.9	6.2	4.4	4.1
15	11	9.0	10	102	42	38	21	11	7.7	6.2	4.5	4.1
16	24	9.6	9.2	485	57	36	16	10	7.8	5.8	4.5	4.1
17	11	9.2	8.6	328	118	34	14	10	8.0	5.8	4.3	4.3
18	15	9.0	8.4	114	64	31	14	10	8.0	5.5	4.0	4.6
19	6.4	9.1	32	81	50	29	15	9.9	7.7	5.1	4.1	4.9
20	3.9	9.1	117	95	43	28	14	9.3	6.9	5.0	4.4	5.3
21	4.7	9.1	117	665	37	26	14	9.3	6.8	4.9	4.6	4.7
22	4.3	9.1	37	303	33	25	13	9.5	7.2	4.9	4.5	3.5
23	5.8	8.9	52	132	31	24	13	8.9	7.1	4.7	4.5	3.3
24	5.7	8.9	269	161	29	24	13	8.6	6.9	4.4	4.7	3.1
25	5.4	8.9	86	113	27	23	12	8.4	7.0	4.5	3.9	3.0
26	5.9	8.9	42	82	25	22	13	8.3	7.8	4.1	3.8	2.9
27	5.8	8.8	30	164	24	20	14	8.4	7.9	3.9	4.1	2.9
28	5.7	8.6	22	104	26	20	13	8.4	8.0	3.9	4.2	2.9
29	5.6	8.6	18	77	---	20	12	8.4	8.4	4.2	4.3	2.8
30	5.9	8.9	15	64	---	19	15	8.3	8.6	4.2	4.2	2.8
31	9.7	---	15	53	---	18	---	7.9	---	4.1	4.1	---
TOTAL	206.5	305.6	1044.4	3829	1104	1214	560	323.6	231.7	173.8	133.0	114.9
MEAN	6.66	10.2	33.7	124	39.4	39.2	18.7	10.4	7.72	5.61	4.29	3.83
MAX	24	32	269	665	118	89	29	15	10	8.4	5.2	5.3
MIN	2.8	8.0	8.4	16	24	18	12	7.9	6.8	3.9	3.8	2.8
AC-FT	410	606	2070	7590	2190	2410	1110	642	460	345	264	228

CAL YR 1969 TOTAL 12299.6 MEAN 33.7 MAX 747 MIN 2.8 AC-FT 24400
WTR YR 1970 TOTAL 9240.5 MEAN 25.3 MAX 665 MIN 2.8 AC-FT 18330

11433500 MIDDLE FORK AMERICAN RIVER NEAR AUBURN, CALIF.

LOCATION.--Lat 38°55'05", long 121°00'51", in NE¼SW¼ sec.6, T.12 N., R.9 E., Placer County, on right bank at Mountain Quarry Co. plant, 1.4 miles upstream from mouth and 3.3 miles northeast of Auburn.

DRAINAGE AREA.--614 sq mi (revised).

PERIOD OF RECORD.--October 1911 to September 1970. Prior to October 1934, published as "near East Auburn."

GAGE.--Water-stage recorder. Datum of gage is 552.35 ft above mean sea level (levels by Murray Engineers). Prior to December 1930, nonrecording gages near present site at different datums. December 1930 to Mar. 1, 1963, water-stage recorder at site 0.4 mile upstream at different datum.

AVERAGE DISCHARGE.--59 years, 1,347 cfs (975,900 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Nov. 18, 1965	2,240	9.23	Aug. 13, 1966	36
1967	Mar. 16, 1967	14,500	a17.6	Oct. 17, 1966	60
1968	Feb. 20, 1968	8,060	13.84	Aug. 11, 12, 1968	62
1969	Jan. 20, 1969	27,700	a23.1	Oct. 27, 1968	115
1970	Jan. 21, 1970	37,000	26.34	Oct. 11, 12, 1969	80

a From floodmarks.

Period of record: Maximum discharge, 253,000 cfs Dec. 23, 1964 (gage height, 60.4 ft, from floodmarks), from rating curve extended above 69,000 cfs on basis of slope-area measurement of peak flow (caused by overtopping of the partly constructed Hell Hole Dam); next highest peak, 121,000 cfs Feb. 1, 1963 (gage height, 43.1 ft, from floodmarks, site and datum then in use); minimum, 20 cfs Sept. 6, 1931, Sept. 19, 1934.

REMARKS.--Records good. No gage-height record Mar. 16-29, 1967. Natural flow of stream affected by French Meadows Reservoir (see station 11427400), Hell Hole Reservoir (see station 11428700), Loon Lake (see station 11429350), Stumpy Meadows Lake (usable capacity, 20,000 acre-ft), diversion dams on Rubicon and Little Rubicon Rivers, and by Ralston and Oxbow powerplants. Robbs Peak powerplant (see station 11429300) diverts water out of basin. See schematic diagram of Middle Fork American and Rubicon River basins elsewhere in this report. Water-quality records for the water years 1966-67 are published in reports of the Geological Survey.

REVISIONS (WATER YEARS).--WSP 861: 1928. WSP 1315-A: 1913-15, 1919, 1921, 1923(M), 1929(M), 1930.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	345	115	350	612	426	450	1310	462	570	138	82	58
2	345	120	330	444	426	450	1350	480	510	130	91	58
3	350	120	320	366	378	420	1270	486	408	130	50	58
4	345	120	315	384	378	390	1210	504	270	127	82	58
5	355	120	305	1020	474	390	1150	672	255	127	97	58
6	360	115	305	1150	1120	390	1110	366	225	124	76	56
7	360	115	295	878	906	420	1100	438	220	121	52	56
8	360	120	240	726	696	510	1050	432	270	121	60	56
9	360	130	205	660	576	558	983	426	420	118	62	58
10	360	135	195	582	516	906	1060	325	402	115	60	58
11	360	130	185	510	468	1240	1270	355	408	115	64	58
12	360	125	230	462	432	1050	1350	390	396	112	50	60
13	396	145	200	420	408	1120	1250	372	384	112	36	174
14	420	280	185	402	390	1230	1120	340	270	112	38	119
15	462	372	170	402	372	1160	1030	330	230	109	38	50
16	456	360	145	402	360	1090	1010	320	360	100	38	169
17	432	438	140	402	350	955	1010	310	350	85	40	88
18	432	1530	135	378	345	857	1000	355	340	91	40	82
19	450	1490	130	360	360	857	999	468	340	94	40	128
20	480	774	125	340	378	843	794	444	340	97	50	163
21	480	606	120	325	378	787	801	355	315	100	42	93
22	486	486	125	315	378	768	708	325	174	100	42	154
23	510	480	135	310	432	756	672	300	158	100	40	103
24	510	788	150	300	570	794	648	285	162	97	40	124
25	510	750	578	285	558	857	648	270	162	94	41	88
26	510	588	360	275	516	920	654	265	158	91	66	117
27	510	480	285	270	480	997	636	250	154	85	85	268
28	325	432	315	270	450	1090	588	300	154	85	85	147
29	130	396	976	290	---	1190	366	618	146	82	85	79
30	105	372	836	510	---	1250	396	660	138	82	68	94
31	105	---	857	456	---	1270	---	666	---	82	58	---
TOTAL	11969	12232	9242	14506	13521	25965	28543	12569	8689	3276	1798	2932
MEAN	386	408	298	468	483	838	951	405	290	106	58.0	97.7
MAX	510	1530	976	1150	1120	1270	1350	672	570	138	97	268
MIN	105	115	120	270	345	390	366	250	138	82	36	50
AC-FT	23740	24260	18330	28770	26820	51500	56620	24930	17230	6500	3570	5820

CAL YR 1965 TOTAL 458644 MEAN 1257 MAX 14400 MIN 105 AC-FT 909700
WTR YR 1966 TOTAL 145242 MEAN 398 MAX 1530 MIN 36 AC-FT 288100

11433500 MIDDLE FORK AMERICAN RIVER NEAR AUBURN, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	134	1120	1000	4640	1670	2790	2430	2670	2710	1150	1080
2	85	94	2600	1000	3390	1650	2830	2450	2640	2380	1130	962
3	94	76	3220	997	2660	1670	2710	2440	2540	2610	1130	242
4	82	85	1430	997	2240	1660	2670	2720	2460	2310	1130	89
5	76	150	3140	997	1980	1620	2300	2610	2600	2080	1120	83
6	276	142	4500	997	1780	1620	2940	3020	2610	1870	1120	1030
7	386	170	3080	983	2400	1580	4050	3210	2530	1610	1110	1100
8	124	76	1780	983	2310	1590	3400	3800	2420	1410	1120	1100
9	68	109	1170	969	2230	1580	3100	4380	2310	1390	1110	1070
10	179	88	1070	955	2010	1610	3050	4950	2310	1330	1110	180
11	408	103	990	955	1780	1960	3050	4260	2230	1330	1100	291
12	407	91	920	948	1760	2390	2880	3820	2340	1320	1110	583
13	320	79	836	948	1890	2600	2830	3560	3060	1720	920	632
14	127	91	717	569	2140	2380	2870	3560	2990	1810	1100	644
15	450	103	638	248	2020	2230	2840	3760	2950	1790	1080	656
16	88	300	572	308	1950	9220	2700	4330	3210	1760	1090	494
17	60	402	969	386	2040	10000	2710	4720	3820	1690	1100	353
18	230	260	780	230	2010	6260	3140	4590	4110	1310	1100	948
19	558	245	759	220	1970	4890	2850	4640	3970	1220	1100	650
20	558	534	1190	260	1850	4260	2770	4780	3670	1210	634	650
21	672	983	1050	5280	1850	3900	2890	5000	3420	1210	599	632
22	444	850	1020	5880	1820	3790	2800	5190	4340	1210	1080	632
23	134	486	759	2280	1770	3740	2940	4780	4100	1210	1100	479
24	134	270	344	1960	1760	3740	3150	4520	3420	1210	1100	206
25	420	182	356	2000	1680	3390	2970	4640	3480	1210	1100	104
26	572	280	356	1630	1730	3120	2830	3920	3620	1200	686	248
27	636	182	332	2330	1710	3100	2830	3620	3740	1140	95	92
28	355	306	857	2920	1640	2960	2710	3320	3640	1200	932	80
29	225	1780	1030	8330	---	2930	2150	3200	3050	1180	1090	95
30	100	1400	1020	6750	---	2660	2450	2830	2510	1180	1070	620
31	88	---	1010	6600	---	2950	---	2750	---	1150	1100	---
TOTAL	8447	10051	39615	60910	59010	98720	86200	117800	92760	47960	31516	16025
MEAN	272	335	1278	1965	2108	3185	2873	3800	3092	1547	1017	534
MAX	672	1780	4500	8330	4640	10000	4050	5190	4340	2710	1150	1100
MIN	60	76	332	220	1640	1580	2150	2430	2230	1140	95	80
AC-FT	16750	19940	78580	120800	117000	195800	171000	233700	184000	95130	62510	31790

CAL YR 1966 TOTAL 169912 MEAN 466 MAX 4500 MIN 36 AC-FT 337000
WTR YR 1967 TOTAL 669014 MEAN 1833 MAX 10000 MIN 60 AC-FT 1327000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	125	144	1200	247	919	1570	1360	689	566	441	192	72
2	229	319	1090	300	954	1300	1390	707	487	672	384	70
3	1350	725	1150	595	1220	1100	1300	902	496	790	211	366
4	1220	104	1260	712	595	1230	1240	869	756	544	87	663
5	1200	105	1790	583	898	1350	1230	441	543	231	180	766
6	1150	242	1400	513	1090	1260	1080	591	559	528	379	808
7	1120	948	1400	346	1170	1100	915	715	608	152	93	512
8	282	746	1340	406	951	1270	1010	796	468	399	75	302
9	414	663	1240	622	1040	1150	1070	667	290	489	372	241
10	1070	794	1210	783	1050	914	1050	675	416	259	70	804
11	1120	460	1190	992	814	1040	1270	515	701	598	62	928
12	1120	276	1140	803	754	1110	1290	355	415	242	62	835
13	1120	554	1100	420	756	1110	1060	589	543	239	63	912
14	417	128	1100	290	929	1340	909	784	604	111	350	615
15	92	104	1060	1820	946	1380	997	663	511	137	470	167
16	380	92	549	1920	772	1300	1310	788	212	164	450	404
17	455	80	274	1040	1460	1480	1280	919	337	110	480	780
18	408	197	240	932	2130	1430	1390	642	584	149	100	830
19	176	155	583	821	1660	1430	1380	351	584	301	100	820
20	89	496	804	623	5740	1350	878	508	712	104	540	820
21	448	715	859	423	5300	1230	614	682	198	97	560	300
22	89	961	878	531	4170	1280	810	664	392	95	500	150
23	449	315	546	742	4180	1160	961	606	390	95	520	350
24	1190	342	186	777	3580	964	747	605	280	97	520	720
25	1120	985	241	887	2580	1080	845	530	477	93	450	500
26	1100	1080	285	503	2100	1370	976	285	481	251	230	750
27	952	1050	345	793	1800	1330	838	480	524	90	650	720
28	1010	1090	512	685	1600	1260	520	605	343	95	804	740
29	1070	1130	602	761	1550	1300	656	777	314	85	753	200
30	264	1250	400	1180	---	1300	667	560	144	98	638	400
31	351	---	277	1230	---	1250	---	636	---	86	369	---
TOTAL	21580	16250	26251	23280	52708	38738	31043	19596	13935	7842	10714	16545
MEAN	696	542	847	751	1818	1250	1035	632	465	253	346	552
MAX	1350	1250	1790	1920	5740	1570	1390	919	756	790	804	928
MIN	89	80	186	247	595	914	520	285	144	85	62	70
AC-FT	42800	32230	52070	46180	104500	76840	61570	38870	27640	15550	21250	32820

CAL YR 1967 TOTAL 674982 MEAN 1849 MAX 10000 MIN 80 AC-FT 1339000
WTR YR 1968 TOTAL 278482 MEAN 761 MAX 5740 MIN 62 AC-FT 552400

11433500 MIDDLE FORK AMERICAN RIVER NEAR AUBURN, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	900	893	207	686	3320	3830	4220	3120	1770	1230	986	1030
2	920	530	490	602	2990	3420	4150	3040	1680	1200	1000	1010
3	880	933	739	993	2880	3180	3860	2850	1760	1160	982	1020
4	870	842	616	691	2740	2940	3540	2430	1910	985	990	1020
5	380	1020	716	455	2960	2770	4650	2280	1960	795	1010	1030
6	120	784	755	739	3520	2660	4520	2680	1860	718	952	1030
7	480	194	776	1040	3360	2440	3870	2890	1800	917	1010	886
8	870	1040	129	1170	2830	2450	3630	2780	1940	1120	1030	1050
9	900	500	155	994	2760	2310	3480	3000	1610	1100	1030	748
10	870	140	784	1260	2690	2240	3340	3420	1520	1120	1030	1030
11	920	234	1320	982	3060	2130	3380	3510	1510	1110	1090	1020
12	464	751	934	957	4500	2080	3650	3650	1520	1100	500	970
13	186	1030	848	2920	3780	1930	3630	2920	1470	1100	450	150
14	483	989	958	4900	3410	1980	3630	2710	1650	1090	1030	270
15	1000	1070	653	2470	4700	1950	3280	3040	1770	1090	1030	1020
16	944	535	1310	1940	4970	1990	3160	2930	2310	994	1030	1030
17	928	228	1020	1540	4070	2070	3180	2940	2660	1100	1030	1040
18	873	656	947	1150	3700	2150	3550	3030	1970	1080	1060	1030
19	528	1110	907	8740	3390	2240	3490	2870	1950	1080	1030	1040
20	168	1040	1130	22900	3160	2280	3230	2530	1870	1070	1060	480
21	382	1030	1010	23400	3050	2390	3640	2470	1730	1050	1040	160
22	880	925	981	14000	2840	2300	4040	2500	1630	1040	970	300
23	360	546	1010	7010	2960	2380	4390	2500	1570	964	1040	1020
24	388	201	1260	5140	3300	1940	3960	2370	1410	1080	1040	1020
25	186	553	2110	10400	3720	2350	3440	2250	1400	1050	1040	1020
26	121	1020	1620	16900	3670	2680	3190	2150	1380	1050	1040	1020
27	115	978	1510	9290	3210	2900	2720	1990	1370	1010	1040	350
28	290	523	967	6490	3510	3220	2830	1930	1340	1020	1030	140
29	741	486	673	4750	---	3520	3220	1890	1300	1020	1020	420
30	914	501	966	4120	---	3870	3200	1840	1260	1010	1040	1030
31	914	---	1050	3450	---	4300	---	1820	---	1000	1020	---
TOTAL	18975	21282	28551	162079	95050	80890	108070	82330	50880	32453	30650	24384
MEAN	612	709	921	5228	3395	2609	3602	2656	1696	1047	989	813
MAX	1000	1110	2110	23400	4970	4300	4650	3650	2660	1230	1090	1050
MIN	115	140	129	455	2690	1930	2720	1820	1260	718	450	140
AC-FT	37640	42210	56630	321500	188500	160400	214400	163300	100900	64370	60790	48370

CAL YR 1968 TOTAL 283209 MEAN 774 MAX 5740 MIN 62 AC-FT 561700
WTR YR 1969 TOTAL 735594 MEAN 2015 MAX 23400 MIN 115 AC-FT 1459000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1020	1040	1030	1610	3100	2790	1550	510	481	732	826	987
2	1030	1040	1030	1550	2820	2650	1020	505	550	583	836	1030
3	1020	1050	480	1490	2620	2310	1230	500	704	378	450	1010
4	175	1050	600	1480	2320	2260	910	500	706	222	778	1000
5	170	1110	200	1460	2060	2060	706	530	1060	221	922	1010
6	900	1260	180	1430	1970	2150	942	520	796	209	922	1010
7	1050	1150	170	1410	2150	2110	856	620	323	216	922	1020
8	550	1120	620	1420	2070	2680	896	580	1140	209	934	1000
9	100	1100	750	1550	1840	2600	818	520	1230	376	940	1020
10	90	1100	870	2430	1660	2290	704	500	1140	380	934	1020
11	80	1070	980	1640	1690	2220	768	570	1180	372	904	1020
12	80	1050	860	1750	1980	2110	610	550	1180	371	928	837
13	400	1070	330	2970	2230	2040	704	530	1090	346	1090	754
14	1000	1070	300	8960	2470	2110	703	580	622	201	1010	1040
15	1090	1070	800	6270	2160	1750	697	520	698	200	814	1050
16	940	1070	760	16300	2140	1420	697	450	1160	200	656	1050
17	1370	1060	740	16100	3300	1390	717	430	1170	210	911	1050
18	450	1060	720	8620	2700	1320	751	540	1170	547	923	1040
19	200	1060	1200	5200	2430	1310	630	520	1170	467	952	1030
20	800	1050	2920	6510	2280	1760	646	520	640	644	948	1040
21	1050	1050	5210	20300	2170	1230	658	510	474	814	983	1050
22	1060	1040	3510	20100	2070	1090	665	440	301	893	956	1040
23	1050	1040	2210	10600	2010	1290	687	370	255	971	975	1040
24	976	1040	8740	10900	1970	1540	706	400	252	802	971	1030
25	1060	1040	5630	7720	1470	1380	569	480	248	916	982	1040
26	1050	1040	3810	5560	1830	1420	548	490	323	820	982	1030
27	1050	1030	2550	8320	1850	1380	616	530	430	760	991	1030
28	1050	1030	2100	6340	1570	1120	681	460	330	760	1100	998
29	1040	1030	1900	4810	---	885	750	500	651	940	1100	1060
30	1050	1030	1740	3950	---	1110	550	417	567	832	1070	1030
31	1050	---	1660	3460	---	1230	---	464	---	868	575	---
TOTAL	24001	32020	54600	192210	60930	55005	22985	15556	22041	16460	28285	30366
MEAN	774	1067	1761	6200	2176	1774	766	502	735	531	912	1012
MAX	1370	1260	8740	20300	3300	2790	1550	620	1230	971	1100	1060
MIN	80	1030	170	1410	1470	885	548	370	248	200	450	754
AC-FT	47610	63510	108300	381200	120900	109100	45590	30860	43720	32650	56100	60230

CAL YR 1969 TOTAL 777407 MEAN 2130 MAX 23400 MIN 80 AC-FT 1542000
WTR YR 1970 TOTAL 554459 MEAN 1519 MAX 20300 MIN 80 AC-FT 1100000

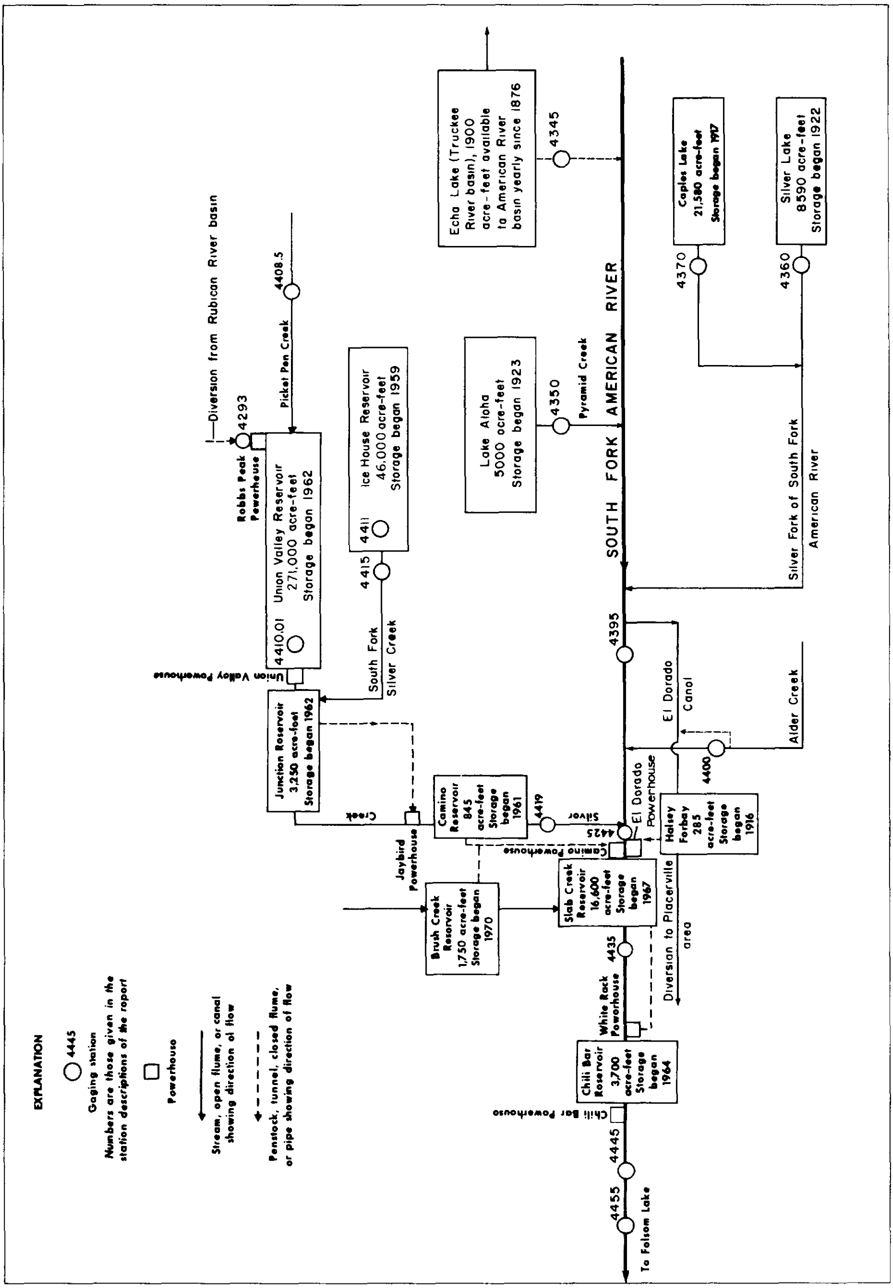

EXPLANATION
4445
Gaging station
Numbers are those given in the station descriptions of the report
Powerhouse
Stream, open flume, or canal showing direction of flow
Penstock, tunnel, closed flume, or pipe showing direction of flow
Diversion from Rubican River basin
4293
Robbs Peak Powerhouse
Picket Pen Creek
4408.5
Union Valley Reservoir 271,000 acre-feet Storage began 1962
4410.01
Union Valley Powerhouse
Ice House Reservoir 46,000 acre-feet Storage began 1959
4411
4415
South Fork Silver Creek
Junction Reservoir 3,250 acre-feet Storage began 1962
Creek
Jaybird Powerhouse
Camino Reservoir 845 acre-feet Storage began 1961
4419
Silver
Camino Powerhouse
Brush Creek Reservoir 1,750 acre-feet Storage began 1970
Slab Creek Reservoir 16,600 acre-feet Storage began 1967
4435
White Rock Powerhouse
Chili Bar Reservoir 3,700 acre-feet Storage began 1964
Chili Bar Powerhouse
4445
4455
To Folsom Lake
Echo Lake (Truckee River basin), 1900 acre-feet available to American River basin yearly since 1876
4345
Lake Aloha 5000 acre-feet Storage began 1923
4350
Pyramid Creek
SOUTH FORK AMERICAN RIVER
Caples Lake 21,580 acre-feet Storage began 1917
4370
Silver Lake 8590 acre-feet Storage began 1922
4360
Silver Fork of South Fork American River
4395
El Dorado Canal
Alder Creek
4400
El Dorado Powerhouse
4425
Halsey Forbay 285 acre-feet Storage began 1916
Diversion to Placerville area

FIGURE 9.--Schematic diagram showing diversions and storage in South Fork American River basin.

11434500 ECHO LAKE CONDUIT NEAR PHILLIPS, CALIF.

LOCATION.--Lat 38°49'52", long 120°02'12", in NW¼ sec.6, T.11 N., R.18 E., El Dorado County, Eldorado National Forest, on right bank in Berkeley Municipal Camp, 0.5 mile downstream from intake and 2.4 miles northeast of Phillips.

PERIOD OF RECORD.--August 1923 to December 1970 (diversion seasons only). Monthly discharge only for July 1933, published in WSP 1315-A. Published as Echo Lake flume near Vade prior to 1943 and as Echo Lake conduit near Vade for seasons 1944-53.

GAGE.--Water-stage recorder. Altitude of gage is 7,420 ft (from topographic map). Prior to July 16, 1929, nonrecording gage at site 0.4 mile upstream at different datum.

EXTREMES.--Period of record: Maximum daily discharge, 31 cfs Sept. 10, 1963; no flow for most of each year.

REMARKS.--No flow except during diversion season for which discharge is published. Conduit diverts from Echo Lake (capacity, 1,900 acre-ft) in Truckee River basin into basin of South Fork American River for power and irrigation. See schematic diagram of South Fork American River basin elsewhere in this report.

COOPERATION.--Gage-height record and 17 discharge measurements for the water years 1966-69 furnished by Pacific Gas & Electric Co., in connection with a Federal Power Commission project; records for the water year 1970 collected by Pacific Gas & Electric Co., under general supervision of the Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEARS OCTOBER 1965 TO SEPTEMBER 1970

SEPT. 8, 1966	18
9	28
10	28
11	27
12	28
13	27
14	18
15	17
16	22
17	28
18	27
19	27
20	26
21	26
22	25
23	24
24	23
25	22
26	20
27	18
28	16
29	15
30	13
OCT. 1	11
2	5.0
21	4.1
22	5.2
23	4.4
24	3.9
25	3.9
26	3.8
27	3.3
28	2.9
29	2.6
30	2.4
31	2.2
NOV. 1	1.8
2	1.6
3	1.5
4	1.4
5	1.3
6	.90
7	.40
8	.50
9	.70
10	.60
SEPT. 26, 1967	12
27	25
28	25
29	25
30	17
OCT. 1	17
2	26
3	24
4	22
5	24
6	24
7	24
8	23
9	23
10	23
11	23
12	22
13	22
14	21
15	21
16	20
17	20
18	19
19	18
20	18
21	17
22	17
23	16
24	15
25	15
OCT. 26, 1967	15
27	14
28	13
29	7.5
NOV. 2	7.5
3	19
4	18
5	16
6	13
7	12
8	8.3
9	6.6
10	6.2
11	5.7
12	5.2
13	6.7
14	6.2
15	5.2
16	6.4
17	7.4
18	6.8
19	6.7
20	6.4
21	6.2
22	5.7
23	5.4
24	4.9
25	4.8
26	4.5
27	4.2
28	4.1
29	4.2
30	4.8
DEC. 1	1.9
SEPT. 16, 1968	11
17	26
18	26
19	27
20	27
21	27
22	28
23	26
24	25
25	28
26	29
27	29
28	28
29	28
30	28
OCT. 1	27
2	26
3	26
4	25
5	23
6	21
7	20
8	17
9	15
10	11
11	8.3
12	4.6
13	7.0
14	9.5
15	8.3
16	7.6
17	6.8
18	6.2
19	5.9
20	3.2
21	.10
22	.04
NOV. 7	17
8	26
9	25
10	23
11	17
NOV. 12, 1968	25
13	25
14	25
15	25
16	24
17	21
18	19
19	15
20	12
21	9.9
22	8.2
23	7.1
24	6.7
25	6.5
26	5.8
27	5.0
28	4.2
29	3.3
30	1.3
DEC. 1	3.8
2	1.5
3	1.5
4	1.3
5	.54
SEPT. 15, 1969	13
16	17
23	5.6
24	19
25	23
26	24
27	28
28	27
29	27
30	27
OCT. 1	27
2	23
3	25
4	25
5	12
15	.07
16	.21
18	14
19	24
20	25
21	25
22	24
23	24
24	24
25	23
26	23
27	24
28	23
29	24
30	25
31	25
NOV. 1	24
2	22
3	23
4	22
5	20
6	21
7	20
8	19
9	18
10	16
11	15
12	14
13	13
14	12
15	12
16	12
17	12
18	11
19	11
20	10
21	9.4
NOV. 22, 1969	9.2
23	8.6
24	7.6
25	7.4
26	7.1
27	6.6
28	6.2
29	5.8
30	5.1
DEC. 1	4.7
2	3.7
3	3.0
4	2.3
5	1.9
6	1.6
7	1.4
8	.48
9	1.8
10	.05
11	1.4
12	1.3
13	.07
14	.07
19	1.2
20	7.1
21	17
22	19
23	13
24	14
25	11
26	13
27	21
28	24
29	24
30	23
31	10
OCT. 22, 1970	9.8
23	26
24	25
25	25
26	25
27	25
28	22
29	24
30	24
31	24
NOV. 1	24
2	24
3	24
4	24
5	24
6	24
7	24
8	24
9	24
10	24
11	24
12	24
13	23
14	22
15	22
16	21
17	20
18	19
19	18
20	16
21	14
22	14
23	14
24	15
25	18
26	18
27	17
28	8.9
29	.25

11434500 ECHO LAKE CONDUIT NEAR PHILLIPS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEARS OCTOBER 1965 TO SEPTEMBER 1970--CONTINUED

MONTH	CFS-DAYS	MEAN	MAXIMUM	MINIMUM	RUNOFF IN ACRE-FEET
SEPTEMBER 1966	523	17.4	28	0	1040
OCTOBER	54.7	1.76	11	0	108
NOVEMBER	10.70	.36	1.8	0	21
THE SEASON 1966	588.4	6.47	28	0	1167
SEPTEMBER 1967	104	3.47	25	0	206
OCTOBER	563.5	18.2	26	0	1120
NOVEMBER	218.1	7.27	19	0	433
DECEMBER	1.9	.06	1.9	0	3.8
THE SEASON 1967	887.5	7.27	26	0	1760
SEPTEMBER 1968	393	13.1	29	0	780
OCTOBER	278.54	8.99	27	0	552
NOVEMBER	357.0	11.9	26	0	708
DECEMBER	8.64	.28	3.8	0	17
THE SEASON 1968	1037.18	8.50	29	0	2057
SEPTEMBER 1969	210.6	7.02	28	0	418
OCTOBER	439.28	14.2	27	0	871
NOVEMBER	400.0	13.3	24	5.1	793
DECEMBER	221.07	7.13	24	0	438
THE SEASON 1969	1270.95	10.4	28	0	2521
OCTOBER 1970	229.8	7.41	26	0	456
NOVEMBER	568.15	18.9	24	0	1130
THE SEASON	797.95	6.54	26	0	1583

NOTE.--FLOW OCCURRED ONLY ON DAYS LISTED ABOVE.

11435000 PYRAMID CREEK NEAR PHILLIPS, CALIF.

LOCATION.--Lat 38°50'55", long 120°07'40", in N½ sec.32, T.12 N., R.17 E., El Dorado County, Eldorado National Forest, on left bank 0.9 mile southeast of Lake Aloha Dam, 1.6 miles east of Pyramid Peak, 3.4 miles northwest of Phillips, and 4.6 miles west of Echo Lake Resort.

DRAINAGE AREA.--3.73 sq mi.

PERIOD OF RECORD.--September 1922 to September 1970 (discontinued). Monthly discharge only for some periods, published in WSP 1315-A. Prior to October 1952, published as Medley Lakes Outlet near Vade and October 1952 to September 1955 as Medley Lakes Outlet near Phillips.

GAGE.--Water-stage recorder. Altitude of gage is 8,050 ft (from topographic map).

AVERAGE DISCHARGE.--48 years, 17.8 cfs (12,900 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily recorded	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	July 19, 1966	70	2.04	Sept.17, 18, 24-30, 1966	.20
1967	June 20, 1967	204	a3.44	Many days	0
1968	Oct. 2, 1967	74	2.11	Sept.27-30, 1968	.44
1969	July 13, 1969	122	2.64	Oct. 11, 1968	.31
1970	June 26, 1970	182	3.24	Oct. 13, 14, 1969	.44

a Maximum gage height for year, 3.70 ft June 24, 1967, backwater from ice.

Period of record: Maximum discharge, 401 cfs Dec. 23, 1964 (gage height, 4.88 ft), from rating curve extended above 130 cfs; maximum gage height, 5.4 ft Jan. 31, 1963 (backwater from ice); no flow at times in some years.

REMARKS.--Flow regulated by Lake Aloha (capacity, 5,000 acre-ft); contents on Sept. 30 in each water year 1966-70 are as follows: Zero, 3,200, zero, zero, and 151 acre-ft, respectively. See schematic diagram of South Fork American River basin elsewhere in this report.

COOPERATION.--Gage-height record and 14 discharge measurements for the water years 1966-69 furnished by Pacific Gas & Electric Co., in connection with a Federal Power Commission project; records for the water year 1970 collected by Pacific Gas & Electric Co., under general supervision of the Geological Survey.

REVISIONS.--WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	2.2	4.7				4.1	10	8.2	14	62	1.3
2	44	2.0	4.7				4.7	11	7.9	9.1	62	1.1
3	43	2.0	4.5				5.5	12	7.9	7.9	61	1.0
4	43	1.9	4.5				6.5	11	8.2	7.6	60	.80
5	42	1.9	4.5				7.3	13	8.5	14	59	.80
6	40	1.9	4.5				7.9	13	8.2	29	57	.70
7	40	1.8	4.3				8.5	13	8.8	33	57	.70
8	39	1.8	4.3				9.1	14	11	39	56	.50
9	37	1.8	4.1				8.2	12	9.7	47	55	.50
10	37	1.7	4.1				7.0	14	9.1	47	54	.40
11	36	1.6	4.0				6.5	12	8.5	47	53	.40
12	34	1.6	4.0				5.8	11	8.5	48	53	.40
13	32	1.7	3.8				5.3	12	8.2	48	52	.30
14	30	2.8	3.8				5.5	12	8.5	46	50	.30
15	28	3.3	3.6				6.5	12	11	52	50	.30
16	26	3.3	3.6				7.3	12	18	63	48	.30
17	22	3.7	3.6				8.2	12	22	64	46	.20
18	14	6.2	3.6				7.0	12	22	65	43	.20
19	4.3	4.9	3.6				5.8	13	22	69	40	.30
20	3.0	4.3	3.8				5.3	9.7	22	69	38	.30
21	2.7	4.1	3.5				5.3	7.0	19	69	34	.30
22	2.6	3.9	3.3				5.8	12	14	68	30	.30
23	2.4	4.8	3.1				6.5	11	12	67	20	.30
24	2.4	5.2	2.9				8.5	12	10	65	10	.20
25	2.4	5.0	2.8				10	12	9.7	65	5.8	.20
26	2.3	4.6	2.7				11	12	10	64	4.5	.20
27	2.3	4.7	2.6				9.7	12	11	63	3.5	.20
28	2.3	4.7	2.5				9.1	12	11	62	2.8	.20
29	2.2	4.7	2.4				9.4	10	11	64	2.4	.20
30	2.2	4.7	2.2				9.7	8.8	11	65	2.0	.20
31	2.2	---	2.1				---	8.5	---	64	1.6	---
TOTAL	664.3	98.8	111.7	40.3	25.2	55.8	217.0	358.0	356.9	1534.6	1172.6	13.10
MEAN	21.4	3.29	3.60	1.30	.90	1.80	7.23	11.5	11.9	49.5	37.8	.44
MAX	44	6.2	4.7				11	14	22	69	62	1.3
MIN	2.2	1.6	2.1				4.1	7.0	7.9	7.6	1.6	.20
AC-FT	1320	196	222	80	50	111	430	710	708	3040	2330	26

CAL YR 1965 TOTAL 6435.3 MEAN 17.6 MAX MIN AC-FT 12760
WTR YR 1966 TOTAL 4648.3 MEAN 12.7 MAX 69 MIN .20 AC-FT 9220

NOTE.--NO GAGE-HEIGHT RECORD DEC. 11 TO APR.7.

11435000 PYRAMID CREEK NEAR PHILLIPS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.20	0	7.6						40	136	46	69
2	.20	0	9.1						32	142	44	69
3	.20	0	7.9						33	148	41	69
4	.20	0	6.5						34	146	36	69
5	.20	0	22						34	141	36	68
6	.20	0	15						35	131	35	67
7	.20	0	11						45	116	34	48
8	.20	0	8.2						68	112	23	7.6
9	.20	0	6.5						77	108	8.5	5.5
10	.20	0	6.0						73	97	8.2	5.5
11	.10	0	5.7						73	93	7.6	5.3
12	0	0	5.4						69	91	7.3	5.3
13	0	0	5.2						65	91	9.7	5.3
14	0	0	5.0						69	96	7.6	5.3
15	0	0	5.0						79	91	10	5.3
16	0	.80	5.0						98	96	9.7	5.3
17	0	.70	5.0						118	85	14	5.3
18	0	.70	5.0						121	83	12	6.8
19	0	1.0	5.0						106	79	11	5.5
20	0	2.2	5.0						158	75	12	4.5
21	0	3.2	5.0						166	61	13	2.6
22	0	3.7	4.9						147	39	18	1.8
23	0	3.3	4.8						126	39	39	1.7
24	0	3.3	4.7						114	40	39	1.6
25	0	3.5	4.6						116	40	38	1.6
26	0	3.5	4.6						131	40	38	13
27	0	3.5	4.5						141	40	37	64
28	0	14	4.5						136	35	38	65
29	0	20	4.4						128	45	44	65
30	0	8.5	4.4						133	48	57	65
31	0	---	4.3						---	48	63	---
TOTAL	2.10	71.90	201.8	117.8	156.8	217.0	204.0	620	2765	2632	836.6	812.8
MEAN	.068	2.40	6.51	3.80	5.60	7.00	6.80	20.0	92.2	84.9	27.0	27.1
MAX	.20	20	22						166	148	63	69
MIN	0	0	4.3						32	35	7.3	1.6
AC-FT	4.2	143	400	234	311	430	405	1230	5480	5220	1660	1610

CAL YR 1966 TOTAL 4049.3 MEAN 11.1 MAX MIN AC-FT 8030
WTR YR 1967 TOTAL 7837.8 MEAN 21.5 MAX 166 MIN 0 AC-FT 15550

NOTE.--NO GAGE-HEIGHT RECORD DEC. 9 TO JUNE 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	6.2					10	15	17	2.2	58	6.8
2	65	6.0					10	14	19	2.3	57	5.5
3	67	5.8					9.4	14	19	2.3	57	4.9
4	61	5.5					9.1	15	18	9.7	55	3.7
5	61	5.5					9.1	13	16	12	54	3.2
6	60	5.3					9.1	12	16	9.1	53	2.7
7	58	5.1					9.1	13	16	7.6	53	2.3
8	57	4.9					9.1	14	16	11	52	2.2
9	56	4.7					9.4	15	16	30	56	2.0
10	56	4.5					11	15	17	35	61	1.7
11	56	4.1					12	13	17	35	61	1.7
12	56	3.9					11	13	17	35	58	1.4
13	55	3.3					11	12	16	34	57	1.3
14	54	4.3					11	11	12	34	54	1.1
15	53	3.3					11	11	6.8	34	52	1.1
16	53	2.7					11	12	6.0	34	48	1.0
17	53	2.3					9.7	14	5.8	34	45	.90
18	52	2.4					9.4	17	4.3	34	39	.90
19	51	3.3					9.1	18	3.9	36	43	.84
20	50	4.3					9.1	22	3.5	41	42	.78
21	49	4.3					9.1	18	3.3	41	41	.78
22	48	3.9					9.1	13	3.2	45	39	.58
23	47	3.7					9.1	12	3.0	57	36	.48
24	46	3.7					9.7	12	2.7	57	30	.48
25	45	3.5					10	16	2.6	57	18	.48
26	43	3.2					12	17	2.4	57	11	.48
27	41	2.7					12	19	2.4	56	9.7	.44
28	38	2.7					13	20	2.2	56	7.9	.44
29	36	3.3					15	19	2.2	56	6.8	.44
30	27	4.5					15	17	2.2	57	5.8	.44
31	7.9	---					---	17	---	59	5.5	---
TOTAL	1565.9	122.9	108.5	77.5	116.0	155.0	313.6	463	288.5	1070.2	1265.7	51.06
MEAN	50.5	4.10	3.50	2.50	4.00	5.00	10.5	14.9	9.62	34.5	40.8	1.70
MAX	67	6.2					15	22	19	59	61	6.8
MIN	7.9	2.3					9.1	11	2.2	2.2	5.5	.44
AC-FT	3110	244	215	154	230	307	622	918	572	2120	2510	101

CAL YR 1967 TOTAL 10159.3 MEAN 27.8 MAX 166 MIN AC-FT 20150
WTR YR 1968 TOTAL 5597.86 MEAN 15.3 MAX 67 MIN AC-FT 11100

NOTE.--NO GAGE-HEIGHT RECORD DEC. 5 TO MAR. 31.

11435000 PYRAMID CREEK NEAR PHILLIPS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.40	5.2	11						90	10	25	88
2	.40	22	11						90	11	23	87
3	.40	26	11						90	15	22	86
4	.40	11	10						90	14	21	85
5	.40	10	10						90	14	18	85
6	.35	10	10						90	13	16	83
7	.35	9.6	9.4						90	10	14	81
8	.35	10	9.1						100	11	26	80
9	.35	14	9.1						100	12	37	77
10	.35	11	8.8						100	35	36	75
11	.31	11	8.8						100	69	36	73
12	.50	15	8.8						100	77	43	69
13	.95	11	8.8						100	98	62	65
14	1.6	10	8.8						100	103	77	59
15	2.4	11	8.8						100	93	77	53
16	3.0	10	8.8						77	79	77	47
17	3.8	10	8.8						58	67	76	36
18	4.3	16	8.8						30	50	74	20
19	4.3	13	8.8						30	41	73	12
20	4.3	11	8.8						30	46	73	9.1
21	4.3	10	8.8						30	45	72	7.9
22	4.1	11	8.8						30	50	71	5.8
23	4.0	12	8.8						30	51	71	5.1
24	3.8	11	8.8						34	50	70	4.7
25	3.6	10	8.8						33	48	78	4.3
26	3.5	10	9.0						32	40	88	3.7
27	3.3	10	9.0						27	38	88	2.7
28	3.0	10	9.0						14	36	90	2.4
29	2.9	9.6	9.0						13	33	91	1.8
30	4.8	10	9.0						11	30	89	1.6
31	5.4	---	9.0						---	28	89	---
TOTAL	71.91	350.4	285.4	263	183	223	1011	2350	1909	1317	1803	1310.1
MEAN	2.32	11.7	9.21	8.48	6.54	7.19	33.7	75.8	63.6	42.5	58.2	43.7
MAX	5.4	26	11						100	103	91	88
MIN	.31	5.2	8.8						11	10	14	1.6
AC-FT	143	695	566	522	363	442	2010	4660	3790	2610	3580	2600

CAL YR 1968 TOTAL 4508.27 MEAN 12.3 MAX 61 MIN AC-FT 8940
WTR YR 1969 TOTAL 11076.81 MEAN 30.3 MAX 103 MIN AC-FT 21970

NOTE.--NO GAGE-HEIGHT RECORD DEC. 22 TO JUNE 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	5.1	5.1					25	41	51	9.5	81
2	1.6	5.1	5.1					30	42	36	9.5	80
3	1.4	5.1	5.1					40	45	34	9.0	79
4	1.2	5.1	5.1					50	45	50	8.5	80
5	1.1	6.3	5.1					58	45	62	8.3	78
6	1.0	7.9	5.1					62	47	61	8.2	77
7	.97	7.3	5.1					63	48	51	8.2	75
8	.84	7.0	5.8					63	47	48	8.2	76
9	.78	6.8	5.8					63	48	46	8.5	64
10	.73	6.5	6.3					65	40	44	8.5	43
11	.63	6.5	7.0					69	42	43	8.2	43
12	.53	6.8	5.8					71	41	43	8.2	42
13	.44	6.8	5.5					46	40	42	8.8	42
14	.44	6.8	5.5					24	40	42	8.5	42
15	10	6.5	5.5					24	39	45	8.5	41
16	22	7.6	5.5					27	41	42	8.2	40
17	9.7	6.8	5.5					29	42	36	8.2	39
18	7.0	6.0	7.0					29	43	30	8.2	39
19	6.3	5.8	9.0					26	52	31	7.9	39
20	6.5	5.8	14					24	49	30	8.2	39
21	6.8	5.8	20					25	68	28	8.2	39
22	7.6	5.8	15					26	83	25	8.2	38
23	7.0	5.5	10					27	92	22	8.2	37
24	6.3	5.5	8.0					26	93	20	16	37
25	6.0	5.5	7.0					28	89	18	41	36
26	5.5	5.5	7.0					29	117	16	61	36
27	5.5	5.3	6.0					26	143	15	63	28
28	5.3	5.3	5.0					32	91	12	73	8.0
29	5.3	5.3	4.0					40	67	11	83	5.5
30	5.3	5.3	3.5					42	54	10	82	5.3
31	5.1	---	3.0					41	---	10	81	---
TOTAL	140.56	182.4	212.4	176.3	144.6	249.5	403	1230	1774	1054	693.9	1408.8
MEAN	4.53	6.08	6.85	5.69	5.16	8.05	13.4	39.7	59.1	34.0	22.4	47.0
MAX	22	7.9	20					71	143	62	83	81
MIN	.44	5.1	3.0					24	39	10	7.9	5.3
AC-FT	279	362	421	350	287	495	799	2440	3520	2090	1380	2790

CAL YR 1969 TOTAL 10904.46 MEAN 29.9 MAX 103 MIN 0 AC-FT 21630
WTR YR 1970 TOTAL 7669.46 MEAN 21.0 MAX 143 MIN .44 AC-FT 15210

NOTE.--NO GAGE-HEIGHT RECORD DEC. 18 TO MAY 6.

11436000 SILVER LAKE OUTLET NEAR KIRKWOOD, CALIF.

LOCATION.--Lat 38°40'17", long 120°07'18", in SW¼ sec.32, T.10 N., R.17 E., Amador County, Eldorado National Forest, on right bank 1,000 ft downstream from Silver Lake Dam and 3.5 miles southwest of Kirkwood.

DRAINAGE AREA.--15.2 sq mi.

PERIOD OF RECORD.--September 1922 to September 1970. Records for water year 1923 incomplete, yearly estimate published in WSP 1315-A.

GAGE.--Water-stage recorder. Datum of gage is 7,199.5 ft above mean sea level, unadjusted.

AVERAGE DISCHARGE.--48 years, 34.2 cfs (24,780 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	May 11, 1966	229	3.30	Sept.26-30, 1966	.40
1967	June 27, 1967	349	4.12	Oct. 2, 1966	.30
1968	Apr. 28, 1968	152	2.61	Oct. 19-28, 1967	.40
1969	Jan. 22, 1969	478	4.63	Oct. 22-30, 1968	.02
1970	Jan. 22, 1970	376	4.08	Aug. 5-8, 1970	1.6

Period of record: Maximum discharge, 676 cfs Nov. 21, 1950 (gage height, 6.03 ft), from rating curve extended above 290 cfs; no flow for many days in February, March 1948, Jan. 13, 14, 1954, Nov. 3, 1959, to Feb. 5, 1960.

REMARKS.--Flow regulated by Silver Lake (capacity, 3,840 acre-ft at spillway level and 8,590 acre-ft with 11 ft of flashboards). Some water, in addition to that released through dam and over spillway, escapes from Silver Lake through porous rock formation. See schematic diagram of South Fork American River basin elsewhere in this report. Available contents in Silver Lake on Sept. 30 in each water year 1966-70 are as follows: 3,800, 2,600, 1,820, 3,500, and 4,970 acre-ft, respectively.

COOPERATION.--Gage-height record and 26 discharge measurements for the water years 1966-68 furnished by Pacific Gas & Electric Co., in connection with a Federal Power Commission project; records for the water years 1969-70 collected by Pacific Gas & Electric Co., under general supervision of the Geological Survey.

REVISIONS.--WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	13	6.1	6.1	9.1	7.7	15	133	23	3.2	3.8	3.0
2	68	38	6.1	6.1	9.1	7.7	16	141	13	3.6	3.8	2.8
3	67	37	6.1	6.5	8.6	7.7	17	78	6.4	3.8	3.2	2.8
4	66	36	6.5	6.5	8.6	8.2	18	21	4.8	3.6	3.2	2.8
5	64	35	6.5	6.5	8.6	8.2	19	30	4.8	3.4	3.2	2.7
6	63	34	6.5	6.5	8.6	8.2	27	23	4.8	3.4	3.6	43
7	61	33	6.5	6.1	8.6	8.2	75	55	4.8	3.4	4.1	92
8	60	32	6.5	6.1	8.6	8.2	116	129	5.1	3.2	3.8	94
9	59	31	6.5	6.5	8.6	8.2	64	175	5.7	2.8	3.8	98
10	58	29	6.5	6.5	8.6	8.2	25	209	5.4	2.7	3.6	91
11	57	29	6.1	6.5	8.6	8.2	26	215	4.1	3.2	3.4	65
12	56	28	6.1	8.6	8.6	8.2	27	162	3.6	3.4	3.2	63
13	56	27	6.1	10	8.6	8.2	27	126	3.6	3.2	3.0	48
14	54	27	6.1	10	8.6	8.6	27	90	3.6	2.7	3.0	28
15	54	27	6.1	10	8.6	8.6	28	57	3.4	3.0	3.0	19
16	53	26	6.1	9.6	8.6	9.1	28	58	3.8	3.8	3.4	12
17	52	27	6.1	9.6	8.6	9.1	30	69	4.4	4.1	3.6	7.9
18	51	29	6.1	9.6	8.2	9.1	31	78	3.8	3.8	3.4	6.0
19	51	29	6.1	9.6	8.2	9.1	31	88	3.4	3.4	3.2	4.8
20	49	28	6.1	9.6	8.2	9.1	31	106	3.4	3.4	3.2	2.1
21	49	28	6.1	9.6	8.2	9.6	31	115	3.6	3.2	3.2	.80
22	49	27	6.1	9.6	8.2	9.6	34	112	3.2	3.2	3.0	.60
23	48	27	6.1	9.6	8.2	9.6	37	104	3.4	3.2	3.4	.50
24	47	28	6.1	9.6	8.2	9.6	38	86	3.4	3.0	3.8	.50
25	47	27	6.1	9.6	8.2	9.6	58	71	3.4	3.2	3.6	.50
26	45	27	6.1	9.6	8.2	10	90	59	3.4	3.4	3.0	.40
27	45	26	6.1	9.1	8.2	11	111	47	3.2	3.4	3.2	.40
28	26	26	6.5	9.1	7.7	12	118	38	2.7	3.0	3.4	.40
29	3.0	25	6.5	9.1	---	13	123	30	2.5	3.0	3.4	.40
30	3.0	14	6.5	9.1	---	13	127	26	2.8	3.0	3.2	.40
31	3.0	---	6.5	9.1	---	14	---	25	---	2.8	3.2	---
TOTAL	1532.0	850	193.5	259.6	236.9	288.8	1445	2756	146.5	101.5	104.9	692.80
MEAN	49.4	28.3	6.24	8.37	8.46	9.32	48.2	88.9	4.88	3.27	3.38	23.1
MAX	68	38	6.5	10	9.1	14	127	215	23	4.1	4.1	98
MIN	3.0	13	6.1	6.1	7.7	7.7	15	21	2.5	2.7	3.0	.40
AC-FT	3040	1690	384	515	470	573	2870	5470	291	201	208	1370

CAL YR 1965 TOTAL 18156.10 MEAN 49.7 MAX 284 MIN 1.8 AC-FT 36010
WTR YR 1966 TOTAL 8607.50 MEAN 23.6 MAX 215 MIN .40 AC-FT 17070

11436000 SILVER LAKE OUTLET NEAR KIRKWOOD, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.40	47	31	26	23	13	39	29	156	269	3.4	2.8
2	.30	39	31	25	22	13	38	28	116	273	3.4	2.7
3	1.4	32	31	25	22	14	38	28	100	275	2.8	2.5
4	.40	17	31	25	21	15	38	28	132	269	3.2	1.9
5	1.6	2.3	32	23	19	14	38	29	165	255	3.0	23
6	3.2	2.3	33	20	17	14	38	29	158	231	2.8	42
7	3.6	3.9	33	17	15	14	38	29	178	191	3.4	58
8	3.8	24	33	15	15	14	38	31	213	167	3.2	87
9	3.8	17	33	13	14	16	38	34	245	164	2.8	92
10	4.1	13	33	12	14	17	37	36	265	120	2.7	91
11	4.8	9.7	33	12	15	21	37	36	262	48	2.7	109
12	4.8	7.4	33	11	15	23	37	37	262	16	2.3	122
13	3.6	6.7	33	10	15	24	36	37	261	18	2.7	123
14	3.2	2.9	32	10	16	23	36	37	263	20	2.8	127
15	3.2	11	32	10	17	23	36	38	280	23	2.8	123
16	3.2	25	32	10	16	26	35	40	303	64	2.7	115
17	3.0	24	31	10	15	30	34	44	326	82	2.8	126
18	3.0	18	31	10	15	34	34	63	332	72	2.8	123
19	3.0	14	31	10	15	35	34	170	277	63	2.7	98
20	3.0	22	31	11	14	36	34	240	149	50	2.5	70
21	47	24	30	19	13	36	32	277	78	30	2.7	64
22	65	22	30	23	13	38	32	314	144	12	3.6	61
23	63	17	30	22	13	38	32	314	203	3.0	3.6	58
24	62	13	29	22	13	38	32	311	226	3.4	3.8	57
25	60	10	29	22	13	38	31	305	238	3.6	3.8	56
26	59	8.8	28	21	13	38	31	297	311	3.8	3.6	55
27	57	7.9	28	20	12	38	31	291	335	3.8	3.4	55
28	56	18	28	20	12	39	30	277	286	3.8	3.4	54
29	55	30	27	22	---	39	30	259	247	3.8	3.4	53
30	52	31	27	23	---	39	29	245	251	3.8	3.2	53
31	51	---	27	23	---	39	---	201	---	3.6	3.2	---
TOTAL	684.40	519.9	953	542	437	839	1043	4134	6762	2744.6	95.2	2104.9
MEAN	22.1	17.3	30.7	17.5	15.6	27.1	34.8	133	225	88.5	3.07	70.2
MAX	65	47	33	26	23	39	39	314	335	275	3.8	127
MIN	.30	2.3	27	10	12	13	29	28	78	3.0	2.3	1.9
AC-FT	1360	1030	1890	1080	867	1660	2070	8200	13410	5440	189	4180

CAL YR 1966 TOTAL 8189.30 MEAN 22.4 MAX 215 MIN .30 AC-FT 16240
WTR YR 1967 TOTAL 20859.00 MEAN 57.1 MAX 335 MIN .30 AC-FT 41370

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	.50	3.2	3.2	6.6	5.5	76	77	88	3.2	4.3	5.4
2	49	.50	3.0	3.2	3.6	5.5	70	20	89	3.2	4.0	5.4
3	49	15	2.7	3.0	3.6	5.8	53	7.7	88	2.8	4.0	37
4	48	38	2.7	2.8	3.6	6.2	45	9.1	82	2.4	4.0	75
5	47	36	3.0	2.8	3.6	13	45	19	54	2.4	4.0	86
6	46	27	2.8	2.8	3.6	19	41	15	36	2.2	4.3	84
7	45	28	3.6	2.8	3.6	22	40	6.5	26	2.2	4.3	82
8	43	26	3.8	2.8	3.6	26	43	6.8	22	2.8	4.0	80
9	42	20	3.0	3.0	3.6	26	55	7.7	21	3.2	4.0	78
10	40	16	2.8	3.2	3.6	23	76	7.7	10	3.2	3.6	76
11	38	12	2.8	3.0	3.6	21	101	9.1	2.8	3.4	3.4	75
12	33	9.1	2.7	3.0	3.6	20	109	19	2.8	3.2	3.4	74
13	25	7.2	3.2	3.0	3.6	22	107	27	3.0	3.2	3.4	71
14	18	5.0	7.2	3.0	3.6	22	107	33	3.2	3.2	3.6	70
15	12	3.2	8.2	3.2	3.6	20	117	19	3.6	3.2	3.6	69
16	8.6	3.2	8.2	3.2	3.6	21	108	6.8	3.6	3.2	3.6	68
17	4.5	3.2	8.2	3.2	3.6	23	88	13	3.2	4.0	5.4	67
18	.60	3.2	8.2	3.2	3.6	20	70	25	2.4	4.7	6.8	65
19	.40	3.2	8.2	3.2	4.1	17	60	39	2.6	4.7	7.2	64
20	.40	3.2	8.6	3.2	4.8	15	58	66	2.6	4.0	6.8	62
21	.40	3.2	8.6	3.2	4.5	14	56	84	2.8	4.0	6.8	61
22	.40	3.2	8.6	3.2	4.5	14	52	86	3.0	5.0	6.8	60
23	.40	3.2	8.6	3.2	4.8	14	53	78	3.2	5.0	6.8	58
24	.40	3.2	6.9	3.2	5.2	14	56	68	3.0	5.0	6.8	57
25	.40	3.2	3.2	3.4	5.2	16	65	64	2.8	5.0	6.5	54
26	.40	3.2	3.2	3.4	5.2	17	88	69	2.6	5.0	6.5	53
27	.40	3.2	3.2	3.4	5.2	17	114	80	3.0	5.0	6.5	51
28	.40	3.2	3.2	3.4	5.5	19	129	93	2.8	5.0	6.1	49
29	.50	3.2	3.2	3.8	5.5	28	116	101	2.8	5.4	5.8	48
30	.50	3.4	3.2	12	---	49	116	98	2.8	4.7	5.8	45
31	.50	---	3.2	19	---	64	---	93	---	4.7	5.4	---
TOTAL	605.20	291.70	151.2	122.0	122.3	619.0	2314	1347.4	574.6	118.2	157.5	1829.8
MEAN	19.5	9.72	4.88	3.94	4.22	20.0	77.1	43.5	19.2	3.81	5.08	61.0
MAX	51	38	8.6	19	6.6	64	129	101	89	5.4	7.2	86
MIN	.40	.50	2.7	2.8	3.6	5.5	40	6.5	2.4	2.2	3.4	5.4
AC-FT	1200	579	300	242	243	1230	4590	2670	1140	234	312	3630

CAL YR 1967 TOTAL 19749.80 MEAN 54.1 MAX 335 MIN .40 AC-FT 39170
WTR YR 1968 TOTAL 8252.90 MEAN 22.5 MAX 129 MIN .40 AC-FT 16370

11436000 SILVER LAKE OUTLET NEAR KIRKWOOD, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	.04	.30	.30	20	15	77	153	374	78	3.5	2.6
2	42	.49	.30	.30	18	14	80	147	327	103	3.0	4.0
3	39	.49	.30	.30	16	14	72	120	327	116	3.0	10
4	38	.04	.30	.30	15	12	55	107	340	133	3.0	14
5	36	.04	.30	.30	18	10	58	114	342	140	3.0	17
6	35	.04	.30	.30	21	10	54	172	342	127	2.8	22
7	33	.04	.30	.30	18	9.8	41	247	336	96	2.8	22
8	31	.04	.30	.30	16	8.8	33	285	336	52	3.0	26
9	28	.05	.30	.30	14	9.3	31	334	295	45	3.0	37
10	26	.08	.30	.30	13	9.3	30	377	80	50	3.0	46
11	24	.10	.30	.30	13	8.4	35	340	14	55	3.0	50
12	23	.42	.30	.30	14	8.4	50	352	7.1	48	3.2	59
13	22	.36	.30	.30	12	7.9	58	350	4.0	51	3.2	63
14	21	.36	.30	.36	15	6.7	62	339	4.9	52	3.2	62
15	18	.30	.30	.36	22	6.3	54	327	6.7	50	3.0	52
16	16	.30	.30	.36	20	6.7	50	322	18	50	3.0	61
17	14	.30	.30	.36	16	6.0	59	351	55	40	3.0	76
18	12	.42	.30	.49	15	6.0	70	334	90	35	3.0	74
19	11	.36	.30	2.0	14	6.0	80	335	127	31	3.0	73
20	6.7	.36	.30	1.2	14	6.0	106	326	177	24	3.0	71
21	3.5	.30	.30	27	13	6.0	143	351	166	13	2.6	70
22	.02	.30	.30	346	12	6.0	177	364	173	6.0	2.6	68
23	.02	.30	.30	102	21	6.0	152	378	180	4.6	3.0	67
24	.02	.30	.30	58	22	6.0	108	374	184	4.6	3.0	66
25	.02	.30	.30	54	20	6.0	82	374	177	4.6	2.8	63
26	.02	.30	.30	53	18	7.9	72	378	151	4.3	2.4	60
27	.02	.30	.30	43	15	14	72	378	77	4.0	2.6	59
28	.02	.30	.30	39	16	18	91	360	18	3.8	2.6	58
29	.02	.30	.30	34	---	23	124	363	33	3.2	2.8	56
30	.02	.30	.30	26	---	36	143	364	52	3.0	3.0	54
31	.04	---	.30	22	---	60	---	374	---	3.8	2.6	---
TOTAL	519.42	7.63	9.30	813.03	461	369.5	2319	9490	4813.7	1430.9	90.7	1462.6
MEAN	16.8	.25	.30	26.2	16.5	11.9	77.3	306	160	46.2	2.93	48.8
MAX	42	.49	.30	346	22	60	177	378	374	140	3.5	76
MIN	.02	.04	.30	.30	12	6.0	30	107	4.0	3.0	2.4	2.6
AC-FT	1030	15	18	1610	914	733	4600	18820	9550	2840	180	2900

CAL YR 1968 TOTAL 7741.15 MEAN 21.2 MAX 129 MIN .02 AC-FT 15350
WTR YR 1969 TOTAL 21786.78 MEAN 59.7 MAX 378 MIN .02 AC-FT 43210

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	39	7.4	44	67	46	39	5.0	193	7.4	2.8	2.8
2	54	37	8.9	43	66	46	39	5.3	193	4.7	2.6	2.8
3	53	37	7.4	43	65	45	40	5.6	191	5.0	2.8	2.8
4	52	35	6.3	42	64	45	40	5.9	194	5.0	2.8	2.8
5	28	32	5.9	40	63	43	42	7.4	148	5.0	1.6	2.6
6	7.0	32	5.3	39	63	43	43	10	135	5.0	1.6	2.4
7	5.0	32	5.0	38	62	41	45	11	122	4.4	1.6	2.2
8	3.8	30	5.0	37	61	40	47	12	119	3.8	1.6	2.6
9	3.6	29	4.7	37	61	39	48	13	152	3.6	2.0	3.1
10	3.6	28	5.0	36	60	39	50	13	141	3.6	3.1	3.1
11	3.6	27	5.0	35	60	38	51	13	95	3.3	3.6	3.1
12	3.6	26	4.7	34	61	37	52	12	41	3.1	2.8	3.1
13	3.3	25	4.7	34	59	37	53	11	16	2.8	2.8	2.8
14	3.3	24	4.4	34	58	36	54	19	16	2.8	3.1	7.7
15	3.3	22	3.8	34	57	36	54	73	9.8	3.1	3.1	11
16	3.3	21	3.8	39	57	36	53	136	7.4	3.1	3.8	11
17	3.3	20	3.6	45	56	37	53	183	6.6	3.3	3.1	14
18	28	17	3.6	47	55	33	52	242	17	3.3	2.6	16
19	55	14	5.3	48	54	35	52	258	67	3.3	2.8	16
20	53	12	23	49	53	34	52	249	130	3.1	2.8	16
21	52	10	42	57	52	34	51	184	95	3.1	2.8	16
22	51	9.4	47	242	52	34	51	114	65	3.1	2.6	16
23	50	7.4	48	283	50	34	49	115	67	2.8	2.4	18
24	49	7.4	48	207	49	35	24	144	68	2.8	3.1	20
25	48	6.6	49	138	48	37	4.7	149	48	2.8	3.6	20
26	47	6.3	48	104	47	38	5.0	169	80	2.8	3.3	19
27	45	5.6	48	93	47	39	5.0	195	241	3.1	3.3	12
28	44	5.0	48	79	47	39	5.0	195	105	3.3	3.3	3.8
29	43	4.4	47	71	---	39	5.0	193	32	3.3	3.1	3.6
30	42	3.8	46	68	---	40	5.0	190	16	3.3	3.1	3.6
31	40	---	45	67	---	40	---	190	---	3.3	2.8	---
TOTAL	935.7	604.9	638.8	2207	1594	1195	1163.7	3122.2	2810.8	112.4	86.4	259.9
MEAN	30.2	20.2	20.6	71.2	56.9	38.5	38.8	101	93.7	3.63	2.79	8.66
MAX	55	39	49	283	67	46	54	258	241	7.4	3.8	20
MIN	3.3	3.8	3.6	34	47	33	4.7	5.0	6.6	2.8	1.6	2.2
AC-FT	1860	1200	1270	4380	3160	2370	2310	6190	5580	223	171	516

CAL YR 1969 TOTAL 23430.00 MEAN 64.2 MAX 378 MIN .30 AC-FT 46470
WTR YR 1970 TOTAL 14730.80 MEAN 40.4 MAX 283 MIN 1.6 AC-FT 29220

11437000 CAPLES LAKE OUTLET NEAR KIRKWOOD, CALIF.
(Formerly published as Twin Lakes Outlet near Kirkwood)

LOCATION.--Lat 38°42'29", long 120°03'00", in SW¼SW¼ sec.18, T.10 N., R.18 E., Alpine County, Eldorado National Forest, on right bank 500 ft downstream from main dam and outlet gate of Caples Lake and 1.3 miles east of Kirkwood.

DRAINAGE AREA.--13.5 sq mi.

PERIOD OF RECORD:--September 1922 to September 1970. Records for water year 1945 incomplete, yearly estimate published in WSP 1315-A. Prior to October 1965, published as Twin Lakes Outlet near Kirkwood.

GAGE.--Water-stage recorder and concrete control for outlet, and water-stage recorder for spillway. Altitude of gage is 7,700 ft (from topographic map).

AVERAGE DISCHARGE.--48 years, 36.9 cfs (26,730 acre-ft per year), including flow over Caples Lake spillway.

EXTREMES.--Maximum and minimum combined daily discharge in cubic feet per second (for outlet and spillway), for the water years 1966-70 are contained in the following table:

	Maximum daily		Minimum daily	
Wtr yr	Date	Discharge	Date	Discharge
1966	Sept. 3, 1966	124	Mar. 29, May 3, 4, 1966	1.8
1967	July 2, 3, 1967	419	Oct. 13-18, 1966	2.0
1968	Nov. 18, 1967	138	Apr. 4, 5, 1968	.90
1969	June 3, 1969	669	Nov. 1, 1968	1.8
1970	June 27, 1970	415	Dec. 31, 1969, Jan. 1, 1970	2.4

Period of record: Maximum combined daily discharge for outlet and spillway, 669 cfs June 3, 1969; minimum daily, 0.1 cfs Mar. 25-31, 1944, Nov. 27, 28, 1956.

REMARKS.--Flow regulated by Caples Lake 500 ft upstream (capacity, 19,750 acre-ft spillway level, 21,580 acre-ft with 3 ft of flashboards). Flow over Caples Lake spillway occurred every year except 1968 and is included in tables herein. No diversion above station. See schematic diagram of South Fork American River basin elsewhere in this report. Contents in Caples Lake on Sept. 30 in each year for the water years 1966-70 are as follows: 10,400, 18,600, 13,800, 18,600, and 9,180 acre-ft, respectively.

COOPERATION.--Gage-height record and 17 discharge measurements for the water years 1966-68 furnished by Pacific Gas & Electric Co., in connection with a Federal Power Commission project; records for the water years 1969-70 collected by Pacific Gas & Electric Co., under general supervision of the Geological Survey.

REVISIONS.--WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	33	54	65	54	40	2.7	3.4	7.9	20	48	119
2	2.6	98	54	65	54	34	2.7	2.2	5.8	25	49	123
3	2.6	98	54	65	54	30	3.1	1.8	2.4	30	50	124
4	2.6	98	54	65	54	30	3.1	1.8	2.2	31	50	123
5	2.6	100	54	65	54	30	3.1	2.7	3.1	29	52	123
6	2.4	102	54	53	56	30	3.4	3.8	3.8	29	54	65
7	2.2	102	54	40	56	23	3.4	3.8	4.4	28	59	26
8	7.3	102	54	40	54	9.4	3.8	3.8	5.1	26	65	15
9	14	106	54	40	54	2.2	3.4	3.8	3.8	21	64	2.0
10	14	110	54	48	54	2.2	3.1	3.8	3.8	21	62	2.4
11	20	110	54	56	54	2.4	3.4	3.4	2.7	20	62	2.4
12	24	110	54	56	54	2.7	3.4	3.4	2.5	19	62	9.1
13	24	110	60	56	54	2.7	3.1	3.4	3.2	19	62	46
14	24	111	73	56	46	2.7	3.1	3.1	2.3	19	68	78
15	25	67	94	56	40	2.7	3.8	3.1	2.9	19	72	82
16	24	34	96	56	40	2.7	3.8	3.1	2.1	19	72	90
17	24	34	96	56	40	2.7	3.1	3.4	2.1	19	72	91
18	36	34	96	56	40	3.1	2.7	3.4	3.8	19	72	91
19	44	34	96	56	40	3.1	2.7	3.4	3.4	19	75	96
20	43	34	80	56	40	3.1	2.7	3.4	2.5	18	78	98
21	65	34	65	56	34	3.1	3.1	3.4	3.0	20	78	105
22	81	40	65	56	31	3.1	3.1	3.4	3.2	26	82	96
23	81	56	65	56	31	3.1	3.8	3.4	5.2	31	92	84
24	82	56	65	54	24	3.1	4.1	3.1	35	31	100	84
25	85	56	65	54	24	3.4	4.1	3.1	28	33	108	82
26	85	54	65	54	40	3.4	4.1	3.4	20	34	111	87
27	85	54	65	54	40	3.8	4.1	3.4	20	33	111	88
28	56	54	65	54	40	2.7	4.1	3.4	20	35	116	90
29	2.4	54	65	54	---	1.8	3.1	3.8	20	45	119	92
30	2.4	54	65	54	---	2.4	3.1	4.4	20	48	119	92
31	2.4	---	65	54	---	2.7	---	6.2	---	47	119	---
TOTAL	968.3	2139	2054	1706	1256	291.3	100.3	105.0	244.2	833	2403	2305.9
MEAN	31.2	71.3	66.3	55.0	44.9	9.40	3.34	3.39	8.14	26.9	77.5	76.9
MAX	85	111	96	65	56	40	4.1	6.2	35	48	119	124
MIN	2.2	33	54	40	24	1.8	2.7	1.8	2.1	18	48	2.0
AC-FT	1920	4240	4070	3380	2490	578	199	208	484	1650	4770	4570

CAL YR 1965 TOTAL 19860.4 MEAN 54.4 MAX 295 MIN 2.0 AC-FT 39390
WTR YR 1966 TOTAL 14406.0 MEAN 39.5 MAX 124 MIN 1.8 AC-FT 28570

11437000 CAPLES LAKE OUTLET NEAR KIRKWOOD, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	91	30	3.4	3.4	5.1	7.9	5.5	179	409	79	41
2	56	97	30	3.4	3.4	5.1	5.1	5.8	179	419	76	50
3	3.1	103	30	3.4	3.8	5.1	5.1	5.8	179	419	56	48
4	2.4	60	30	3.4	3.8	5.1	4.8	5.5	179	399	32	48
5	2.4	4.1	30	3.4	3.8	4.8	4.8	5.8	179	388	27	22
6	2.2	4.1	29	3.4	3.8	4.4	4.8	5.5	179	378	27	4.4
7	2.2	8.5	29	3.4	3.8	4.4	5.1	5.8	179	337	17	4.4
8	2.2	54	29	3.4	3.8	4.1	5.1	5.8	179	315	14	4.4
9	2.2	56	29	3.4	4.1	4.1	5.1	5.8	179	308	33	4.4
10	2.2	48	29	3.1	4.1	4.1	5.1	5.8	179	209	44	4.4
11	2.2	54	29	3.1	4.4	4.1	5.5	5.5	179	62	28	4.4
12	2.2	54	28	3.1	4.4	4.1	5.5	5.5	179	23	42	4.4
13	2.0	54	28	3.1	4.8	4.1	5.5	5.8	181	26	61	4.1
14	2.0	58	28	3.1	4.8	4.1	5.5	5.8	181	30	70	4.1
15	2.0	44	17	3.1	4.8	4.8	5.5	6.2	181	40	66	3.8
16	2.0	31	3.8	3.1	5.1	6.2	5.5	6.6	183	119	58	3.4
17	2.0	31	3.8	3.1	5.1	5.5	5.8	6.6	185	192	65	3.4
18	2.0	31	3.8	3.1	5.1	5.5	5.8	6.6	187	138	74	5.1
19	2.4	31	3.8	3.1	4.8	5.5	6.2	7.1	129	97	79	11
20	2.7	31	3.8	3.1	4.8	5.5	6.6	7.1	154	99	85	50
21	7.1	30	3.4	3.1	4.8	5.5	6.2	7.5	249	99	76	75
22	41	30	3.4	3.4	4.8	5.5	5.1	7.5	251	99	57	80
23	59	30	3.4	3.4	4.8	5.5	5.1	7.9	251	99	53	79
24	65	30	3.4	3.8	5.1	5.5	5.5	8.3	253	107	56	79
25	70	30	3.4	3.8	5.1	5.5	5.5	8.7	255	108	45	79
26	73	30	3.4	3.8	5.1	5.5	5.5	109	278	84	44	79
27	77	30	3.4	3.8	5.1	5.1	5.5	177	285	70	44	42
28	84	30	3.4	3.8	5.1	5.5	5.5	177	305	64	56	15
29	90	30	3.4	3.8	---	5.5	5.5	177	320	56	48	8.8
30	88	30	3.4	3.4	---	6.2	5.5	177	347	56	44	4.4
31	88	---	3.4	3.4	---	7.5	---	179	---	67	48	---
TOTAL	930.5	1244.7	481.4	104.2	125.8	158.5	165.2	1155.8	6323	5316	1604	865.9
MEAN	30.0	41.5	15.5	3.36	4.49	5.11	5.51	37.3	211	171	51.7	28.9
MAX	92	103	30	3.8	5.1	7.5	7.9	179	347	419	85	80
MIN	2.0	4.1	3.4	3.1	3.4	4.1	4.8	5.5	129	23	14	3.4
AC-FT	1850	2470	955	207	250	314	328	2290	12540	10540	3180	1720

CAL YR 1966 TOTAL 11901.3 MEAN 32.6 MAX 124 MIN 1.8 AC-FT 23610
WTR YR 1967 TOTAL 18475.0 MEAN 50.6 MAX 419 MIN 2.0 AC-FT 36650

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	4.4	131	55	34	6.7	9.1	3.8	2.2	15	27	79
2	4.4	4.4	131	54	35	6.7	9.1	3.1	2.2	20	27	86
3	4.4	48	131	48	28	6.3	4.3	3.1	2.2	20	27	59
4	4.1	52	131	40	12	6.3	.90	3.1	2.2	25	26	25
5	3.8	52	131	40	12	6.3	.90	3.1	2.2	32	29	5.7
6	2.7	70	131	40	12	6.3	1.0	3.1	2.2	32	31	2.4
7	2.0	99	129	40	12	6.7	1.2	3.1	2.2	32	31	3.8
8	2.0	105	127	40	12	6.7	1.2	3.1	2.2	25	35	3.8
9	2.0	110	127	39	12	7.2	1.8	3.1	2.2	17	40	10
10	7.8	118	127	39	12	7.2	3.1	3.1	2.4	23	42	14
11	23	124	125	39	13	7.2	3.4	3.1	2.7	27	42	17
12	31	82	125	39	13	7.7	3.8	3.1	2.7	27	40	20
13	31	65	124	39	13	7.2	4.1	3.1	2.7	27	34	22
14	47	65	122	39	13	7.2	5.1	3.4	2.7	27	32	24
15	61	52	122	39	13	7.7	6.3	3.4	2.7	27	28	24
16	67	46	120	38	13	7.7	5.8	3.4	2.7	27	37	21
17	72	100	120	38	13	8.2	6.3	3.4	2.7	27	41	16
18	72	138	118	38	14	9.6	7.2	3.4	2.7	27	41	16
19	70	136	117	38	15	9.6	7.7	3.4	3.1	27	29	19
20	78	117	117	37	14	9.6	8.6	3.4	3.1	27	18	22
21	86	105	115	37	14	10	8.6	3.4	3.1	27	23	22
22	86	113	81	37	15	12	7.3	3.4	3.1	27	27	22
23	86	113	56	36	15	14	2.7	3.4	3.1	23	27	22
24	85	124	56	36	15	13	2.7	3.4	3.4	19	27	22
25	85	134	56	37	15	17	3.1	2.7	2.4	19	39	22
26	90	134	55	37	10	18	3.8	2.4	2.0	23	54	22
27	91	134	55	37	6.7	8.2	4.1	2.2	14	26	70	28
28	91	134	55	36	6.7	8.2	4.1	2.2	12	26	78	32
29	59	132	55	36	6.7	8.6	4.4	2.2	7.2	26	78	32
30	2.4	132	55	32	---	9.1	4.4	2.2	6.7	26	78	32
31	3.7	---	55	32	---	9.6	---	2.2	---	26	78	---
TOTAL	1354.7	2842.8	3200	1212	419.1	275.8	136.10	94.5	107.0	779	1236	745.7
MEAN	43.7	94.8	103	39.1	14.5	8.90	4.54	3.05	3.57	25.1	39.9	24.9
MAX	91	138	131	55	35	18	9.1	3.8	14	32	78	86
MIN	2.0	4.4	55	32	6.7	6.3	.90	2.2	2.0	15	18	2.4
AC-FT	2690	5640	6350	2400	831	547	270	187	212	1550	2450	1480

CAL YR 1967 TOTAL 23215.90 MEAN 63.6 MAX 419 MIN 2.0 AC-FT 46050
WTR YR 1968 TOTAL 12402.70 MEAN 33.9 MAX 138 MIN .90 AC-FT 24600

11437000 CAPLES LAKE OUTLET NEAR KIRKWOOD, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	1.8	73	24	24	24	24	26	459	125	34	28
2	37	2.2	73	24	24	24	24	26	653	157	59	28
3	40	2.2	73	24	24	24	24	26	669	158	58	27
4	45	2.1	78	24	24	24	24	99	576	152	37	26
5	49	2.1	81	24	24	24	23	99	547	144	15	25
6	49	2.7	81	24	24	24	23	99	519	137	9.7	24
7	49	21	81	24	24	24	23	98	375	135	24	24
8	49	50	79	24	24	24	24	98	350	138	33	13
9	48	50	79	24	24	24	24	98	344	149	33	5.2
10	48	37	79	24	24	24	24	98	339	149	33	5.2
11	48	20	79	24	24	24	24	98	339	150	44	5.2
12	48	20	79	24	24	24	24	98	331	141	30	5.2
13	48	20	79	24	24	24	25	96	271	140	20	4.8
14	48	20	78	24	24	24	25	96	183	135	22	4.8
15	48	31	78	24	24	24	25	33	189	132	21	4.4
16	48	44	78	24	24	24	26	33	189	125	21	4.2
17	48	24	77	24	24	24	27	34	191	92	21	6.0
18	48	10	77	24	24	24	27	34	193	44	28	21
19	47	10	77	24	24	24	28	33	173	42	33	39
20	31	10	77	24	24	24	28	34	148	85	32	44
21	5.1	6.3	75	24	24	24	25	34	152	89	34	42
22	3.4	20	75	24	24	24	25	34	154	102	37	53
23	3.4	44	75	24	24	24	25	33	162	106	37	62
24	3.0	44	75	24	24	24	25	34	147	83	39	64
25	4.1	44	74	24	24	24	25	35	92	69	39	64
26	4.8	44	74	24	24	24	25	38	43	69	29	60
27	4.8	58	74	24	24	24	25	39	26	68	20	60
28	3.4	73	74	24	24	24	25	38	26	53	23	60
29	2.4	73	74	24	---	24	26	43	25	14	28	64
30	2.4	73	73	24	---	24	26	207	38	3.8	30	69
31	2.1	---	48	24	---	24	---	403	---	4.5	29	---
TOTAL	947.9	859.4	2347	744	672	744	748	2294	7903	3191.3	952.7	942.0
MEAN	30.6	28.6	75.7	24.0	24.0	24.0	24.9	74.0	263	103	30.7	31.4
MAX	49	73	81	24	24	24	28	403	669	158	59	69
MIN	2.1	1.8	48	24	24	24	23	26	25	3.8	9.7	4.2
AC-FT	1880	1700	4660	1480	1330	1480	1480	4550	15680	6330	1890	1870

CAL YR 1968 TOTAL 9159.50 MEAN 25.0 MAX 86 MIN .90 AC-FT 18170
WTR YR 1969 TOTAL 22345.30 MEAN 61.2 MAX 669 MIN 1.8 AC-FT 44320

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	74	113	2.4	16	17	17	3.4	31	5.7	96	58
2	71	73	113	8.7	16	17	19	3.7	71	6.1	93	60
3	78	73	112	14	17	17	17	3.7	128	79	99	64
4	81	73	112	14	17	17	17	3.7	172	89	106	65
5	47	73	117	14	17	17	17	4.1	185	91	107	65
6	3.7	40	120	14	17	17	17	3.7	185	91	110	64
7	4.1	36	118	14	16	16	17	3.7	183	78	112	64
8	4.1	62	118	14	16	16	17	3.7	184	71	112	69
9	3.7	62	117	14	16	16	17	4.1	197	70	112	82
10	3.4	62	117	14	16	17	17	3.7	194	55	113	95
11	3.4	62	117	14	16	17	17	3.7	151	46	115	96
12	3.4	62	113	14	17	17	17	3.7	110	46	113	98
13	3.4	60	112	14	17	17	17	4.1	101	30	115	96
14	3.4	52	112	14	17	17	17	4.1	101	11	117	96
15	3.7	47	110	14	17	17	17	4.4	73	36	115	95
16	3.7	47	109	17	17	17	17	4.4	23	47	115	95
17	3.4	46	107	15	17	17	17	4.4	6.1	30	118	95
18	3.4	64	106	15	16	17	17	4.4	29	26	120	92
19	3.4	75	106	15	16	17	17	4.4	98	27	120	91
20	24	78	106	15	16	17	17	41	129	39	118	91
21	36	82	106	20	16	17	11	64	140	45	122	89
22	37	82	106	17	16	17	3.4	37	179	45	123	88
23	37	81	104	16	17	17	3.4	15	176	58	122	86
24	46	88	104	16	17	17	3.7	15	175	68	115	85
25	52	99	104	16	17	17	4.1	15	168	69	91	85
26	52	104	102	16	17	17	3.7	15	353	68	68	88
27	59	102	101	16	17	17	3.7	15	415	78	56	55
28	63	112	106	16	17	17	3.9	17	264	82	50	2.7
29	63	115	102	16	---	17	3.8	20	69	86	50	3.4
30	63	115	49	16	---	17	3.6	25	10	92	50	3.4
31	69	---	2.4	16	---	17	---	31	---	96	56	---
TOTAL	1001.2	2201	3241.4	451.1	464	524	386.3	385.1	4300.1	1760.8	3129	2216.5
MEAN	32.3	73.4	105	14.6	16.6	16.9	12.9	12.4	143	56.8	101	73.9
MAX	81	115	120	20	17	17	19	64	415	96	123	98
MIN	3.4	36	2.4	2.4	16	16	3.4	3.4	6.1	5.7	50	2.7
AC-FT	1990	4370	6430	895	920	1040	766	764	8530	3490	6210	4400

CAL YR 1969 TOTAL 24634.6 MEAN 67.5 MAX 669 MIN 2.4 AC-FT 48860
WTR YR 1970 TOTAL 20060.5 MEAN 55.0 MAX 415 MIN 2.4 AC-FT 39790

11439500 SOUTH FORK AMERICAN RIVER NEAR KYBURZ, CALIF.

LOCATION.--Lat 38°45'49", long 120°19'39", in SW¼SW¼ sec.29, T.11 N., R.15 E., El Dorado County, Eldorado National Forest, on right bank beside U.S. Highway 50, 0.8 mile downstream from Silver Fork of South Fork and 1.9 miles southwest of Kyburz.

DRAINAGE AREA.--193 sq mi.

PERIOD OF RECORD.--August to December 1907, October 1922 to September 1970. Prior to October 1956, records for river and El Dorado Canal published separately; combined flow only, October 1956 to September 1960.

GAGE.--Water-stage recorders on river and canal diversion. Altitude of gage is 3,840 ft (from topographic map). Prior to Oct. 1, 1962, at datum 1.00 ft higher.

AVERAGE DISCHARGE.--48 years (1922-70, river only), 291 cfs (210,800 acre-ft per year). Average combined discharge of river and diversion, 48 years (1922-70), 404 cfs (292,700 acre-ft per year).

EXTREMES.--Maximums and minimums, river only (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (2,000 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
May 10, 1966	0515	*1,520	5.15	Jan. 21, 1969	0945	2,470	6.18	June 16, 1969	0030	2,760	6.38
				Jan. 26, 1969	0545	2,670	6.32				
Mar. 16, 1967	1615	3,070	6.62	Apr. 21, 1969	2115	2,140	5.92	Dec. 21, 1969	1315	3,800	7.06
May 22, 1967	2045	*4,940	7.59	May 10, 1969	1845	4,140	7.18	Jan. 16, 1970	1215	5,040	7.73
June 17, 1967	1845	4,240	7.23	May 17, 1969	1845	4,250	7.24	Jan. 21, 1970	-	*6,400	-
				May 23, 1969	1800	*4,280	7.25	May 17, 1970	2030	2,250	6.00
Feb. 20, 1968	0630	*1,640	5.32	May 31, 1969	1745	4,080	7.15	June 8, 1970	2330	2,070	5.84
								June 27, 1970	0415	2,200	5.96

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Sept.28, 1966	5.1	1969	Dec. 4, 7-9, 1968, Aug. 15, 1969	4.8
1967	Nov. 5, 1966	3.4	1970	Oct. 20, 1969	4.6
1968	Dec. 29, 1967	3.5			

Period of record: Maximum discharge, 17,400 cfs Dec. 23, 1964 (gage height, 10.92 ft), from rating curve extended above 6,300 cfs on basis of contracted-opening measurement at gage height 10.40 ft, present datum; minimum daily, 0.3 cfs Nov. 9-11, 1928.

Maximum and minimum combined discharges, in cubic feet per second, for the water years 1966-70 are contained in the following table:

	Maximum		Minimum daily	
Wtr yr	Date	Discharge	Date	Discharge
1966	May 10, 1966	1,680	Nov. 1, 1965	41
1967	May 22, 1967	5,080	Oct. 6, 1966	16
1968	Feb. 20, 1968	1,790	Dec. 23, 1967	16
1969	May 23, 1969	4,420	Oct. 27, 1968	21
1970	Jan. 21, 1970	6,540	Oct. 11, 12, 1969	30

Period of record: Maximum discharge, 17,500 cfs Dec. 23, 1964; minimum daily, 10 cfs Oct. 17, 19, 1929.

REMARKS.--No gage-height record Jan. 19-25, 1970. Flow at low and medium stages greatly regulated by four reservoirs since beginning of record (total usable capacity, 37,100 acre-ft). See schematic diagram of South Fork American River basin elsewhere in this report. For records of combined discharge of river and canal, see tables published herein. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

COOPERATION.--Gage-height record and 28 discharge measurements for river and gage-height record and 15 discharge measurements for canal for the water years 1966-67 furnished by Pacific Gas & Electric Co., in connection with a Federal Power Commission project; records (river and canal) for the water years 1968-70 collected by Pacific Gas & Electric Co., under general supervision of the Geological Survey.

REVISIONS (WATER YEARS).--WSP 1445: 1923(M), 1925(M), 1927(M), 1928(river only), 1935-37(M). WSP 1515: 1928(combined). WSP 1931: Drainage area.

11439500 SOUTH FORK AMERICAN RIVER NEAR KYBURZ, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	6.2	11	32	8.4	6.8	819	909	252	6.6	8.9	5.6
2	12	6.3	11	44	7.9	7.0	824	971	219	6.1	8.9	5.4
3	9.3	6.3	17	34	7.3	6.9	766	988	184	6.1	8.9	5.4
4	118	6.3	30	21	7.9	11	774	963	166	6.0	8.9	5.4
5	167	6.2	25	40	15	6.5	856	1050	157	6.2	8.9	5.6
6	163	6.2	18	43	24	6.5	894	968	158	6.5	8.8	6.6
7	158	6.2	14	12	15	8.4	959	954	153	6.4	8.9	7.6
8	155	6.2	12	6.8	20	15	990	1040	109	5.8	9.0	5.6
9	158	6.3	10	6.2	17	14	912	1060	164	5.3	8.9	5.7
10	161	6.3	7.0	6.2	9.3	114	817	1320	113	5.8	8.9	5.8
11	158	6.3	6.1	12	15	152	648	1080	66	5.8	8.9	5.8
12	164	8.3	6.5	10	7.8	125	583	879	50	5.8	8.7	7.1
13	162	20	6.2	15	12	303	525	816	44	5.7	8.2	6.0
14	160	128	7.6	14	9.8	308	539	777	44	5.7	8.2	8.7
15	182	110	15	13	7.1	276	650	661	34	5.7	8.8	5.7
16	166	20	58	11	5.7	197	781	643	26	7.6	8.8	5.6
17	156	138	84	8.9	6.4	121	891	640	21	8.8	8.9	5.6
18	152	630	90	10	6.4	104	799	630	15	9.0	8.8	5.7
19	160	178	84	8.3	6.4	134	555	666	10	9.0	8.8	5.6
20	134	78	73	12	6.2	114	472	667	7.0	8.9	8.8	5.6
21	134	31	34	22	6.4	104	477	671	5.7	9.0	8.8	5.6
22	162	14	33	22	6.4	116	516	621	5.6	8.9	8.9	5.5
23	166	79	26	17	6.8	145	551	535	5.6	9.0	8.9	5.4
24	170	83	28	14	6.7	222	693	484	5.7	9.0	8.9	5.4
25	110	70	27	12	6.9	262	881	453	5.7	9.1	7.0	5.4
26	101	51	45	9.1	8.4	328	991	420	5.8	9.2	5.7	5.4
27	92	45	29	7.1	7.0	397	929	383	5.7	9.2	5.7	5.2
28	57	36	22	7.5	7.3	470	848	340	5.8	9.1	5.7	5.1
29	39	36	25	7.2	---	543	845	295	6.4	9.0	5.6	5.2
30	6.3	29	27	14	---	616	871	269	6.1	9.1	5.6	5.2
31	6.0	---	23	10	---	708	---	281	---	8.9	5.5	---
TOTAL	3754.6	1853.1	904.4	501.3	270.5	5941.1	22656	22434	2050.1	232.3	252.2	173.5
MEAN	121	61.8	29.2	16.2	9.66	192	755	724	68.3	7.49	8.14	5.78
MAX	182	630	90	44	24	708	991	1320	252	9.2	9.0	8.7
MIN	6.0	6.2	6.1	6.2	5.7	6.5	472	269	5.6	5.3	5.5	5.1
AC-FT	7450	3680	1790	994	537	11780	44940	44500	4070	461	500	344

CAL YR 1965 TOTAL 161077.0 MEAN 441 MAX 2600 MIN 6.0 AC-FT 319500
WTR YR 1966 TOTAL 61023.1 MEAN 167 MAX 1320 MIN 5.1 AC-FT 121000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	4.4	94	4.6	280	81	372	125	1580	2560	148	8.8
2	5.2	4.1	287	5.3	208	83	337	162	1370	2530	131	9.1
3	28	4.2	331	4.6	170	97	304	209	1390	2410	114	9.9
4	22	4.1	104	4.6	152	80	292	280	1840	2220	75	9.1
5	17	3.4	265	4.6	152	63	268	272	2020	2060	46	13
6	16	4.4	850	5.5	136	58	242	326	1850	1860	34	15
7	19	4.1	391	9.8	138	65	239	630	2000	1660	25	8.9
8	19	3.9	185	4.6	140	75	234	998	2170	1490	8.5	13
9	19	3.9	118	4.6	140	97	247	1200	2330	1370	5.6	8.7
10	18	3.9	110	4.6	154	104	251	961	2340	1200	15	8.7
11	18	3.9	99	4.6	158	86	223	703	2300	896	12	11
12	18	3.9	76	4.6	178	212	208	596	2270	699	8.6	15
13	18	3.9	132	4.6	190	268	226	616	2220	689	8.6	11
14	18	3.9	61	4.6	198	286	253	780	2290	656	8.8	13
15	17	4.1	51	4.6	148	220	235	1220	2470	619	12	15
16	17	69	26	4.6	130	1820	209	1710	2840	653	15	9.1
17	17	6.5	20	5.4	112	1930	285	2080	3270	758	8.6	12
18	17	3.7	17	5.6	114	1090	272	2150	3200	659	11	43
19	17	4.4	15	4.7	116	781	239	2270	2980	529	8.4	14
20	17	179	17	5.6	122	665	199	2790	2730	465	10	7.1
21	13	12	9.5	93	162	625	174	3400	2820	409	8.6	9.6
22	4.4	4.2	5.2	39	94	660	160	3690	2730	330	8.6	15
23	3.7	3.9	5.4	44	86	706	154	3660	2610	296	15	12
24	3.6	3.7	5.5	22	83	610	151	3580	2650	282	67	9.7
25	3.9	3.6	6.3	16	80	545	142	3320	2820	266	30	8.8
26	3.6	3.6	4.4	38	68	491	136	3210	2890	231	22	6.7
27	3.9	3.6	4.7	162	65	451	152	3040	2900	184	8.5	35
28	4.4	449	33	215	67	605	133	2790	2790	174	8.5	29
29	4.1	596	56	640	---	532	123	2520	2660	150	8.6	30
30	4.1	150	20	554	---	455	121	2260	2640	152	8.6	22
31	4.1	---	5.3	443	---	411	---	1940	---	141	11	---
TOTAL	395.2	1552.3	3404.3	2367.7	3841	14252	6581	53488	72970	28598	901.5	432.2
MEAN	12.7	51.7	110	76.4	137	460	219	1725	2432	923	29.1	14.4
MAX	28	596	850	640	280	1930	372	3690	3270	2560	148	43
MIN	3.6	3.4	4.4	4.6	65	58	121	125	1370	141	5.6	6.7
AC-FT	784	3080	6750	4700	7620	28270	13050	106100	144700	56720	1790	857

CAL YR 1966 TOTAL 59862.8 MEAN 164 MAX 1320 MIN 3.4 AC-FT 118700
WTR YR 1967 TOTAL 188783.2 MEAN 517 MAX 3690 MIN 3.4 AC-FT 374500

11439500 SOUTH FORK AMERICAN RIVER NEAR KYBURZ, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	35	28	4.6	5.5	287	532	751	375	7.8	8.7	5.7
2	23	33	20	4.6	5.3	240	379	674	382	7.8	8.7	5.7
3	136	25	13	4.2	5.3	235	302	679	371	7.6	8.7	9.8
4	70	13	19	4.6	6.8	237	290	695	328	7.6	8.7	7.6
5	44	4.8	52	4.1	6.4	251	324	622	267	7.8	8.7	7.6
6	34	4.8	21	4.1	5.3	210	267	501	203	7.6	8.7	5.7
7	21	5.9	23	4.4	5.5	185	276	463	194	7.6	8.9	5.3
8	13	11	18	4.4	5.7	192	315	492	150	7.6	8.9	5.3
9	7.8	6.2	14	4.4	6.6	168	397	505	132	7.6	8.9	5.5
10	5.1	7.6	13	5.1	6.2	147	532	501	122	7.6	8.9	5.5
11	5.3	6.4	11	4.6	5.9	134	648	463	109	7.6	8.9	5.7
12	14	4.9	6.6	5.1	5.9	125	637	463	106	7.6	8.9	5.7
13	8.7	4.9	33	4.9	5.9	132	573	404	91	7.6	8.9	5.7
14	5.1	5.3	82	5.1	5.7	127	598	393	78	7.6	8.9	5.7
15	11	5.1	87	143	5.7	114	643	412	70	7.6	8.9	5.7
16	9.5	5.1	70	116	5.9	134	545	382	58	7.6	8.9	5.7
17	16	5.1	69	27	47	129	408	386	54	7.6	8.9	5.7
18	10	17	83	8.1	127	138	331	423	29	7.6	8.9	5.7
19	6.8	46	86	55	109	94	321	527	23	7.6	15	5.7
20	11	36	81	5.5	1250	86	318	617	11	9.5	51	5.5
21	16	4.9	83	5.9	810	94	302	612	8.4	10	8.7	5.5
22	16	4.9	67	5.7	569	111	270	479	8.1	10	8.7	5.5
23	15	4.9	16	106	937	113	296	382	7.8	11	8.7	5.5
24	12	4.9	17	34	685	125	344	321	7.6	10	8.4	5.5
25	10	10	26	5.5	467	154	408	354	7.6	8.4	8.4	5.5
26	8.4	8.1	41	5.7	404	147	527	404	7.6	7.3	8.7	5.5
27	11	6.6	31	5.7	375	139	598	463	7.6	7.3	8.9	5.5
28	8.9	8.7	10	5.9	341	203	648	514	7.8	7.3	8.7	5.3
29	6.4	14	3.5	6.2	293	344	768	505	7.6	7.1	7.1	5.3
30	59	24	5.1	7.1	---	467	792	439	7.6	8.1	5.7	5.3
31	55	---	5.5	6.6	---	492	---	393	---	8.9	5.7	---
TOTAL	674.7	373.1	1134.7	613.1	6507.6	5754	13589	15219	3230.7	249.9	312.7	174.9
MEAN	21.8	12.4	36.6	19.8	224	186	453	491	108	8.06	10.1	5.83
MAX	136	46	87	143	1250	492	792	751	382	11	51	9.8
MIN	5.1	4.8	3.5	4.1	5.3	86	267	321	7.6	7.1	5.7	5.3
AC-FT	1340	740	2250	1220	12910	11410	26950	30190	6410	496	620	347

CAL YR 1967 TOTAL 185613.9 MEAN 509 MAX 3690 MIN 3.5 AC-FT 368200
WTR YR 1968 TOTAL 47833.4 MEAN 131 MAX 1250 MIN 3.5 AC-FT 94880

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	29	5.2	7.0	292	92	1100	1640	3100	659	5.5	7.2
2	5.3	175	5.2	6.5	258	82	993	1530	3180	724	34	7.2
3	5.5	753	5.0	5.0	226	85	776	1290	3160	713	28	7.4
4	5.5	169	4.8	14	211	78	764	1180	2990	680	21	7.4
5	5.5	102	5.0	6.8	204	69	943	1540	2930	654	8.1	7.4
6	5.5	81	5.0	7.9	202	62	747	2050	2750	608	6.4	7.4
7	5.5	24	4.8	12	179	58	613	2420	2430	565	5.5	7.7
8	5.5	5.3	4.8	9.7	159	55	569	2770	2010	541	5.3	10
9	5.5	16	4.8	5.2	147	54	569	3160	1770	546	5.3	7.4
10	5.5	24	18	6.8	139	53	584	3360	1480	537	5.3	7.7
11	5.5	5.2	43	6.1	139	49	788	3420	1440	532	5.0	7.7
12	5.9	137	28	5.7	141	48	1010	3260	1470	510	5.0	7.7
13	6.3	27	23	124	121	48	1040	3250	1640	537	5.0	7.7
14	11	5.2	25	184	124	47	931	3000	1640	519	5.2	7.7
15	5.3	5.0	37	99	139	55	776	2720	1750	471	4.8	7.7
16	5.2	5.0	29	49	145	75	794	2860	1840	415	6.8	8.7
17	5.2	5.2	43	29	124	87	961	3310	1480	347	7.9	8.9
18	5.2	182	52	41	119	110	1140	3330	1570	283	7.9	7.9
19	5.2	179	60	1010	112	122	1170	2970	1520	199	7.9	8.1
20	5.2	66	57	1920	107	131	1400	2750	1440	236	7.7	7.9
21	41	39	61	1820	101	128	1690	2770	1300	229	7.7	8.4
22	33	13	79	836	93	130	1870	3130	1260	219	7.9	8.4
23	26	28	47	598	95	175	1730	3380	1240	224	7.7	8.4
24	24	10	58	484	95	195	1300	3330	1170	199	7.4	7.2
25	22	5.2	54	1140	117	214	1060	3080	1040	151	7.4	13
26	22	5.0	43	1700	109	275	967	3200	867	124	11	7.2
27	21	5.0	44	849	93	378	993	3200	736	110	7.9	6.1
28	22	6.3	42	603	92	510	1230	2790	588	93	7.7	5.9
29	23	5.9	36	455	---	670	1500	2820	555	67	7.4	5.5
30	32	5.3	33	385	---	913	1610	2930	565	25	7.4	6.1
31	33	---	29	327	---	1120	---	3280	---	5.9	7.2	---
TOTAL	413.6	2117.6	985.6	12745.7	4083	6168	31618	85720	50911	11722.9	274.3	233.0
MEAN	13.3	70.6	31.8	411	146	199	1054	2765	1697	378	8.85	7.77
MAX	41	753	79	1920	292	1120	1870	3420	3180	724	34	13
MIN	5.2	5.0	4.8	5.0	92	47	569	1180	555	5.9	4.8	5.5
AC-FT	820	4200	1950	25280	8100	12230	62710	170000	101000	23250	544	462

CAL YR 1968 TOTAL 49167.7 MEAN 134 MAX 1250 MIN 4.1 AC-FT 97520
WTR YR 1969 TOTAL 206992.7 MEAN 567 MAX 3420 MIN 4.8 AC-FT 410600

11439500 SOUTH FORK AMERICAN RIVER NEAR KYBURZ, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	5.0	6.0	76	493	313	310	425	1120	198	8.4	7.6
2	6.2	5.0	10	54	452	289	339	536	1160	165	7.6	7.6
3	5.2	5.0	6.7	45	429	260	363	701	1190	151	7.9	7.6
4	9.2	5.0	5.4	40	417	252	366	834	1200	241	7.9	8.7
5	8.4	23	5.6	35	402	241	432	777	1110	228	8.1	8.1
6	43	66	11	40	380	243	506	799	1050	218	7.9	7.9
7	37	6.9	7.6	45	377	265	514	744	1020	176	9.8	7.6
8	33	14	10	50	380	280	489	722	1130	138	11	7.9
9	31	17	8.9	113	373	254	514	799	1480	134	8.4	7.6
10	31	15	9.5	265	359	246	591	805	1000	121	7.9	9.2
11	30	17	14	140	359	228	559	640	811	92	10	6.0
12	30	24	12	136	425	225	527	596	655	79	8.7	6.0
13	31	26	16	149	406	277	502	696	550	67	7.9	6.0
14	31	20	12	452	366	363	429	913	554	34	7.9	6.0
15	55	6.4	6.7	313	359	384	380	1130	460	26	8.1	6.9
16	323	30	6.0	3220	349	353	363	1440	391	55	7.9	6.9
17	90	9.5	5.4	1840	349	377	339	1630	356	32	7.9	6.0
18	4.8	5.2	5.4	1040	320	320	333	1660	398	6.2	8.4	7.4
19	4.8	5.2	119	820	295	292	363	1520	554	5.6	8.9	6.2
20	4.6	5.0	1050	1170	280	277	320	1340	711	5.2	8.1	6.0
21	5.2	5.0	1520	4030	271	289	298	1320	680	6.4	8.1	6.0
22	8.1	5.0	568	3700	263	320	268	1330	645	5.2	7.9	6.0
23	5.4	4.8	346	2000	260	373	254	1290	635	5.2	8.1	6.0
24	4.8	5.4	489	1800	263	436	326	1280	611	5.6	7.9	6.0
25	4.8	5.0	817	951	260	485	339	1330	554	5.6	11	6.0
26	4.8	5.0	417	957	271	464	398	1380	788	5.2	9.2	6.0
27	4.8	5.0	289	1100	286	425	326	1290	1580	5.4	10	6.0
28	5.0	5.2	233	805	289	398	295	1160	864	5.6	8.1	47
29	4.8	11	228	685	---	432	295	1140	460	5.2	7.9	38
30	5.0	6.9	191	611	---	402	342	1140	265	5.4	7.9	31
31	5.0	---	90	541	---	339	---	1120	---	7.4	7.9	---
TOTAL	873.0	368.5	6515.2	27223	9733	10102	11680	32487	23982	2234.2	262.7	301.2
MEAN	28.2	12.3	210	878	348	326	389	1048	799	72.1	8.47	10.0
MAX	323	66	1520	4030	493	485	591	1660	1580	241	11	47
MIN	4.6	4.8	5.4	35	260	225	254	425	265	5.2	7.6	6.0
AC-FT	1730	731	12920	54000	19310	20040	23170	64440	47570	4430	521	597

CAL YR 1969 TOTAL 211232.6 MEAN 579 MAX 3420 MIN 4.6 AC-FT 419000
WTR YR 1970 TOTAL 125761.8 MEAN 345 MAX 4030 MIN 4.6 AC-FT 249400

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF SOUTH FORK AMERICAN RIVER AND EL DORADO CANAL NEAR KYBURZ, CALIF., WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	184	41	171	167	151	156	972	1070	348	124	149	146
2	180	134	171	179	147	152	982	1130	315	123	153	144
3	176	173	177	169	149	140	924	1150	280	119	146	148
4	160	171	190	156	151	145	933	1120	262	118	144	146
5	168	170	185	175	159	140	1020	1210	253	116	141	147
6	164	171	178	183	168	146	1050	1130	254	130	146	141
7	159	168	174	158	157	156	1120	1110	261	128	144	144
8	155	169	172	152	163	166	1150	1200	249	131	152	144
9	158	169	170	147	161	164	1070	1220	314	135	150	139
10	162	173	166	145	155	261	975	1480	272	132	150	149
11	158	171	164	158	154	295	806	1240	232	130	147	124
12	164	176	164	156	155	268	741	1040	216	129	146	107
13	162	188	160	161	155	445	684	978	206	128	143	121
14	161	288	160	164	157	450	697	939	200	125	143	153
15	183	271	172	165	145	419	809	823	201	122	145	142
16	167	189	208	163	142	344	939	804	192	132	150	140
17	157	306	219	161	138	279	1050	802	186	132	148	145
18	152	784	218	159	142	266	957	792	177	130	146	148
19	160	337	212	159	144	297	713	828	172	134	142	148
20	138	244	196	159	143	277	629	829	163	133	147	149
21	134	199	157	162	144	267	632	832	154	130	144	146
22	163	182	156	162	143	279	671	781	146	130	141	150
23	167	243	149	156	154	308	706	695	135	136	144	126
24	171	243	151	153	153	385	848	644	134	135	144	124
25	163	230	150	152	130	424	1040	613	147	133	144	122
26	177	212	168	150	146	490	1150	580	134	135	144	122
27	172	205	157	150	150	559	1090	543	131	134	142	125
28	173	196	157	148	153	632	1010	504	132	131	141	125
29	74	196	162	150	---	705	1000	464	131	135	147	126
30	46	189	162	157	---	775	1030	409	127	146	146	126
31	43	---	160	153	---	865	---	377	---	150	146	---
TOTAL	4751	6588	5356	4929	4209	10655	27398	27337	6124	4046	4515	4117
MEAN	153	220	173	159	150	344	913	882	204	131	146	137
MAX	184	784	219	183	168	865	1150	1480	348	150	153	153
MIN	43	41	149	145	130	140	629	377	127	116	141	107
AC-FT	9420	13070	10620	9780	8350	21130	54340	54220	12150	8030	8960	8170

CAL YR 1965 TOTAL 210831 MEAN 578 MAX 2740 MIN 41 AC-FT 418200
WTR YR 1966 TOTAL 110025 MEAN 301 MAX 1480 MIN 41 AC-FT 218200

11439500 SOUTH FORK AMERICAN RIVER NEAR KYBURZ, CALIF.--CONTINUED

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF SOUTH FORK AMERICAN RIVER AND EL DORADO CANAL
NEAR KYBURZ, CALIF., WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124	157	255	125	420	240	453	273	1720	2720	314	166
2	123	154	442	124	348	242	418	312	1510	2690	297	175
3	56	151	480	121	310	255	403	360	1530	2570	280	178
4	22	150	265	121	292	238	402	426	1980	2380	238	177
5	17	45	415	121	292	221	390	413	2150	2220	212	182
6	16	26	993	106	283	216	372	466	1980	2020	199	183
7	19	30	531	131	288	223	371	770	2130	1820	191	174
8	19	56	333	106.	290	234	364	1140	2300	1650	172	177
9	19	100	273	105	290	256	377	1330	2460	1530	147	165
10	18	86	265	101	304	263	388	1080	2480	1360	176	158
11	18	90	254	101	308	244	363	827	2450	1060	167	163
12	18	88	231	104	328	314	348	720	2320	864	152	184
13	18	85	232	104	340	333	366	741	2370	854	166	179
14	18	84	216	109	348	353	394	912	2440	821	172	181
15	17	92	208	111	298	284	375	1360	2520	784	179	183
16	17	216	187	115	279	1880	349	1840	2990	819	177	173
17	17	150	181	108	262	1990	352	2220	3420	924	161	171
18	17	106	178	107	264	1160	363	2280	3350	824	178	211
19	17	90	176	106	266	845	340	2400	3130	694	169	179
20	17	330	178	114	248	729	316	2920	2890	630	178	149
21	25	170	170	219	245	689	307	3540	2980	574	173	179
22	96	138	159	164	237	723	297	3820	2880	496	163	184
23	149	115	157	170	216	769	291	3800	2770	461	162	181
24	148	97	146	158	213	672	288	3720	2810	448	235	179
25	156	92	145	152	210	610	279	3460	2980	432	198	177
26	154	96	144	178	218	555	278	3340	3050	397	190	174
27	158	90	141	302	219	515	297	3180	3060	349	166	202
28	158	559	150	355	226	609	278	2920	2950	339	158	197
29	165	758	142	780	---	596	268	2660	2820	316	173	199
30	162	312	133	694	---	518	266	2400	2800	317	156	190
31	158	---	128	583	---	483	---	2080	---	306	177	---
TOTAL	2136	4713	7908	5995	7842	17259	10353	57710	77220	33669	5876	5370
MEAN	68.9	157	255	193	280	557	345	1862	2574	1086	190	179
MAX	165	758	993	780	420	1990	453	3820	3420	2720	314	211
MIN	16	26	128	101	210	216	266	273	1510	306	147	149
AC-FT	4240	9350	15690	11890	15550	34230	20540	114500	153200	66780	11660	10650

CAL YR 1966 TOTAL 108087 MEAN 296 MAX 1480 MIN 16 AC-FT 214400
WTR YR 1967 TOTAL 236051 MEAN 647 MAX 3820 MIN 16 AC-FT 468200

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF SOUTH FORK AMERICAN RIVER AND EL DORADO CANAL
NEAR KYBURZ, CALIF., WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	160	35	176	110	140	432	681	907	540	111	139	122
2	188	33	178	93	137	385	526	830	548	124	131	130
3	304	25	171	99	149	380	453	835	538	117	127	137
4	238	57	186	88	130	384	441	851	497	114	126	143
5	213	132	204	74	120	397	475	778	435	126	124	140
6	202	130	189	59	119	355	418	657	370	130	127	128
7	189	132	183	61	120	331	428	619	363	123	126	121
8	181	167	178	87	120	338	467	648	319	117	125	129
9	175	164	177	88	134	314	549	662	301	113	130	116
10	170	167	176	85	128	292	684	657	291	124	141	122
11	170	165	174	21	124	279	799	619	278	134	141	122
12	181	164	127	22	125	270	789	619	275	132	139	123
13	177	108	91	22	126	277	724	560	260	130	135	122
14	165	132	124	22	120	272	750	550	247	128	135	126
15	180	97	100	283	114	259	795	568	239	128	128	124
16	178	86	131	163	118	273	697	538	227	125	123	121
17	183	163	69	172	189	264	560	543	222	123	132	120
18	178	182	83	148	272	251	483	580	200	123	131	133
19	175	207	86	139	254	242	473	684	194	120	151	132
20	180	190	81	136	1400	238	470	774	178	120	191	138
21	185	159	83	140	955	246	454	769	167	120	130	136
22	185	161	67	145	714	263	422	636	160	120	140	134
23	184	156	16	140	1080	265	448	538	153	131	126	128
24	181	167	17	144	830	277	496	481	142	127	115	124
25	125	172	100	142	612	303	560	514	132	124	104	122
26	148	170	133	139	549	296	681	564	124	122	112	126
27	151	169	157	126	520	290	754	624	115	127	120	122
28	170	171	140	129	487	355	804	675	138	126	131	132
29	167	163	122	126	438	496	924	666	117	125	127	130
30	136	172	119	120	---	619	948	600	112	125	124	130
31	55	---	116	127	---	644	---	555	---	140	122	---
TOTAL	5474	4196	3954	3450	10324	10287	18153	20101	7882	3849	4053	3833
MEAN	177	140	128	111	356	332	605	648	263	124	131	128
MAX	304	207	204	283	1400	644	948	907	548	140	191	143
MIN	55	25	16	21	114	238	418	481	112	111	104	116
AC-FT	10860	8320	7840	6840	20480	20400	36010	39870	15630	7630	8040	7600

CAL YR 1967 TOTAL 234918 MEAN 644 MAX 3820 MIN 16 AC-FT 466000
WTR YR 1968 TOTAL 95556 MEAN 261 MAX 1400 MIN 16 AC-FT 189500

11439500 SOUTH FORK AMERICAN RIVER NEAR KYBURZ, CALIF.--CONTINUED

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF SOUTH FORK AMERICAN RIVER AND EL DORADO CANAL NEAR KYBURZ, CALIF., WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	29	155	111	407	236	1230	1770	3240	815	166	157
2	124	175	147	110	374	226	1120	1670	3320	880	194	154
3	129	753	148	112	349	229	899	1430	3300	872	188	156
4	126	169	147	132	338	222	887	1320	3130	840	151	159
5	131	102	154	141	331	213	1070	1680	3070	814	148	156
6	129	81	153	148	329	207	870	2190	2890	768	141	161
7	125	68	152	155	305	202	736	2560	2570	725	132	165
8	121	121	154	152	289	199	692	2910	2150	701	140	172
9	117	170	150	137	279	198	692	3300	1910	705	153	156
10	113	178	165	129	273	198	707	3500	1620	697	151	160
11	109	123	185	136	278	194	913	3560	1580	692	150	157
12	110	290	170	148	279	193	1140	3400	1610	670	160	161
13	122	180	165	253	261	193	1170	3390	1780	697	146	161
14	146	134	167	314	264	192	1060	3140	1790	679	163	155
15	121	135	176	234	279	200	905	2860	1900	631	163	147
16	112	152	162	184	285	220	923	3000	1990	575	161	153
17	108	150	162	164	263	232	1090	3450	1640	507	159	158
18	104	301	164	176	258	255	1270	3470	1720	443	156	142
19	100	280	161	1130	251	267	1300	3110	1680	359	162	155
20	97	167	165	2040	246	276	1540	2890	1600	396	160	160
21	56	139	177	1940	240	273	1820	2910	1460	389	157	154
22	33	122	199	950	232	274	2000	3270	1420	379	161	150
23	26	180	171	713	234	320	1860	3520	1400	384	158	163
24	24	164	183	599	235	339	1440	3470	1330	359	154	163
25	22	155	178	1260	261	359	1200	3220	1200	311	152	176
26	22	140	167	1820	253	420	1100	3340	1020	284	176	169
27	21	137	169	960	237	522	1130	3340	892	270	160	169
28	22	156	167	717	236	654	1360	2930	743	251	157	167
29	23	153	161	571	---	815	1640	2960	710	227	158	166
30	32	154	157	500	---	1050	1750	3070	721	182	162	170
31	33	---	153	443	---	1250	---	3420	---	155	159	---
TOTAL	2686	5258	5084	16579	7866	10628	35514	90050	55386	16657	4898	4792
MEAN	86.6	175	164	535	281	343	1184	2905	1846	537	158	160
MAX	146	753	199	2040	407	1250	2000	3560	3320	880	194	176
MIN	21	29	147	110	232	192	692	1320	710	155	132	142
AC-FT	5330	10430	10080	32880	15600	21080	70440	178600	109900	33040	9720	9500

CAL YR 1968 TOTAL 94960 MEAN 259 MAX 1400 MIN 21 AC-FT 188400
WTR YR 1969 TOTAL 255398 MEAN 700 MAX 3560 MIN 21 AC-FT 506600

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF SOUTH FORK AMERICAN RIVER AND EL DORADO CANAL NEAR KYBURZ, CALIF., WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	172	169	166	215	633	453	451	565	1270	358	168	168
2	171	167	171	193	592	429	481	676	1310	325	162	167
3	167	165	167	176	569	400	504	841	1340	311	160	170
4	176	163	163	159	557	392	507	974	1350	401	168	172
5	171	180	162	143	542	381	572	917	1260	388	168	172
6	68	217	172	147	520	383	647	939	1200	378	166	171
7	39	143	169	159	517	405	655	884	1170	336	170	168
8	34	170	172	184	520	420	630	862	1280	298	171	167
9	32	178	171	253	514	395	655	939	1630	294	167	172
10	31	176	172	404	499	386	732	945	1150	281	166	172
11	30	177	176	280	499	368	700	780	958	252	170	164
12	30	183	174	276	565	365	667	736	802	239	169	166
13	31	186	178	288	546	417	642	836	697	227	166	164
14	31	181	174	592	506	503	569	1050	707	193	167	165
15	73	166	167	453	499	523	520	1270	620	186	166	172
16	431	191	165	3360	489	493	504	1580	551	215	166	171
17	193	164	159	1980	489	516	480	1770	516	192	166	169
18	105	144	161	1180	460	459	473	1800	558	159	168	172
19	147	161	274	960	435	432	504	1660	714	158	169	169
20	140	157	1200	1310	420	417	460	1480	871	155	166	166
21	167	163	1670	4170	411	429	438	1460	840	164	166	168
22	175	157	717	3840	403	460	409	1470	805	158	169	165
23	170	152	496	2140	400	513	394	1430	795	152	167	163
24	163	149	639	1940	403	576	466	1420	771	165	164	166
25	170	159	967	1090	400	626	479	1470	714	165	173	161
26	165	166	566	1100	411	604	538	1520	948	159	163	165
27	163	163	439	1240	426	565	466	1430	1740	156	164	162
28	168	159	378	945	429	538	435	1300	1020	165	153	74
29	165	171	367	825	---	572	435	1280	620	161	165	41
30	163	168	330	751	---	542	483	1280	425	164	164	34
31	161	---	229	680	---	481	---	1260	---	167	162	---
TOTAL	4102	5045	11311	31433	13654	14443	15896	36824	28632	7122	5149	4676
MEAN	132	168	365	1014	488	466	530	1188	954	230	166	156
MAX	431	217	1670	4170	633	626	732	1800	1740	401	173	172
MIN	30	143	159	143	400	365	394	565	425	152	153	34
AC-FT	8140	10010	22440	62350	27080	28650	31530	73040	56790	14130	10210	9270

CAL YR 1969 TOTAL 262828 MEAN 720 MAX 3560 MIN 30 AC-FT 521300
WTR YR 1970 TOTAL 178287 MEAN 488 MAX 4170 MIN 30 AC-FT 353600

11440000 ALDER CREEK NEAR WHITE HALL, CALIF.

LOCATION.--Lat 38°45'19", long 120°22'17", in NE¼SE¼ sec.35, T.11 N., R.14 E., El Dorado County, Eldorado National Forest, on right bank 0.9 mile upstream from mouth and 2.2 miles southeast of White Hall.

DRAINAGE AREA.--22.1 sq mi.

PERIOD OF RECORD.--October 1922 to September 1970 (includes diversions by pipeline).

GAGE.--Water-stage recorder. Broad-crested V-notch weir since Aug. 28, 1964. Altitude of gage is 3,840 ft (from topographic map). Prior to July 23, 1924, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--48 years, 37.7 cfs (27,310 acre-ft per year), including diversions by pipeline.

EXTREMES.--Maximums and minimums, creek only (discharge, in cubic feet per second, gage height, in feet).

Annual maximum discharge (*) and peak discharges above base (170 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Apr. 10, 1966	0400	*203	3.31	Feb. 20, 1968	0500	*317	3.65	May 9, 1969	1745	353	3.76
Dec. 2, 1966	2215	287	3.57	Jan. 13, 1969	1745	214	3.33	Dec. 21, 1969	1515	339	3.72
Dec. 6, 1966	1215	560	4.20	Jan. 21, 1969	0915	*1,360	5.54	Dec. 25, 1969	1015	418	3.93
Jan. 29, 1967	1200	370	3.78	Jan. 26, 1969	0500	858	4.82	Jan. 16, 1970	-	-	-
Mar. 16, 1967	1245	*565	4.27	Apr. 5, 1969	1130	240	3.42	Jan. 21, 1970	-	*1,350	5.56
May 21, 1967	1830	555	4.25	Apr. 21, 1969	2115	321	3.67	Jan. 24, 1970	0145	686	4.52
								Jan. 27, 1970	0630	477	4.07

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Many days	.20	1969	Dec. 4, 5, 1968	.03
1967	do.	.30	1970	Many days	.03
1968	Feb. 1, May 29, 1968	.09			

Period of record: Maximum discharge, 5,500 cfs Dec. 23, 1955 (gage height, 8.40 ft, from floodmarks), from rating curve extended above 500 cfs; no flow at times in several years.

REMARKS.--Records, at times, include computed flow in feeder pipeline that is diverted 1,300 ft above station into El Dorado Canal. See schematic diagram for South Fork American River basin elsewhere in this report.

COOPERATION.--Gage-height record and 25 discharge measurements for the water years 1966-67 furnished by Pacific Gas & Electric Co., in connection with a Federal Power Commission project; records for the water years 1968-70 collected by Pacific Gas & Electric Co., under general supervision of the Geological Survey.

REVISIONS (WATER YEARS).--WSP 1215: 1928(M). WSP 1445: 1925(M), 1929, 1935-36(M), 1938(M), 1940-43(M), 1945(M). WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	.90	10	6.2	7.7	15	172	52	6.3	1.9	.60	.30
2	1.0	.80	11	6.2	7.7	13	179	48	6.0	1.9	.60	.30
3	1.0	.80	12	6.2	7.7	10	175	46	5.8	1.8	.60	.30
4	1.2	.80	12	6.3	7.8	6.5	175	46	5.5	1.7	.50	.30
5	.90	.80	12	6.5	7.8	9.3	169	45	5.3	1.7	.50	.30
6	.70	.90	12	6.5	7.8	12	169	42	5.1	1.7	.40	.30
7	.40	.90	11	6.6	7.8	14	165	37	5.4	1.6	.40	.30
8	.30	.90	9.2	6.5	9.1	22	160	35	5.5	1.5	.40	.30
9	.40	1.2	9.8	6.5	9.4	31	151	33	5.4	1.7	.40	.30
10	.80	1.2	10	6.5	9.4	65	179	35	5.0	1.6	.40	.30
11	.80	1.2	10	8.5	9.3	64	167	33	4.6	1.5	.40	.30
12	.80	1.8	10	10	9.4	60	162	29	4.3	1.5	.40	.30
13	.80	3.2	10	9.9	9.4	83	140	25	4.0	1.4	.30	.30
14	.90	12	8.0	9.5	9.4	83	122	23	3.5	1.3	.30	.30
15	3.5	9.3	5.2	9.5	9.9	80	111	20	3.2	1.3	.30	.40
16	3.5	7.0	4.9	9.5	10	81	111	18	3.2	1.2	.30	.40
17	2.4	11	4.9	9.5	10	80	113	17	3.1	1.0	.30	.40
18	2.1	88	4.9	10	10	75	113	16	2.9	1.0	.30	.40
19	1.8	43	4.9	10	10	77	102	15	2.9	.90	.30	.50
20	1.6	24	4.9	10	10	77	93	14	2.7	.90	.30	.40
21	1.4	15	5.6	10	10	75	80	13	2.6	.90	.30	.40
22	1.4	12	6.2	10	11	74	76	12	2.6	.80	.30	.40
23	1.2	20	6.0	10	14	74	72	11	2.6	.80	.30	.30
24	1.2	28	5.8	10	16	81	68	10	2.4	.70	.30	.30
25	1.0	21	5.8	9.1	16	89	68	9.8	2.4	.60	.30	.30
26	1.0	15	5.8	7.7	16	99	68	9.2	2.3	.60	.30	.30
27	1.0	14	5.8	7.7	16	111	68	8.7	2.1	.60	.30	.30
28	.90	12	6.1	7.7	16	122	63	8.1	2.1	.50	.30	.30
29	.90	12	6.2	7.7	---	136	60	6.9	2.0	.50	.30	.30
30	.90	11	6.2	7.7	---	149	56	6.9	1.9	.50	.30	.30
31	.90	---	6.3	7.7	---	162	---	6.5	---	.50	.30	---
TOTAL	37.90	369.70	242.5	255.7	294.6	2129.8	3607	731.1	112.7	36.10	11.30	9.90
MEAN	1.22	12.3	7.82	8.25	10.5	68.7	120	23.6	3.76	1.16	.36	.33
MAX	3.5	88	12	10	16	162	179	52	6.3	1.9	.60	.50
MIN	.30	.80	4.9	6.2	7.7	6.5	56	6.5	1.9	.50	.30	.30
AC-FT	75	733	481	507	584	4220	7150	1450	224	72	22	20

CAL YR 1965 TOTAL 17825.90 MEAN 48.8 MAX 266 MIN .30 AC-FT 35360
WTR YR 1966 TOTAL 7838.30 MEAN 21.5 MAX 179 MIN .30 AC-FT 15550

11440000 ALDER CREEK NEAR WHITE HALL, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.30	.30	26	14	179	50	106	46	173	48	4.3	2.5
2	.30	.30	117	14	141	51	96	53	153	43	4.2	2.5
3	.30	.30	107	14	119	52	90	63	144	38	4.0	2.6
4	.30	.30	52	13	105	49	86	76	157	33	3.9	2.7
5	.30	.30	143	13	98	47	80	81	179	29	3.7	2.8
6	.30	.40	328	11	93	46	78	93	170	25	3.6	2.6
7	.30	.30	165	15	91	45	76	129	168	22	3.5	2.5
8	.30	.30	99	12	89	46	71	179	169	20	3.5	2.5
9	.30	.30	75	11	88	47	72	222	170	18	3.4	2.5
10	.30	.40	69	11	87	49	74	227	164	16	3.3	2.4
11	.30	.70	60	11	87	44	70	191	158	15	3.2	2.5
12	.30	.60	53	11	91	46	68	168	155	13	3.1	2.3
13	.30	.60	48	11	93	45	72	164	147	12	3.0	2.3
14	.30	.60	42	11	94	49	75	183	142	11	2.9	2.3
15	.30	.90	38	11	86	50	72	231	140	10	2.7	2.3
16	.30	9.8	36	11	79	378	67	294	141	10	2.7	2.2
17	.30	4.4	33	11	74	456	67	358	148	9.2	2.7	2.3
18	.30	2.8	31	11	72	305	66	382	151	8.5	2.6	3.1
19	.30	2.9	30	11	69	236	64	383	138	8.0	2.4	2.6
20	.30	22	29	13	64	203	58	420	126	7.4	2.4	2.3
21	.30	12	27	72	61	187	56	464	119	7.0	2.4	2.2
22	.30	7.9	25	59	58	180	54	484	109	6.6	2.3	2.3
23	.30	5.5	24	49	56	192	52	463	99	6.3	2.5	2.3
24	.30	4.1	22	42	54	177	51	432	91	6.0	2.6	2.4
25	.30	3.4	21	39	53	157	49	386	86	5.7	4.2	2.3
26	.40	3.3	18	41	50	141	49	345	80	5.4	5.0	2.2
27	.40	3.2	18	73	49	127	52	306	72	5.2	3.1	2.2
28	.40	29	18	90	49	154	49	277	65	5.0	2.8	2.2
29	.40	43	18	265	---	143	45	244	59	4.9	2.6	2.5
30	.40	21	16	271	---	126	45	217	54	4.7	2.6	2.5
31	.40	---	15	245	---	118	---	197	---	4.5	2.5	---
TOTAL	9.90	180.90	1803	1486	2329	3996	2010	7758	3927	457.4	97.7	72.9
MEAN	.32	6.03	58.2	47.9	83.2	129	67.0	250	131	14.8	3.15	2.43
MAX	.40	43	328	271	179	456	106	484	179	48	5.0	3.1
MIN	.30	.30	15	11	49	44	45	46	54	4.5	2.3	2.2
AC-FT	20	359	3580	2950	4620	7930	3990	15390	7790	907	194	145

CAL YR 1966 TOTAL 9182.00 MEAN 25.2 MAX 328 MIN .30 AC-FT 18210
WTR YR 1967 TOTAL 24127.80 MEAN 66.1 MAX 484 MIN .30 AC-FT 47860

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	1.7	3.1	4.4	11	85	109	48	9.8	2.2	1.7	.57
2	3.4	1.7	3.1	4.2	11	77	98	45	8.0	2.2	1.5	.53
3	8.0	1.7	3.0	4.5	12	72	90	45	8.0	2.2	1.3	.50
4	3.9	1.7	3.4	4.3	13	69	85	44	8.3	2.2	1.2	.50
5	3.0	1.7	8.3	4.3	14	68	83	42	8.3	2.1	1.1	.50
6	3.0	1.7	5.0	4.6	14	65	77	38	8.3	2.0	.95	.47
7	2.4	1.7	4.9	4.3	14	61	75	34	8.0	2.0	.80	.47
8	2.0	1.7	4.3	4.0	14	60	74	31	7.8	1.9	.76	.44
9	2.0	1.7	4.1	4.2	17	56	75	27	7.5	1.9	.72	.44
10	2.0	1.7	4.0	4.5	18	53	78	25	7.3	1.8	.68	.41
11	2.0	1.7	3.7	4.6	18	50	83	24	7.2	1.8	.64	.44
12	2.0	1.7	3.3	4.5	18	48	83	25	6.5	1.7	.64	.44
13	1.9	2.7	2.4	4.1	17	48	80	27	7.3	1.7	.64	.44
14	1.9	2.5	2.7	3.1	16	46	77	24	6.1	1.7	.64	.44
15	1.9	2.2	3.2	36	15	44	75	21	4.3	1.7	.72	.50
16	1.9	1.8	3.6	46	16	45	71	20	3.9	1.7	.72	.47
17	1.9	1.8	3.2	20	49	45	65	19	3.9	1.7	.72	.44
18	1.8	4.7	3.3	15	60	40	58	19	3.6	1.6	.72	.41
19	1.7	5.4	3.7	13	63	38	55	19	3.6	1.6	1.3	.44
20	1.7	3.5	3.6	11	239	38	52	18	3.2	1.5	1.8	.44
21	1.7	2.6	3.5	10	224	41	50	18	3.2	1.4	1.5	.44
22	1.7	2.3	3.5	13	182	44	46	17	3.2	1.4	1.5	.47
23	1.7	2.3	3.8	14	193	45	44	17	2.9	1.4	1.4	.47
24	1.7	2.3	4.0	14	162	49	44	14	2.9	1.3	1.3	.44
25	1.7	2.3	4.3	13	132	55	43	14	2.9	1.2	1.2	.47
26	1.7	2.3	4.5	13	118	58	44	13	2.7	1.2	1.1	.50
27	1.7	2.5	5.1	12	109	58	45	13	2.4	1.1	.95	.47
28	1.7	2.5	5.4	11	100	64	45	13	2.4	1.1	.85	.50
29	1.7	2.5	5.1	10	91	75	46	12	2.4	.95	.80	.47
30	1.7	2.5	4.6	9.1	---	88	48	12	2.4	.90	.72	.47
31	1.7	---	4.5	8.6	---	93	---	14	---	.95	.60	---
TOTAL	69.3	69.1	124.2	328.3	1960	1778	1998	752	158.3	50.10	31.17	13.99
MEAN	2.24	2.30	4.01	10.6	67.6	57.4	66.6	24.3	5.28	1.62	1.01	.47
MAX	8.0	5.4	8.3	46	239	93	109	48	9.8	2.2	1.8	.57
MIN	1.7	1.7	2.4	3.1	11	38	43	12	2.4	.90	.60	.41
AC-FT	137	137	246	651	3890	3530	3960	1490	314	99	62	28

CAL YR 1967 TOTAL 22396.60 MEAN 61.4 MAX 484 MIN 1.7 AC-FT 44420
WTR YR 1968 TOTAL 7332.46 MEAN 20.0 MAX 239 MIN .41 AC-FT 14540

NOTE.--NO GAGE-HEIGHT RECORD MAY 8 TO JUNE 26.

11440000 ALDER CREEK NEAR WHITE HALL, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.40	1.6	4.4	11	132	35	232	237	111	11	2.3	1.4
2	.40	1.6	3.5	11	115	33	218	226	100	9.7	2.3	1.3
3	.37	41	3.4	11	104	33	189	210	93	8.9	2.3	1.3
4	.37	15	4.3	11	95	31	184	192	87	8.2	2.1	1.3
5	.37	9.2	4.7	13	90	31	223	204	81	7.5	2.1	1.2
6	.37	11	5.0	14	84	30	192	237	72	7.5	2.1	1.2
7	.40	5.2	5.0	17	75	29	162	270	64	6.9	2.1	1.4
8	.37	3.7	5.2	18	69	28	151	305	57	6.9	2.1	1.9
9	.40	3.6	6.0	17	66	27	145	332	53	6.3	1.9	1.8
10	.40	3.0	9.4	11	61	26	147	325	45	5.8	1.9	1.4
11	.42	2.8	12	17	62	26	174	322	46	5.8	2.1	1.2
12	.69	11	12	23	66	26	204	309	43	5.3	1.9	1.2
13	1.4	11	11	116	58	24	215	292	38	4.9	1.9	1.2
14	4.1	11	11	151	58	24	204	267	50	4.9	1.9	1.2
15	3.3	8.0	12	97	55	26	182	237	46	4.4	1.8	1.1
16	1.3	6.1	10	69	57	29	182	232	46	4.4	1.8	1.1
17	1.2	6.0	10	53	51	33	197	240	40	4.1	1.8	1.1
18	1.0	7.2	9.1	69	50	39	223	235	38	4.1	1.8	1.1
19	.92	6.5	9.1	513	47	44	226	215	34	3.7	1.8	1.1
20	.88	6.0	9.7	776	46	46	243	197	30	3.4	1.8	1.2
21	.54	10	9.2	862	44	46	280	184	27	3.4	1.8	1.2
22	.22	7.9	10	470	41	47	305	184	24	3.4	1.6	1.2
23	.20	7.0	11	305	44	57	305	184	22	3.1	1.6	1.2
24	.20	7.2	14	261	44	64	249	177	20	3.1	1.6	1.1
25	.19	7.1	19	531	47	72	212	162	19	2.8	1.6	1.1
26	.18	6.5	16	655	39	84	194	151	17	2.8	1.6	1.0
27	.18	6.0	14	410	37	100	189	143	15	2.8	1.4	.96
28	.17	5.8	13	299	36	122	204	130	14	2.8	1.4	.96
29	1.6	5.6	11	223	---	151	226	122	13	2.6	1.4	.92
30	1.6	5.3	11	182	---	192	235	120	11	2.6	1.4	.92
31	1.6	---	10	149	---	226	---	116	---	2.3	1.4	---
TOTAL	25.74	238.9	295.0	6365	1773	1781	6292	6757	1356	155.4	56.6	36.26
MEAN	.83	7.96	9.52	205	63.3	57.5	210	218	45.2	5.01	1.83	1.21
MAX	4.1	41	19	862	132	226	305	332	111	11	2.3	1.9
MIN	.17	1.6	3.4	11	36	24	145	116	11	2.3	1.4	.92
AC-FT	51	474	585	12620	3520	3530	12480	13400	2690	308	112	72

CAL YR 1968 TOTAL 7629.34 MEAN 20.8 MAX 239 MIN .17 AC-FT 15130
WTR YR 1969 TOTAL 25131.90 MEAN 68.9 MAX 862 MIN .17 AC-FT 49850

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.86	1.5	1.5	30	124	71	47	49	20	4.3	1.3	.48
2	.98	1.5	1.4	26	110	67	45	53	20	3.9	1.3	.46
3	.85	1.5	1.4	23	99	61	44	59	18	3.3	1.3	.46
4	.84	1.5	1.4	21	92	58	43	63	15	3.3	1.2	.43
5	.84	3.6	1.4	21	85	57	43	69	14	3.0	1.2	.46
6	.72	11	1.4	20	79	57	44	73	13	3.0	1.1	.46
7	.94	7.1	1.4	20	74	60	44	69	12	2.7	1.1	.48
8	.94	6.1	1.4	19	70	66	44	66	14	2.7	1.1	.51
9	.91	5.1	2.6	48	66	65	44	65	22	2.3	1.1	.46
10	.84	4.3	3.2	108	63	63	47	63	15	2.3	1.1	.36
11	.83	3.9	3.7	83	63	58	45	60	14	2.3	1.0	.38
12	.82	3.9	3.6	91	74	58	45	56	13	2.3	.94	.36
13	.94	3.5	3.8	123	76	63	45	53	12	2.1	.86	.43
14	1.0	3.5	4.1	309	71	73	45	53	13	2.1	.82	.46
15	1.1	3.5	3.5	513	71	79	41	55	11	1.7	.79	.38
16	10	4.8	2.7	1010	76	79	40	59	10	1.7	.75	.38
17	5.2	4.3	1.5	732	85	79	38	62	9.4	1.7	.79	.41
18	4.3	3.5	2.7	531	76	73	40	62	8.7	1.5	.79	.41
19	3.5	3.5	11	409	71	67	43	56	6.7	1.5	.75	.43
20	3.5	3.5	78	608	66	64	40	51	6.1	1.5	.72	.41
21	2.7	3.5	138	1360	63	60	38	44	5.6	1.4	.65	.43
22	2.1	3.5	72	818	60	59	37	41	5.2	1.4	.62	.41
23	1.8	3.0	56	518	58	59	36	38	5.2	1.4	.59	.41
24	1.8	3.0	214	480	57	56	36	35	5.2	1.4	.59	.38
25	1.8	2.7	260	322	57	62	37	32	4.7	1.4	.59	.34
26	1.5	2.7	136	260	57	62	42	31	5.2	1.4	.59	.36
27	1.5	2.7	90	351	57	59	41	29	7.3	1.3	.59	.38
28	1.5	2.7	66	254	60	57	36	28	5.2	1.3	.59	.41
29	1.5	2.1	52	205	---	56	40	25	5.2	1.3	.56	.41
30	1.5	1.5	44	171	---	52	44	24	4.7	1.3	.51	.38
31	1.5	---	36	143	---	48	---	22	---	1.3	.48	---
TOTAL	59.11	108.5	1295.7	9627	2060	1948	1254	1545	320.4	64.1	26.37	12.52
MEAN	1.91	3.62	41.8	311	73.6	62.8	41.8	49.8	10.7	2.07	.85	.42
MAX	10	11	260	1360	124	79	47	73	22	4.3	1.3	.51
MIN	.72	1.5	1.4	19	57	48	36	22	4.7	1.3	.48	.34
AC-FT	117	215	2570	19100	4090	3860	2490	3060	636	127	52	25

CAL YR 1969 TOTAL 26035.61 MEAN 71.3 MAX 862 MIN .72 AC-FT 51640
WTR YR 1970 TOTAL 18320.70 MEAN 50.2 MAX 1360 MIN .34 AC-FT 36340

NOTE.--NO GAGE-HEIGHT RECORD JAN. 13-23.

11440850 PICKET PEN CREEK NEAR KYBURZ, CALIF.

LOCATION.--Lat 38°52'03", long 120°22'22", in SE¼SE¼ sec.23, T.12 N., R.14 E., El Dorado County, Eldorado National Forest, on left bank 1 mile upstream from mouth and 7.7 miles northwest of Kyburz.

DRAINAGE AREA.--0.49 sq mi.

PERIOD OF RECORD.--January 1964 to September 1968. Annual maximums, water years 1969-70.

GAGE.--Crest-stage gage. Altitude of gage is 5,000 ft (from topographic map). Prior to October 1968, water-stage recorder at present site and datum.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Apr. 10, 1966	5.0	8.06	Sept.17, 1966	0
1967	May 21, 1967	15	8.77	Oct. 1 to Nov. 14, 1966	.01
1968	Feb. 20, 1968	11	8.52	Long periods	.03
1969	Jan. 20, 1969	74	11.49	-	-
1970	Jan. 21, 1970	78	11.65	-	-

Period of record: Maximum discharge, 111 cfs Dec. 23, 1964 (gage height, 13.47 ft), from rating curve extended above 37 cfs on basis of computations of flow through culvert at gage heights 10.52, 11.89, 13.09, and 13.47 ft. No flow Sept. 17, 1966.

Flood of Jan. 31, 1963, reached a stage of 10.52 ft, from floodmarks; discharge, 53 cfs from computation of flow through culvert.

REMARKS.--Records good except those below 0.10 cfs, which are fair. No storage or diversion above station. Rainfall data collected at this site are available in files of the district office.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.02	.06	.03	.03	.10	2.4	.38	.10	.06	.02	.02
2	.04	.02	.06	.03	.03	.10	2.4	.38	.10	.04	.02	.02
3	.04	.02	.06	.03	.03	.10	2.5	.33	.10	.04	.02	.02
4	.04	.02	.06	.03	.04	.10	2.5	.38	.10	.04	.02	.02
5	.03	.02	.06	.04	.04	.10	2.5	.38	.06	.04	.02	.02
6	.03	.02	.06	.06	.06	.10	2.4	.38	.06	.04	.02	.02
7	.03	.02	.06	.06	.06	.14	2.4	.33	.10	.04	.02	.02
8	.03	.03	.06	.04	.06	.18	2.3	.33	.10	.04	.02	.02
9	.03	.03	.06	.04	.06	.28	2.4	.38	.10	.04	.02	.02
10	.03	.02	.06	.04	.06	.44	4.0	.50	.10	.04	.02	.02
11	.03	.02	.06	.04	.06	.50	3.5	.44	.10	.04	.02	.02
12	.02	.03	.04	.03	.06	.50	3.1	.38	.06	.04	.02	.02
13	.02	.03	.04	.03	.06	.58	2.8	.33	.06	.04	.02	.01
14	.02	.14	.04	.03	.06	.68	2.4	.28	.04	.06	.02	.01
15	.02	.04	.04	.03	.06	.68	2.3	.23	.04	.06	.02	.01
16	.02	.06	.04	.03	.06	.68	2.3	.18	.04	.06	.02	.01
17	.02	.10	.04	.03	.06	.58	2.0	.18	.04	.06	.02	0
18	.02	.33	.04	.03	.06	.58	1.8	.18	.04	.04	.02	.01
19	.02	.10	.04	.03	.06	.68	1.6	.18	.04	.03	.02	.01
20	.02	.04	.04	.03	.06	.68	1.2	.14	.04	.04	.02	.01
21	.02	.03	.04	.03	.06	.58	1.1	.14	.04	.04	.01	.01
22	.02	.03	.04	.03	.06	.68	.98	.14	.04	.04	.01	.01
23	.03	.04	.04	.03	.10	.88	.98	.14	.04	.04	.02	.01
24	.03	.10	.04	.03	.10	1.1	.88	.14	.04	.03	.02	.01
25	.03	.04	.04	.03	.10	1.2	.78	.14	.04	.03	.02	.01
26	.03	.04	.04	.03	.10	1.2	.78	.10	.04	.02	.02	.01
27	.03	.04	.04	.03	.10	1.3	.78	.10	.06	.02	.02	.01
28	.03	.04	.04	.03	.10	1.4	.58	.10	.06	.02	.02	.01
29	.03	.04	.04	.03	---	1.7	.50	.10	.06	.02	.02	.01
30	.03	.06	.03	.03	---	2.0	.44	.10	.06	.03	.02	.01
31	.03	---	.03	.03	---	2.3	---	.10	---	.03	.02	---
TOTAL	.86	1.57	1.44	1.04	1.79	22.12	56.60	7.59	1.90	1.21	.60	.41
MEAN	.028	.052	.047	.034	.064	.71	1.89	.24	.063	.039	.019	.014
MAX	.04	.33	.06	.06	.10	2.3	4.0	.50	.10	.06	.02	.02
MIN	.02	.02	.03	.03	.03	.10	.44	.10	.04	.02	.01	0
AC-FT	1.7	3.1	2.9	2.1	3.6	44	112	15	3.8	2.4	1.2	.8

CAL YR 1965 TOTAL 391.87 MEAN 1.07 MAX 9.8 MIN 0 AC-FT 777
WTR YR 1966 TOTAL 97.13 MEAN .27 MAX 4.0 MIN 0 AC-FT 193

11440850 PICKET PEN CREEK NEAR KYBURZ, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.01	.10	.14	3.0	1.1	3.0	1.3	5.0	.44	.08	.06
2	.01	.01	.23	.14	2.4	1.1	2.6	1.4	4.6	.38	.08	.06
3	.01	.01	.18	.14	2.0	1.1	2.6	1.9	4.2	.38	.08	.04
4	.01	.01	.10	.14	1.8	1.1	2.4	2.1	4.1	.33	.08	.04
5	.01	.01	.47	.14	1.6	.98	2.2	2.2	5.4	.33	.08	.04
6	.01	.01	1.8	.11	1.5	.98	1.8	2.6	4.8	.29	.08	.04
7	.01	.01	.98	.11	1.4	.98	2.2	3.3	4.2	.29	.06	.04
8	.01	.01	.38	.11	1.4	1.1	2.2	4.2	3.8	.25	.06	.04
9	.01	.01	.29	.11	1.3	1.1	2.2	5.2	3.6	.25	.06	.04
10	.01	.01	.25	.11	1.3	1.1	2.1	5.5	3.3	.25	.08	.04
11	.01	.01	.25	.11	1.3	.82	2.0	4.7	2.8	.21	.08	.04
12	.01	.01	.25	.11	1.4	.90	2.0	4.3	2.7	.17	.06	.04
13	.01	.01	.21	.11	1.6	1.1	2.0	4.4	2.6	.14	.06	.04
14	.01	.01	.21	.11	1.5	1.2	2.1	5.2	2.2	.17	.06	.04
15	.01	.03	.21	.11	1.3	1.1	2.0	6.5	1.9	.17	.06	.04
16	.01	.14	.21	.11	1.2	7.9	1.8	7.5	1.6	.17	.06	.03
17	.01	.04	.21	.11	1.2	9.5	1.6	8.2	1.4	.14	.06	.04
18	.01	.03	.21	.11	1.2	6.3	1.8	9.0	1.4	.11	.06	.06
19	.01	.03	.17	.11	1.2	5.4	1.6	9.8	1.3	.11	.06	.04
20	.01	.03	.17	.21	1.1	4.8	1.8	11	1.1	.11	.06	.04
21	.01	.03	.17	2.4	1.1	4.7	1.5	12	.98	.11	.06	.04
22	.01	.03	.17	1.3	1.1	4.6	1.5	12	.90	.11	.06	.03
23	.01	.03	.17	.98	1.1	5.4	1.4	12	.82	.11	.06	.03
24	.01	.03	.17	.75	1.1	4.8	1.4	10	.75	.08	.06	.03
25	.01	.03	.14	.68	1.1	4.3	1.3	9.4	.68	.08	.11	.03
26	.01	.03	.14	.75	.98	4.1	1.3	8.2	.62	.08	.11	.03
27	.01	.03	.14	1.6	.98	3.7	1.2	7.5	.56	.08	.08	.03
28	.01	.10	.14	1.6	1.1	4.3	1.2	6.8	.50	.08	.08	.04
29	.01	.06	.14	4.2	---	4.1	1.1	6.1	.50	.08	.08	.04
30	.01	.04	.14	5.0	---	3.4	1.3	5.5	.44	.08	.08	.04
31	.01	---	.14	4.1	---	3.1	---	5.5	---	.08	.06	---
TOTAL	.31	.85	8.54	25.81	39.26	96.16	55.2	195.3	68.75	5.66	2.20	1.19
MEAN	.010	.028	.28	.83	1.40	3.10	1.84	6.30	2.29	.18	.071	.040
MAX	.01	.14	1.8	5.0	3.0	9.5	3.0	12	5.4	.44	.11	.06
MIN	.01	.01	.10	.11	.98	.82	1.1	1.3	.44	.08	.06	.03
AC-FT	.6	1.7	17	51	78	191	109	387	136	11	4.4	2.4

CAL YR 1966 TOTAL 100.80 MEAN .28 MAX 4.0 MIN 0 AC-FT 200
WTR YR 1967 TOTAL 499.23 MEAN 1.37 MAX 12 MIN .01 AC-FT 990

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.06	.11	.11	.11	3.8	4.4	.33	.21	.08	.04	.04
2	.14	.06	.08	.11	.08	3.6	3.7	.33	.21	.11	.03	.04
3	.08	.06	.08	.11	.11	3.4	3.3	.29	.21	.11	.04	.04
4	.06	.06	.11	.11	.11	3.4	3.1	.29	.21	.11	.04	.04
5	.06	.06	.17	.11	.08	3.3	3.1	.29	.21	.08	.04	.04
6	.06	.04	.11	.11	.11	3.0	2.8	.29	.21	.08	.04	.03
7	.06	.04	.11	.11	.21	2.7	2.6	.29	.21	.08	.04	.03
8	.06	.04	.11	.11	.21	2.6	2.5	.29	.21	.08	.04	.03
9	.06	.04	.11	.11	.25	2.2	2.4	.29	.17	.06	.04	.03
10	.06	.04	.11	.11	.29	2.0	2.1	.29	.17	.04	.04	.03
11	.06	.04	.11	.11	.33	1.9	2.0	.29	.17	.04	.04	.03
12	.06	.04	.08	.11	.33	1.8	1.8	.29	.17	.04	.04	.03
13	.04	.04	.08	.08	.33	1.8	1.4	.38	.17	.04	.04	.03
14	.04	.06	.11	.11	.33	1.8	1.3	.56	.17	.04	.04	.03
15	.04	.04	.08	.33	.33	1.8	1.3	.56	.17	.04	.04	.03
16	.04	.04	.08	.44	.38	1.5	1.3	.44	.17	.04	.04	.03
17	.04	.04	.08	.50	2.0	1.5	1.2	.33	.14	.06	.04	.03
18	.04	.06	.08	.29	2.2	1.4	1.1	.33	.14	.06	.04	.03
19	.04	.11	.08	.25	2.3	1.2	.98	.33	.14	.04	.08	.03
20	.04	.08	.08	.25	7.7	1.2	.98	.33	.14	.06	.08	.03
21	.04	.08	.08	.25	7.8	1.2	.90	.33	.14	.04	.06	.03
22	.04	.08	.08	.25	6.3	1.3	.90	.33	.14	.06	.06	.03
23	.04	.08	.08	.25	7.8	1.5	.90	.33	.11	.06	.06	.03
24	.04	.11	.11	.25	5.7	1.6	.82	.33	.11	.06	.04	.03
25	.04	.11	.14	.21	5.1	2.0	.75	.33	.11	.06	.04	.03
26	.04	.11	.14	.21	4.8	2.1	.68	.25	.11	.06	.04	.03
27	.04	.11	.13	.21	4.6	2.4	.68	.21	.11	.06	.04	.03
28	.04	.11	.11	.17	4.4	2.7	.56	.21	.11	.06	.04	.03
29	.06	.11	.11	.17	4.1	3.3	.50	.25	.11	.06	.04	.03
30	.06	.11	.11	.33	---	3.7	.38	.25	.11	.04	.04	.03
31	.06	---	.11	.17	---	3.8	---	.25	---	.04	.04	---
TOTAL	1.62	2.06	3.16	6.04	68.39	71.5	50.43	9.89	4.76	1.89	1.37	.95
MEAN	.052	.069	.10	.19	2.36	2.31	1.68	.32	.16	.061	.044	.032
MAX	.14	.11	.17	.50	7.8	3.8	4.4	.56	.21	.11	.08	.04
MIN	.04	.04	.08	.08	.08	1.2	.38	.21	.11	.04	.03	.03
AC-FT	3.2	4.1	6.3	12	136	142	100	20	9.4	3.7	2.7	1.9

CAL YR 1967 TOTAL 496.54 MEAN 1.36 MAX 12 MIN 0 AC-FT 985
WTR YR 1968 TOTAL 222.06 MEAN .61 MAX 7.8 MIN .03 AC-FT 440

11441001 UNION VALLEY RESERVOIR NEAR RIVERTON, CALIF.

LOCATION (REVISED).--Lat 38°51'49", long 120°26'15", in SW¼SW¼ sec.20, T.12 N., R.14 E., El Dorado County, Eldorado National Forest, in valve control house near left bank at Union Valley Dam on Silver Creek, 0.7 mile upstream from Little Silver Creek and 6.6 miles north of Riverton.

DRAINAGE AREA.--83.6 sq mi.

PERIOD OF RECORD.--October 1962 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Sacramento Municipal Utility District).

EXTREMES.--Maximums and minimums (contents in acre-feet, elevation in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum		
Wtr yr	Date	Contents	Elevation	Date	Contents	Elevation
1966	May 17, 1966	188,100	4,836.4	Sept.30, 1966	95,600	4,785.4
1967	July 11, 1967	268,600	4,869.1	Jan. 27, 1967	90,900	4,782.1
1968	May 19-21, 1968	233,300	4,855.9	Feb. 2, 1968	128,500	4,806.4
1969	July 8, 1969	268,800	4,869.2	Mar. 25, 26, 1969	99,100	4,787.9
1970	June 22, 23, 1970	269,900	4,869.6	Dec. 19, 1969	176,000	4,830.9

Period of record: Maximum contents, 270,400 acre-ft June 10, 1963 (elevation, 4,869.77 ft); minimum since reservoir first filled, 90,900 acre-ft Jan. 27, 1967 (elevation, 4,782.1 ft).

REMARKS.--Reservoir is formed by an earthfill dam completed in December 1962. Storage began in May 1962. Usable capacity, 264,000 acre-ft between elevations 4,645.0 (minimum operating level) and 4,870.0 ft (top of radial spillway gates) above mean sea level. Dead storage, 7,000 acre-ft. Reservoir receives water from South Fork Rubicon River via Robbs Peak powerplant (see station 11429800). Water is used for power development in South Fork American River basin. Records, including extremes, represent total contents. See schematic diagram of Middle Fork American and Rubicon River basins and South Fork American River basin elsewhere in this report.

COOPERATION.--One hundred and twenty-one staff-gage readings furnished by Sacramento Municipal Utility District in connection with a Federal Power Commission project.

Capacity table, water years 1966-70 (elevation, in feet, and contents, in acre-feet)

4,780	88,000	4,820	153,000	4,870	271,000
4,800	117,000	4,840	196,000		

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	154500	137200	159900	135400	114800	98600	126200	175800	179700	158900	138400	113400
2	153400	137900	158900	134600	114300	98200	129100	177100	178800	157400	137700	112400
3	152100	138600	158000	133400	113700	97800	131600	178000	178000	157400	137000	111200
4	150800	139300	157200	132300	112800	97500	134100	179300	177100	157400	136300	111200
5	149600	140000	156400	131600	112000	97200	137000	180400	177100	155900	135700	111200
6	148300	140900	155500	130900	112000	97200	139700	181000	176600	155100	134300	109800
7	147100	141700	154700	130100	112000	97200	142200	181900	176000	154300	134300	108600
8	146200	142400	153800	129400	111300	97100	144700	183500	174900	153600	133900	107600
9	144900	143100	152800	128900	110800	97200	147100	184100	174200	152300	133200	106400
10	143600	143800	152100	128000	110100	97800	149800	185000	173200	152300	132500	105000
11	142400	144700	151400	126500	109400	98400	151700	185900	172500	151400	131600	105000
12	141100	145400	150700	125300	108600	98500	153400	186100	172500	150700	130900	103800
13	140400	146500	149900	123300	108400	99500	154900	186300	171500	150100	129800	102400
14	139900	147800	149000	122000	107700	100600	156600	186300	171100	149600	129800	100900
15	139100	148900	148100	120600	107000	101600	158700	187200	170200	149000	128500	99500
16	138200	149900	147200	119000	106200	102300	160800	187600	169600	148000	127600	98400
17	137200	151000	146500	117900	105400	103000	163100	187400	169000	148000	126900	97700
18	136300	153400	145800	117500	104700	104200	164100	187400	167500	146900	126200	97700
19	135200	154700	144900	116800	103800	105800	164800	187200	167500	146300	125500	97000
20	134100	155700	144000	116200	103800	107000	165200	187000	166200	145800	124000	97000
21	132800	156400	143100	116000	103200	108200	165400	186300	165400	144900	124000	97000
22	132800	157400	142200	116000	102300	108600	166000	186500	164600	144200	122800	97100
23	132800	158500	141500	116000	101400	109200	167300	185900	163900	142900	122000	97100
24	132800	159900	140800	115800	100600	110000	169000	184800	163100	142900	121500	97100
25	132800	160800	140200	115500	99900	111000	170200	183700	162200	141800	121000	97100
26	133000	161600	139300	115200	99200	112200	171500	182800	162700	141300	120100	97000
27	133700	162400	138400	114900	99200	114200	172300	181700	162200	140800	118600	96500
28	134300	162400	137900	114800	99100	115800	173000	180800	161400	140400	118600	96100
29	135000	161600	137500	114800	---	117900	173400	180800	160600	139900	117200	95800
30	135700	160600	136600	114900	---	120800	174000	180800	159700	139100	116000	95600
31	136600	---	136100	115000	---	123300	---	180400	---	139100	114600	---
MAX	154500	162400	159900	135400	114800	123300	174000	187600	179700	158900	138400	113400
MIN	132800	137200	136100	114800	99100	97100	126200	175800	159700	139100	114600	95600
(†)	4810.9	4823.6	4810.6	4798.7	4787.9	4803.5	4830.0	4832.9	4823.2	4812.3	4798.4	4785.4
(‡)	-19300	+24000	-24500	-21100	-15900	+24200	+50700	+6400	-20700	-20600	-24500	-19000

CAL YR 1965 MAX MIN ‡ -88900
WTR YR 1966 MAX 187600 MIN 95600 ‡ -60300

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11441001 UNION VALLEY RESERVOIR NEAR RIVERTON, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95600	105800	111000	108400	100000	105000	140600	142600	188300	263200	261300	231300
2	95600	105800	111600	107600	99900	106000	140900	141800	188500	264000	260200	231500
3	95800	105800	112200	106800	99900	107100	141300	141100	189400	264800	258600	230700
4	96000	105800	113200	106200	100600	108200	141500	140400	190500	265300	257000	230000
5	96000	105800	115000	106600	101200	109200	142000	139700	192700	266100	255600	228900
6	96000	105800	117700	107600	101600	110200	142700	138800	194500	267000	254000	228100
7	96000	105800	118600	108200	101900	111200	143300	137900	196700	267200	252600	227400
8	96500	105800	118800	107700	102200	112000	144000	138100	198600	267500	251600	226300
9	97400	105800	118800	106800	102300	113000	144700	138800	201100	267800	250800	225500
10	97900	105800	118800	105200	102400	113800	145400	139300	204100	268000	249900	224500
11	98600	105800	118800	103600	102300	114800	146000	138600	207200	268600	249100	223700
12	99300	105800	118800	102200	103000	115600	146200	137900	210100	268000	248300	222700
13	100000	105800	118400	100700	103400	116400	146300	137500	212900	267200	247500	221900
14	100700	105800	118300	99500	103600	117000	146500	137200	216000	266400	246700	220900
15	101400	106000	117500	98200	103600	116700	147100	137700	219600	265600	245900	220100
16	102200	106400	116700	96800	103600	120600	147600	139900	223700	264800	245100	219300
17	103000	106500	116200	95300	103000	127300	148000	142700	228400	264000	244300	218500
18	103800	106500	116400	94300	102900	130300	148100	145400	232800	263700	243500	217800
19	105200	106800	116000	93200	103500	131800	148000	148900	236700	263400	242700	216900
20	105800	107200	115600	92500	103600	132500	147600	152500	240100	263200	241700	216200
21	105800	107600	115200	93200	103500	133200	147400	156600	243000	263400	240900	215600
22	105800	107700	114800	93500	103600	133700	147200	160800	245900	263700	240100	215400
23	105800	107700	114300	92200	104100	134500	146900	165200	248600	264200	239800	215400
24	105800	107700	113800	92200	103600	135500	146500	170200	251000	264200	238800	215100
25	105800	107700	113200	92100	103600	136800	146200	175500	253400	263700	238000	215400
26	105800	107800	112800	91400	104100	137700	145400	178000	255100	263400	237200	216000
27	105800	107800	112000	90900	104100	138400	145100	180600	256700	263200	236500	216500
28	105800	108800	111300	91600	104100	139100	144400	183500	258300	262900	235700	216900
29	105800	108900	110600	94700	---	139700	143800	185900	260700	262400	234600	217100
30	105800	109200	109800	97500	---	140000	143300	187400	262400	262100	233900	217300
31	105800	---	109200	99200	---	140400	---	188500	---	261800	233100	---
MAX	105800	109200	118800	108400	104100	140400	148100	188500	262400	268600	261300	231500
MIN	95600	105800	109200	90900	99900	105000	140600	137200	188300	261800	233100	215100
(†)	4792.5	4795.8	4794.8	4788.0	4791.4	4813.0	4814.6	4836.6	4866.8	4866.6	4855.8	4849.7
(‡)	+10200	+3400	0	-10000	+4900	+36300	+2900	+45200	+73900	-600	-28700	-15800

CAL YR 1966 MAX 187600 MIN 95600 ‡ -26900
WTR YR 1967 MAX 268600 MIN 90900 ‡ +121700

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	217800	198000	153200	140800	129600	165000	193100	225500	232300	227100	207400	189400
2	218000	196400	152300	140400	128500	166200	194500	226800	232300	226300	207000	189600
3	218500	194900	152300	139900	129100	167300	195300	228400	232300	225300	206100	190300
4	218500	193400	151700	140200	129600	168300	196400	229700	232300	225500	206300	190700
5	218500	192000	150800	140900	130000	169600	197500	231000	232300	225000	205500	191200
6	218500	190300	149800	141700	130000	170400	198400	231300	232300	224500	204600	191800
7	218800	188700	148900	142600	130100	171300	199300	231500	232300	224500	203700	192300
8	219000	187200	147600	141800	130300	172300	200200	231500	232600	223500	202800	192900
9	219000	185400	146300	141300	130900	173000	201500	231800	233100	222700	201900	193400
10	219000	183900	146500	141100	131000	173800	203000	231800	232800	221900	201300	193800
11	219000	182400	144900	140800	131400	174700	204800	232000	232600	221100	201500	194500
12	219000	180600	143500	140600	131800	175300	206100	232800	232300	219800	200800	194700
13	219000	179100	142000	139700	132100	176200	207400	233100	232300	218800	200000	194700
14	218000	177500	140900	140000	132500	176900	208800	232800	232000	218800	199100	194700
15	216900	176000	140400	140400	132700	177500	210100	232800	232300	217800	198400	194700
16	215600	174700	140000	140400	133000	178400	211400	232600	232600	217100	197500	194200
17	214500	173400	141100	139700	134300	179100	212100	232600	232300	216500	196700	193100
18	212900	172100	141100	138600	135900	179500	212900	232600	232000	215800	196900	192300
19	211400	170800	140600	137700	137500	179900	213600	233300	232300	214900	196900	191200
20	209900	169600	140000	136800	142900	180600	214300	233300	231800	214300	196400	190100
21	208800	168100	139700	137200	146900	181000	215100	233300	231800	214300	195300	189000
22	208700	166600	139100	136600	149400	181700	215800	233100	231300	213600	194700	188700
23	207200	165200	138800	135700	153400	182400	216500	232800	231500	212700	193800	187400
24	206800	163700	139700	134600	156200	183000	217100	232300	231300	212100	192900	186300
25	206100	162000	140600	134100	158000	184100	218500	232300	231000	211400	193100	185000
26	205700	160400	140200	133400	159500	184800	219800	233100	230500	210700	192000	183900
27	205500	158900	139700	132800	161200	185400	221100	232800	229700	210100	191600	182800
28	204100	157200	139700	133000	162400	186500	222400	232600	228900	210100	190900	181700
29	202400	155900	139300	132100	163900	187900	224000	232300	228100	209400	190300	181300
30	200800	154500	139100	131600	---	189600	224800	232800	227900	209000	189600	180200
31	199300	---	139900	130500	---	191200	---	232600	---	208300	189000	---
MAX	219000	198000	153200	142600	163900	191200	224800	233300	233100	227100	207400	194700
MIN	199300	154500	138800	130500	128500	165000	193100	225500	227900	208300	189000	180200
(†)	4841.5	4820.7	4812.7	4807.5	4825.2	4837.8	4852.6	4855.6	4853.8	4845.6	4836.8	4832.8
(‡)	+18000	-44800	-14600	-9400	+33400	+27300	+33600	+7800	-4700	-19600	-19300	-8800

CAL YR 1967 MAX 268600 MIN 90900 ‡ +30700
WTR YR 1968 MAX 233300 MIN 128500 ‡ -37100

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11441001 UNION VALLEY RESERVOIR NEAR RIVERTON, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	179500	167300	155100	136800	168800	124700	105800	143500	223700	265300	260200	223700
2	178600	167500	154300	135900	167300	122900	107600	145100	226300	265600	258800	222400
3	177700	170000	153200	135000	165800	121000	108300	146200	229700	265900	259100	221400
4	176900	169800	152100	134300	163500	118800	109000	147100	232600	267200	257800	220300
5	176200	169200	151200	134600	162000	116800	110400	148900	235400	267500	256400	219000
6	176000	168300	150300	133900	160800	115500	110800	151600	238000	268600	255100	217600
7	175500	167500	149200	132800	159100	113800	111000	154700	240900	268600	253700	217300
8	175300	166400	149000	132300	157600	112400	111900	158000	244000	268800	252400	215800
9	174900	165600	148300	131400	155700	111000	112600	161400	246400	268600	251000	214300
10	174400	165800	147600	130500	154000	109500	113000	165000	247800	268300	251000	212900
11	174200	166000	148000	130100	152100	108200	113800	168300	248900	268000	249900	211400
12	174400	165800	147600	130500	150500	107200	115400	171300	249900	268000	248300	210100
13	174700	165000	146500	131600	148900	106200	117000	174000	251300	268300	246700	208800
14	174000	164300	145800	133000	147600	105300	118400	176400	252100	268000	245100	208300
15	173800	163500	146300	132700	146300	104200	119000	178000	253400	267800	243500	206600
16	173400	162700	145400	132500	145300	103500	119000	180400	254300	267500	241900	204800
17	173600	162700	144500	132100	143800	102800	120400	183500	257000	267000	241700	203300
18	173600	162400	143800	132800	142600	102000	122400	186800	258300	266700	240600	201500
19	173400	162200	143100	138200	140900	101400	123800	189400	259700	266700	239100	200000
20	173400	161400	142400	146000	139500	100900	125600	190900	260500	267200	237500	198200
21	172500	160600	141300	153000	137900	100700	128200	193400	260700	267000	235900	197800
22	172500	159700	140800	156600	136100	100000	130900	196400	261600	266400	234400	196000
23	172300	158900	140000	157800	134500	99800	133400	199300	262400	265900	232600	194200
24	171900	159300	139700	159100	133000	99300	134300	202200	262600	265300	232800	192500
25	171500	158500	140200	163500	131400	99100	135400	204600	263400	264500	231500	190300
26	170800	157600	139500	167700	129800	99100	136100	207000	263700	264200	230000	188300
27	170800	156600	138600	169600	128200	99300	136800	209400	263700	264800	228400	186300
28	170000	156800	137900	171300	126500	99900	138200	211400	264000	264000	226600	185900
29	169600	155900	138100	171900	---	100500	139700	213600	265300	263400	225000	184300
30	168800	155100	137300	171300	---	102000	141500	217300	265300	262600	223500	184600
31	168100	---	136800	170000	---	104000	---	220100	---	261600	223700	---
MAX	179500	170000	155100	171900	168800	124700	141500	220100	265300	268800	260200	223700
MIN	168100	155100	136800	130100	126500	99100	105800	143500	223700	261600	223500	184300
(†)	4827.2	4821.0	4811.0	4828.1	4805.3	4791.3	4813.6	4850.8	4867.9	4866.5	4852.2	4834.8
(‡)	-12800	-13000	-18300	+33200	+43500	-22500	+37500	+78600	+45200	-3700	-37900	-39100

CAL YR 1968 MAX 233300 MIN 128500 ‡ -3100
WTR YR 1969 MAX 268800 MIN 99100 ‡ +4400

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	184600	192500	191400	194200	228100	211800	233300	233900	267200	269400	258600	226600
2	184600	193100	190300	193400	227900	211800	234100	234400	267200	268800	258600	225300
3	184600	192700	189000	192700	227100	211800	234900	235900	267500	268000	258000	224000
4	184300	192300	187600	192300	226300	211800	235900	237000	267200	268300	257200	222400
5	184300	192500	187200	191600	225000	211800	237200	238300	267000	268600	256700	220600
6	184300	192900	186800	190900	224200	211800	238300	239600	266700	268000	255900	220300
7	184300	192500	187000	190300	223700	212300	239600	240600	267500	267800	254800	220300
8	184300	192500	186500	189600	222900	213600	240600	241100	267800	267500	254000	220100
9	184300	193400	186100	190700	221900	214000	241700	242400	269100	267000	254300	220100
10	184600	193100	185000	191600	220300	214700	241700	244000	269100	266700	253400	220100
11	184300	193800	183700	191200	219300	215400	241400	244800	268600	266100	252100	220100
12	184300	193600	182600	191200	219300	216000	242700	244800	268300	266400	251000	220100
13	184300	193100	181300	191600	219600	216900	242400	245100	268000	265900	250200	220100
14	184300	192900	181000	195800	219300	218800	241400	246200	267800	265300	249100	219800
15	185000	192700	179900	197500	219000	220900	240600	247800	267500	264800	247800	219600
16	186800	193600	178600	207200	219300	221900	239800	249400	267500	264200	247500	219600
17	187600	193400	177300	212900	219000	223200	239100	251800	267800	264000	246200	219600
18	188500	192900	176200	215600	218000	224000	238300	253700	268000	263400	244500	219300
19	189200	192500	176000	218000	217100	225000	239600	255100	268600	264000	243000	219300
20	190100	192300	180600	221900	216200	225500	239300	256200	268800	263400	241100	219300
21	190500	192000	185700	231800	215400	226300	238500	257500	269400	262900	239600	219300
22	191400	191600	187200	234900	214500	227600	237800	259100	269900	262600	238300	219300
23	192000	192300	188100	233600	213800	228900	237000	259900	269900	261800	238000	219300
24	192700	191800	191600	232600	212900	230000	235700	261300	269600	261300	236700	219300
25	193400	191400	195300	230500	212100	230700	234900	262600	269400	261000	235200	219000
26	194000	191200	196400	229700	211200	231500	236500	263700	269100	261300	233100	219000
27	193800	191800	196400	231000	210500	231500	235700	264800	269100	261000	232300	219000
28	193600	191400	197100	230500	209900	231500	234600	265600	269400	260500	231000	219000
29	193400	191200	196700	229700	---	232800	234100	265600	269400	260200	229400	219000
30	193400	192000	196000	228700	---	233100	233600	265900	269600	259700	229200	219000
31	193100	---	195100	228400	---	232800	---	267200	---	259100	227600	---
MAX	194000	193800	197100	234900	228100	233100	242700	267200	269900	269400	258600	226600
MIN	184300	191200	176000	189600	209900	211800	233300	233900	266700	259100	227600	219000
(†)	4838.7	4838.2	4839.6	4854.0	4846.3	4855.7	4856.0	4868.6	4869.5	4865.6	4853.7	4850.4
(‡)	+8500	-1100	+3100	+33300	-18500	+22900	+800	+33600	+2400	-10500	-31500	-8600

CAL YR 1969 MAX 368800 MIN 99100 ‡ +58300
WTR YR 1970 MAX 269900 MIN 17600 ‡ +34400

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11441100 ICE HOUSE RESERVOIR NEAR KYBURZ, CALIF.

LOCATION.--Lat 38°49'26", long 120°21'34", in SE¼SW¼ sec.1, T.11 N., R.14 E., El Dorado County, Eldorado National Forest, on left bank at Ice House Dam on South Fork Silver Creek, 0.5 mile upstream from Peavine Creek and 4.8 miles northwest of Kyburz.

DRAINAGE AREA.--27.2 sq mi.

PERIOD OF RECORD.--October 1959 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Sacramento Municipal Utility District).

EXTREMES.--Maximums and minimums (contents in acre-feet, elevation in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum		
Wtr yr	Date	Contents	Elevation	Date	Contents	Elevation
1966	June 25 to July 8, 1966	35,000	5,433.5	Nov. 28, 1965	4,440	5,362.5
1967	June 29, 30, 1967	46,000	5,450.1	Mar. 16, 1967	7,660	5,374.2
1968	June 9, 10, 1968	38,900	5,439.5	Sept.29, 30, 1968	12,800	5,388.2
1969	July 18, 19, 1969	45,500	5,449.4	Apr. 15, 1969	7,990	5,375.3
1970	June 21-23, 27,29,30, 1970	45,400	5,449.3	Oct. 26 to Nov. 6, 1969	24,400	5,414.0

Period of record: Maximum contents, 46,200 acre-ft Aug. 15, 1965 (elevation, 5,450.3 ft); minimum since reservoir first filled, 1,740 acre-ft Oct. 5-9, 1962 (elevation, 5,349.85 ft).

REMARKS.--Reservoir is formed by an earthfill dam. Storage began Dec. 15, 1959. Usable capacity, 45,800 acre-ft between elevations 5,327.5 (centerline of fishwater outlet) and 5,450.0 ft (top of spillway gates). Dead storage, 160 acre-ft. Records, including extremes, represent total contents. Reservoir is used to store water for power development. See schematic diagram of South Fork American River basin elsewhere in this report.

REVISIONS (WATER YEARS).--WSP 1931: 1960.

Capacity table, water years 1966-70 (elevation, in feet, and contents, in acre-feet)

5,360	3,840	5,400	17,600	5,450	46,000
5,380	9,600	5,420	27,400		

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25400	22000	4580	5720	6670	7420	11000	23500	33400	35000	34500	33600
2	25400	22000	4610	5740	6700	7450	11500	24000	33500	35000	34500	33600
3	25400	22000	4660	5790	6730	7450	11900	24100	33600	35000	34500	33600
4	25300	22000	4700	5820	6760	7510	12300	25200	33700	35000	34400	33600
5	25300	22000	4750	5880	6790	7570	12800	25600	33700	35000	34400	33500
6	25300	21600	4800	5930	6820	7630	13300	26200	33700	35000	34300	33500
7	25300	20600	4820	5960	6250	7690	13800	26600	33800	35000	34300	33400
8	25200	19500	4870	6020	6880	7750	14300	27100	33900	35000	34300	33400
9	25200	18500	4920	6040	6910	7810	14700	27400	34000	34900	34300	33400
10	25200	17600	4940	6070	6940	7840	15100	28000	34200	34900	34200	33400
11	25200	16700	4970	6100	6970	7900	15400	28500	34300	34900	34200	33300
12	25200	15800	5020	6130	7000	7990	15700	28800	34400	34900	34200	33300
13	25200	14900	5070	6160	7000	8050	15900	29200	34500	34800	34200	33200
14	25100	14100	5140	6190	7030	8110	16200	29500	34500	34800	34200	33200
15	25100	13300	5200	6190	7060	8170	16500	29800	34600	34800	34200	33200
16	25100	12500	5220	6220	7090	8240	17000	30200	34700	34800	34200	33200
17	25100	11800	5200	6250	7120	8300	17500	30500	34800	34800	34200	33200
18	25100	11400	5200	6280	7150	8380	18000	30800	34800	34800	34100	33100
19	25100	10500	5200	6310	7150	8440	18200	31100	34800	34800	34000	33100
20	24900	9780	5200	6340	7180	8520	18500	31400	34800	34700	34000	33100
21	24300	8900	5250	6370	7210	8580	18700	31600	34800	34700	34000	33100
22	23600	8140	5270	6400	7240	8690	19000	31900	34800	34800	33900	33100
23	22700	7480	5300	6430	7270	8800	19400	32100	34900	34700	33900	33100
24	22200	6790	5330	6460	7300	8900	19800	32400	34900	34600	33900	33000
25	22100	6040	5380	6490	7330	9000	20400	32500	35000	34600	33800	33000
26	22100	5350	5430	6520	7360	9140	21000	32700	35000	34600	33700	33000
27	22100	4680	5480	6550	7390	9320	21600	32900	35000	34600	33700	32900
28	22100	4440	5530	6580	7390	9560	22100	33100	35000	34600	33700	32900
29	22100	4490	5560	6610	---	9840	22600	33200	35000	34600	33600	32900
30	22100	4510	5610	6640	---	10200	23000	33300	35000	34500	33600	32900
31	22000	---	5660	6670	---	10500	---	33400	---	34500	33600	---
MAX	25400	22000	5660	6670	7390	10500	23000	33400	35000	35000	34500	33600
MIN	22000	4440	4580	5720	6250	7420	11000	23500	33400	34500	33600	32900
(+)	5409.3	5362.8			5373.3	5382.6	5411.3	5430.9	5433.5	5432.7	5431.1	5430.0
(‡)	-3400	-17490	+1150	+1010	+720	+3110	+12500	+10400	+1600	-500	-900	-700

CAL YR 1965 MAX 46200 MIN 4440 ‡ -28740
WTR YR 1966 MAX 35000 MIN 4440 ‡ +7500

+ ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11441100 ICE HOUSE RESERVOIR NEAR KYBURZ, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32900	27800	19300	16200	18300	13100	11700	14800	33600	45900	43700	39400
2	32800	27800	19300	16200	18500	12700	11700	14900	33700	45400	43600	39200
3	32800	27600	19400	16200	18500	12300	11900	14900	33600	45200	43500	39100
4	32700	27100	19400	16200	18600	11900	12000	15000	33600	45300	43400	38900
5	32700	26600	19600	16200	18700	11500	12100	15100	33700	45400	43300	38700
6	32700	26100	20000	16200	18500	11100	12300	15300	33900	45700	43200	38600
7	32400	25600	20200	16200	18200	10600	12400	15500	34000	45700	43000	37400
8	31900	25200	20000	16300	17900	10200	12500	15700	34200	45400	42900	37200
9	31500	24700	20000	16300	17800	9780	12700	16000	34500	45100	42800	37000
10	31000	24400	20000	16300	17900	9390	12800	16300	34800	45200	42700	37900
11	30600	24400	20000	16300	18000	9040	12900	16600	35200	45400	42500	37700
12	30200	24400	19800	16400	18000	8690	13000	16800	35400	45400	42400	37600
13	29800	24300	19400	16400	18000	8340	13100	17000	35700	45600	42300	37400
14	29500	24000	19000	16400	17600	7990	13200	17300	36200	45600	42200	37200
15	29200	23600	18600	16500	17300	7660	13300	17700	36700	45500	42000	37000
16	28900	23100	18200	16500	17000	7750	13400	18200	37500	45400	41800	36800
17	28600	22400	17800	16500	16700	8410	13500	19000	38500	45400	41700	36600
18	28300	22200	17300	16500	16500	8940	13700	19900	39200	45200	41600	36500
19	28000	22000	16900	16500	16200	9280	13800	20800	39900	45100	41500	36300
20	28000	21700	16500	16600	15900	9530	13900	21800	40600	44900	41300	36300
21	28000	21400	16100	16800	15600	9780	13900	23200	41200	44800	41100	36100
22	28000	21000	15900	16900	15300	9950	14100	24600	41800	44600	40900	35900
23	28000	20700	15900	16900	15100	10200	14100	25800	42300	44400	40700	35900
24	28000	20400	16000	17100	14600	10300	14200	27000	42900	44300	40700	35900
25	27900	20200	16000	17100	14500	10500	14300	28200	43500	44100	40500	35900
26	27800	20000	16000	17200	14200	10700	14400	29200	43900	43900	40400	35900
27	27800	19800	16000	17300	13900	10900	14500	30200	44600	43600	40200	35900
28	27800	19700	16000	17500	13600	11000	14500	31000	45400	43600	40000	35900
29	27800	19800	16100	17800	---	11200	14600	31800	46000	43700	39900	35800
30	27800	19500	16100	18000	---	11300	14700	32500	46000	43800	39700	35800
31	27800	---	16100	18200	---	11500	---	33100	---	43800	39600	---
MAX	32900	27800	20200	18200	18700	13100	14700	33100	46000	45900	43700	39400
MIN	27800	19500	15900	16200	13600	7660	11700	14800	33600	43600	39600	35800
(†)	5420.8	5404.2	5396.6	5401.3	5390.2	5385.0	5393.0	5430.4	5450.1	5447.0	5440.5	5434.7
(‡)	-5100	-8300	-3400	+2100	-4600	-2100	+3200	+18400	+12900	-2200	-4200	-3800

CAL YR 1966 MAX 35000 MIN 5720 ‡ +10440
WTR YR 1967 MAX 46000 MIN 7660 ‡ +2900

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN THOUSANDS OF ACRE-FEET.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35700	28500	24800	21400	15000	19200	23300	30700	38000	34900	29800	25200
2	35700	28400	24800	21100	14900	19400	23500	31000	38200	34700	29600	25000
3	35800	28200	24600	20800	15000	19600	23600	31400	38300	34600	29400	24400
4	35800	28000	24600	20600	15000	19700	23800	31800	38500	34500	29300	23400
5	35900	28000	24500	20600	15000	19800	24000	32100	38500	34300	29100	23100
6	35900	27800	24400	20600	15100	20000	24200	32400	38500	34100	29000	21600
7	35900	27700	24300	20600	15100	20100	24300	32700	38700	33900	28800	20700
8	35900	27600	24200	20400	15100	20300	24500	33000	38800	33800	28600	19800
9	35900	27400	24100	20200	15100	20400	24800	33200	38900	33600	28500	18800
10	35900	27300	24000	19900	15100	20500	25100	33500	38900	33400	28300	18400
11	35900	27200	23900	19600	15100	20600	25400	33700	38700	33300	28200	17000
12	35900	27000	23700	19400	15200	20700	25700	33900	38500	33000	28000	16100
13	35900	26900	23600	19100	15200	20800	26000	34000	38400	32900	27800	15300
14	35900	26800	23400	18900	15200	20900	26300	34300	38300	32700	27600	14500
15	35900	26700	23400	18700	15200	21000	26600	34500	38100	32500	27400	13600
16	35800	26600	23200	18500	15300	21100	26800	34800	38000	32400	27300	13200
17	35800	26400	23100	18300	15400	21200	27000	35000	37800	32200	27200	13200
18	35800	26400	23000	18100	15500	21300	27200	35200	37700	32100	27000	13100
19	35700	26200	22900	17900	15600	21400	27300	35400	37500	31900	26900	13100
20	35700	26200	22800	17600	16100	21500	27400	35700	37200	31700	26800	13100
21	35700	26000	22600	17400	16600	21600	27600	35900	37000	31500	26800	13100
22	35200	25900	22600	17200	17000	21600	27800	36100	36800	31400	26600	13100
23	34100	25800	22500	17000	17500	21800	28000	36300	36600	31200	26400	13000
24	33000	25700	22400	16700	18000	21800	28200	36400	36500	31000	26400	13000
25	31900	25600	22200	16500	18200	22000	28400	36600	36300	30900	26200	13000
26	30900	25400	22100	16200	18500	22000	28700	36800	36100	30700	26100	13000
27	30000	25300	22000	16000	18700	22200	29100	37000	35900	30600	26000	12900
28	29600	25200	21800	15800	18900	22400	29400	37300	35500	30400	25800	12900
29	29200	25000	21800	15600	19000	22600	29800	37500	35400	30300	25600	12800
30	28800	25000	21600	15400	---	22800	30200	37700	35100	30100	25400	12800
31	28600	---	21500	15200	---	23100	---	37800	---	29900	25300	---
MAX	35900	28500	24800	21400	19000	23100	30200	37800	38900	34900	29800	25200
MIN	28600	25000	21500	15200	14900	19200	23300	30700	35100	29900	25300	12800
(†)	5422.4	5415.1	5408.2	5394.3	5403.2	5411.4	5425.3	5437.8	5433.6	5424.8	5415.8	5388.2
(‡)	-7200	-3600	-3500	-6300	+3800	+4100	+7100	+7600	-2700	-5200	-4600	-12500

CAL YR 1967 MAX 46000 MIN 7660 ‡ +5400
WTR YR 1968 MAX 38900 MIN 12800 ‡ -23000

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11441100 ICE HOUSE RESERVOIR NEAR KYBURZ, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12800	10000	12900	14200	19800	22700	12600	15900	41300	43200	44700	44200
2	12800	10200	13000	14300	19900	22700	12300	16300	42100	43300	44700	44200
3	12700	10800	13000	14300	20000	22800	12000	16400	42500	43400	44700	44200
4	12700	11000	13000	14300	20100	22800	11700	17400	42700	43500	44700	44100
5	12700	11100	13100	14300	20200	23000	11400	17800	42900	43700	44700	44100
6	12700	11100	13100	14400	20400	23000	11000	18600	43000	43700	44700	44100
7	12300	11200	13100	14400	20500	23000	10600	20200	42900	43800	44700	43900
8	11600	11200	13100	14500	20600	23100	10200	21400	42600	44000	44700	44000
9	10900	11300	13200	14500	20600	23100	9840	22600	42200	44200	44700	43900
10	10400	11400	13200	14500	20800	23200	9420	24000	41800	44400	44600	43900
11	10200	11500	13300	14700	20900	22800	9080	25200	41500	44600	44600	43900
12	10200	11600	13300	14700	21000	22200	8760	26300	41200	44700	44600	43900
13	10200	11700	13300	14900	21100	21600	8480	27400	41200	44800	44600	43900
14	10200	11800	13400	14900	21200	21100	8170	28400	41300	45100	44600	43800
15	10200	11800	13500	15000	21400	20500	8110	29100	41500	45200	44600	43800
16	10200	11900	13500	15100	21400	20000	8410	29600	41700	45400	44600	43700
17	10200	11900	13600	15100	21500	19400	8760	30300	41700	45400	44600	43700
18	10200	12100	13600	15200	21600	18900	9180	30900	41900	45500	44600	43700
19	10200	12200	13600	15600	21600	18400	9670	31400	41900	45500	44600	43700
20	10200	12300	13700	16100	21800	17800	10200	31900	42000	45400	44600	43600
21	10200	12400	13700	16700	21800	17300	10200	32400	42000	45400	44600	43600
22	10200	12500	13700	17100	21900	16800	11700	33200	42100	45400	44500	43600
23	10200	12600	13800	17300	22000	16300	12400	33700	42100	45300	44400	43600
24	10200	12700	13900	17600	22200	15900	12700	34500	42200	45100	44400	43600
25	10200	12700	14000	18000	22300	15400	13200	35000	42400	45100	44400	43600
26	10100	12700	14000	18400	22400	14900	13800	35500	42600	45000	44400	43500
27	10100	12800	14100	18800	22500	14500	14300	36300	42700	44800	44400	43500
28	10100	12800	14100	19000	22600	14000	14700	36700	42800	44800	44300	43500
29	10100	12900	14100	19200	---	13600	15200	37600	42900	44600	44200	43500
30	10100	12900	14200	19400	---	13200	15600	38900	43000	44600	44200	43400
31	10100	---	14200	19600	---	12900	---	40200	---	44600	44200	---
MAX	12800	12900	14200	19600	22600	23200	15600	40200	43000	45500	44700	44200
MIN	10100	10000	12900	14200	19800	12900	8110	15900	41200	43200	44200	43400
(†)	5381.3	5388.5	5391.7	5404.4	5410.4	5388.4	5395.2	5441.5	5445.8	5448.2	5447.6	5446.4
(‡)	-2700	+2800	+1300	+5400	+3000	-9700	+2700	+24600	+2800	+1600	-400	-800

CAL YR 1968 MAX 38900 MIN 10000 ‡ -7300
WTR YR 1969 MAX 45500 MIN 8110 ‡ +30600

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43400	24400	25000	29200	37500	36500	35100	41100	44200	45300	42100	37000
2	43300	24400	25000	29200	37600	36700	35400	41400	44300	45300	42000	36700
3	43300	24400	25000	29300	37400	36800	35500	41800	44300	45200	41900	36500
4	43200	24400	25000	29300	37200	36900	35700	42000	44200	45200	41700	36300
5	42600	24400	25000	29400	37000	37100	36000	42000	44200	45200	41600	36300
6	41700	24400	25000	29400	36800	37200	36300	42000	44000	45100	41400	36400
7	40700	24500	25000	29500	36500	37300	36500	41900	43800	45100	41300	36400
8	39600	24600	25000	29600	36200	37300	36800	41700	43700	45000	41300	36300
9	39400	24600	25000	29800	35900	37200	37100	41700	44400	44800	41300	36300
10	37600	24600	25000	29900	35700	37000	37400	41700	44500	44800	41300	36300
11	36600	24600	25000	30000	35400	36800	37700	41500	44600	44700	41300	36300
12	35600	24700	25000	30100	35200	36500	38000	41300	44600	44600	41300	36200
13	34600	24700	25100	30900	35200	36300	38100	41300	44600	44600	41200	36100
14	33700	24700	25100	31200	35200	36000	38400	41500	44600	44500	41000	36100
15	33600	24700	25100	31400	35200	35800	38600	41800	44600	44400	40900	36100
16	32200	24800	25100	32400	35200	35500	38700	42200	44700	44200	40700	36100
17	31500	24800	25100	33900	35400	35300	38900	42600	44800	44100	40600	36100
18	30700	24900	25200	34500	35500	35000	39100	43000	45000	44000	40400	36000
19	29900	25000	25200	34900	35700	34700	39200	43200	45100	43900	40200	35900
20	29100	25000	26100	36100	35800	34500	39400	43200	45300	43800	39900	35900
21	28200	25000	27200	38900	35900	34300	39500	43400	45400	43700	39700	35900
22	27200	25000	27400	38800	36100	34000	39600	43500	45400	43500	39400	35900
23	26400	25000	27600	37300	36200	33900	39700	43700	45400	43400	39200	35900
24	25600	25000	28200	37000	36300	33700	39900	43800	45300	43300	38900	35900
25	24700	25000	28400	37800	36300	33800	40000	44000	45100	43200	38600	35800
26	24400	25000	28600	37600	36200	34000	40100	44200	45100	43000	38200	35800
27	24400	25000	28700	37700	36300	34200	40200	44300	45400	42900	38000	35800
28	24400	25000	28900	37600	36300	34400	40400	44300	45300	42700	37800	35700
29	24400	25000	29000	37600	---	34600	40600	44200	45400	42600	37600	35700
30	24400	25000	29100	37500	---	34700	40800	44300	45400	42400	37400	35700
31	24400	---	29200	37500	---	35000	---	44300	---	42200	37200	---
MAX	43400	25000	29200	38900	37600	37300	40800	44300	45400	45300	42100	37000
MIN	24400	24400	25000	29200	35200	33700	35100	41100	43700	42200	37200	35700
(†)	5414.1	5415.3	5423.4	5437.3	5435.5	5433.4	5442.4	5447.7	5449.2	5444.6	5436.8	5434.6
(‡)	-19000	+600	+4200	+8300	-1200	-1300	+5800	+3500	+1100	-3200	-5000	-1500

CAL YR 1969 MAX 45500 MIN 8110 ‡ +15000
WTR YR 1970 MAX 45400 MIN 24400 ‡ -7700

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

11441500 SOUTH FORK SILVER CREEK NEAR ICE HOUSE, CALIF.

LOCATION.--Lat 38°49'08", long 120°21'51", in NW¼NW¼ sec.12, T.11 N., R.14 E., El Dorado County, Eldorado National Forest, on right bank 300 ft upstream from Peavine Creek, 0.4 mile downstream from Ice House Dam, and 4.8 miles northwest of Kyburz.

DRAINAGE AREA.--27.5 sq mi.

PERIOD OF RECORD.--October 1924 to September 1970.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,290 ft (from topographic map). Prior to Oct. 1, 1959, at site 0.3 mile downstream at different datum.

AVERAGE DISCHARGE.--46 years, 74.9 cfs (54,300 acre-ft per year), adjusted for change in contents in Ice House Reservoir.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Nov. 6, 1965	536	4.52	Feb. 17-21, 1966	5.2
1967	June 30, 1967	672	4.68	Dec. 31, 1966, to Jan. 2, 1967	3.8
1968	Oct. 22-24, 1967	592	4.59	Mar. 12, 1968	5.1
1969	Mar. 11, 1969	545	4.55	Many days	5.7
1970	Jan. 22, 1970	1,800	5.66	Nov. 19, 1969	3.8

Period of record: Maximum discharge, 3,940 cfs Dec. 23, 1955 (gage height, 6.71 ft, site and datum then in use), from rating curve extended above 540 cfs on basis of slope-area measurement at gage height 6.69 ft; no flow Oct. 31 to Nov. 9, 1958. Maximum discharge since construction of Ice House Dam in 1959, 1,800 cfs Jan. 22, 1970 (gage height, 5.66 ft), from rating curve extended above 620 cfs on basis of computation of flow over dam at gage height 5.66 ft; minimum daily, 1.2 cfs Mar. 17-19, 1960.

REMARKS.--Records excellent. Beginning in December 1959, flow regulated by Ice House Reservoir (see station 11441100). See schematic diagram of South Fork American River basin elsewhere in this report.

REVISIONS (WATER YEARS).--WSP 1395: 1928, 1938. WSP 1635: Drainage area at former site.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	9.1	6.0	5.7	5.7	5.7	6.5	10	9.5	9.5	10	10
2	11	6.8	5.7	5.7	5.7	5.7	6.2	11	9.5	9.5	10	10
3	11	6.8	6.0	5.7	5.7	5.7	6.0	11	9.5	9.5	10	9.8
4	11	6.8	6.0	5.7	5.7	5.7	6.0	11	9.5	9.5	9.8	9.8
5	11	6.5	6.0	6.2	5.7	5.7	6.0	11	9.5	9.5	9.8	9.8
6	11	196	5.7	6.2	6.0	5.7	6.0	11	9.5	9.5	9.8	9.8
7	11	528	5.7	6.0	5.7	6.0	6.0	11	9.8	9.5	9.8	9.8
8	11	520	5.7	5.7	5.4	6.0	6.0	11	9.8	9.5	9.8	9.8
9	11	513	5.7	5.4	5.4	6.2	6.2	11	9.5	9.5	9.8	9.8
10	11	506	5.7	5.4	5.4	7.1	7.4	12	9.5	9.5	10	9.8
11	11	499	6.0	5.4	5.4	6.2	7.4	11	9.5	9.5	10	9.8
12	11	492	6.0	5.4	5.4	6.2	7.1	11	9.5	9.5	10	9.8
13	11	485	6.0	5.4	5.4	7.1	7.1	11	9.5	9.8	10	9.5
14	13	478	6.0	5.4	5.4	6.8	6.8	11	9.5	10	10	9.5
15	11	471	6.0	5.4	5.4	6.8	6.8	11	9.5	10	10	9.5
16	11	471	5.7	5.7	5.4	6.5	6.8	11	9.5	10	10	9.5
17	11	464	5.7	5.4	5.2	6.5	6.8	9.5	9.5	10	10	9.1
18	11	402	5.7	5.4	5.2	6.5	6.8	9.1	9.5	10	10	9.1
19	11	380	5.7	5.4	5.2	6.5	6.5	9.1	9.5	10	10	9.1
20	116	444	5.7	5.4	5.2	6.5	6.5	9.5	9.5	10	10	9.1
21	312	438	5.7	5.4	5.2	6.5	6.2	9.5	9.5	10	10	9.1
22	414	432	5.7	5.4	5.4	6.5	6.0	9.5	9.5	9.8	10	9.1
23	414	426	5.7	5.4	5.7	6.8	6.2	9.5	9.5	9.8	10	9.1
24	292	420	5.4	5.4	5.7	7.1	6.2	9.5	9.5	9.8	10	9.1
25	11	408	6.0	5.4	5.7	7.1	6.0	9.5	9.5	9.8	10	9.1
26	11	402	5.7	5.4	5.7	7.4	6.0	9.5	9.5	9.5	10	9.1
27	11	385	5.7	5.4	5.7	7.4	6.0	9.5	9.5	9.5	10	9.1
28	11	147	5.7	5.4	5.7	7.4	8.4	9.5	9.5	9.5	10	9.1
29	11	9.8	5.7	5.7	---	6.8	10	9.5	9.5	9.8	10	9.5
30	11	9.8	5.7	5.7	---	6.8	10	9.5	9.5	9.8	10	9.5
31	11	---	5.7	5.7	---	6.5	---	9.5	---	9.8	10	---
TOTAL	1836	9962.6	179.4	172.3	154.4	201.4	201.9	317.7	285.6	300.9	308.8	284.2
MEAN	59.2	332	5.79	5.56	5.51	6.50	6.73	10.2	9.52	9.71	9.96	9.47
MAX	414	528	6.0	6.2	6.0	7.4	10	12	9.8	10	10	10
MIN	11	6.5	5.4	5.4	5.2	5.7	6.0	9.1	9.5	9.5	9.8	9.1
AC-FT	3640	19760	356	342	306	399	400	630	566	597	613	564

CAL YR 1965 TOTAL 50229.0 MEAN 138 MAX 609 MIN 5.4 AC-FT 99630 MEAN† 97.9 AC-FT† 70860
WTR YR 1966 TOTAL 14205.2 MEAN 38.9 MAX 528 MIN 5.2 AC-FT 28180 MEAN† 49.3 AC-FT† 35680

† ADJUSTED FOR CHANGE IN CONTENTS IN ICE HOUSE RESERVOIR.

11441500 SOUTH FORK SILVER CREEK NEAR ICE HOUSE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5	11	203	3.8	4.2	236	4.9	7.1	12	654	84	89
2	9.5	8.1	121	3.8	4.2	236	4.9	9.5	153	645	89	89
3	9.5	100	13	4.2	4.2	236	4.9	9.5	305	520	89	89
4	9.5	262	13	4.7	4.2	236	4.9	10	305	335	89	89
5	9.5	270	13	4.7	4.5	236	5.2	10	305	258	89	89
6	9.5	270	14	4.7	117	236	5.2	11	305	172	89	89
7	140	270	12	4.7	194	236	5.2	11	305	209	89	89
8	250	266	82	4.7	191	236	5.7	12	305	325	89	89
9	250	266	118	4.7	122	236	5.4	12	305	325	89	89
10	250	171	12	4.7	5.2	240	5.4	11	305	204	89	89
11	218	12	12	4.7	4.5	236	5.2	11	305	124	89	89
12	197	12	138	4.5	4.5	236	5.4	11	305	124	89	89
13	194	12	229	4.5	91	232	5.7	11	305	124	89	89
14	185	168	229	4.5	194	232	5.4	11	305	146	90	89
15	174	266	229	4.5	191	229	5.2	12	310	172	90	89
16	174	266	232	4.5	191	125	5.2	12	310	172	90	89
17	174	274	232	4.5	191	7.1	4.9	12	310	172	90	89
18	177	215	232	4.5	191	6.0	4.9	12	310	172	90	90
19	139	163	232	4.5	188	5.7	4.9	12	315	172	90	92
20	49	163	232	4.5	188	5.7	4.9	12	315	172	90	92
21	11	209	232	5.4	188	5.7	4.9	12	320	172	90	92
22	11	206	132	4.7	188	5.7	4.9	12	320	172	90	59
23	11	188	7.8	4.5	185	6.0	4.9	12	320	172	89	9.1
24	11	188	7.8	4.5	185	5.4	4.9	12	320	172	89	9.1
25	11	134	7.4	4.7	185	5.2	4.7	11	320	172	89	9.1
26	11	99	7.1	5.2	185	5.2	5.4	11	320	172	89	9.1
27	11	99	6.2	5.4	185	5.2	6.0	11	257	172	89	9.1
28	11	158	5.7	4.9	203	6.0	6.0	11	215	85	89	9.1
29	11	206	5.4	7.4	---	5.4	5.7	11	215	11	89	9.1
30	11	203	4.2	6.2	---	4.9	6.0	11	500	11	89	9.1
31	11	---	3.8	4.7	---	4.9	---	12	---	50	89	---
TOTAL	2749.0	5135.1	3017.4	147.5	3588.5	3738.1	156.8	345.1	8802	6558	2763	2010.8
MEAN	88.7	171	97.3	4.76	128	121	5.23	11.1	293	212	89.1	67.0
MAX	250	274	232	7.4	203	240	6.0	12	500	654	90	92
MIN	9.5	8.1	3.8	3.8	4.2	4.9	4.7	7.1	12	11	84	9.1
AC-FT	5450	10190	5990	293	7120	7410	311	685	17460	13010	5480	3990

CAL YR 1966 TOTAL 13128.7 MEAN 36.0 MAX 274 MIN 3.8 AC-FT 26040 MEAN† 50.3 AC-FT† 36480
WTR YR 1967 TOTAL 39011.3 MEAN 107 MAX 654 MIN 3.8 AC-FT 77380 MEAN† 111 AC-FT† 80270

† ADJUSTED FOR CHANGE IN CONTENTS IN ICE HOUSE RESERVOIR.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1	68	69	67	143	8.2	5.5	7.9	11	132	84	84
2	9.8	66	69	127	92	8.2	5.3	9.2	11	102	84	84
3	9.5	66	69	162	7.7	7.9	5.3	9.2	11	87	84	351
4	9.1	68	71	101	7.4	7.9	5.7	9.2	11	87	83	478
5	9.1	68	71	7.7	7.4	6.8	6.0	9.2	11	87	83	478
6	9.1	68	69	7.4	7.4	5.3	6.0	9.2	11	87	83	464
7	9.1	69	69	7.4	7.4	5.5	5.7	10	11	87	83	458
8	9.1	71	69	94	7.4	5.5	5.7	11	11	87	83	452
9	8.8	71	69	150	7.7	5.5	5.7	11	11	87	83	452
10	8.8	71	69	150	7.7	5.3	5.7	11	79	87	83	458
11	8.8	71	69	150	7.7	5.3	5.7	11	132	87	83	458
12	8.8	71	69	148	7.7	5.1	5.5	11	132	86	83	458
13	8.8	71	69	145	7.7	5.3	5.5	11	132	86	83	458
14	8.8	71	69	145	7.7	5.3	5.5	11	132	86	83	445
15	8.8	69	69	148	7.7	5.3	6.0	11	132	86	83	439
16	9.1	69	69	148	7.9	5.3	6.0	11	132	86	83	210
17	9.1	71	68	148	9.2	5.3	5.5	11	132	86	83	9.6
18	9.1	71	68	148	7.9	5.3	5.5	11	132	86	83	10
19	9.1	71	68	148	8.9	5.3	5.5	11	132	86	83	10
20	9.1	71	68	148	10	5.3	5.3	11	132	86	83	11
21	9.1	71	68	148	10	5.5	5.3	11	132	86	81	10
22	245	71	68	148	9.2	5.5	5.3	11	132	86	81	10
23	592	71	68	148	9.9	5.5	5.3	11	132	84	81	10
24	592	71	66	148	8.9	5.5	5.3	11	132	84	81	10
25	584	71	66	148	8.5	6.0	6.0	11	132	84	81	10
26	584	71	68	148	8.5	5.5	6.5	11	132	84	83	10
27	437	69	68	148	8.5	5.5	6.5	11	132	84	84	10
28	226	69	66	148	8.5	5.5	6.5	11	132	84	84	10
29	222	69	66	148	8.2	5.3	6.3	11	132	84	84	10
30	222	69	66	148	---	5.3	6.0	11	132	84	84	10
31	126	---	66	148	---	5.3	---	11	---	84	84	---
TOTAL	4020.1	2094	2116	3977.5	457.7	179.3	171.6	327.9	2818	2719	2571	6367.6
MEAN	130	69.8	68.3	128	15.8	5.78	5.72	10.6	93.9	87.7	82.9	212
MAX	592	71	71	162	143	8.2	6.5	11	132	132	84	478
MIN	8.8	66	66	7.4	7.4	5.1	5.3	7.9	11	84	81	9.6
AC-FT	7970	4150	4200	7890	908	356	340	650	5590	5390	5100	12630

CAL YR 1967 TOTAL 36339.9 MEAN 99.6 MAX 654 MIN 3.8 AC-FT 72080 MEAN† 107 AC-FT† 77470
WTR YR 1968 TOTAL 27819.7 MEAN 76.0 MAX 592 MIN 5.1 AC-FT 55180 MEAN† 44.3 AC-FT† 32180

† ADJUSTED FOR CHANGE IN CONTENTS IN ICE HOUSE RESERVOIR.

11441500 SOUTH FORK SILVER CREEK NEAR ICE HOUSE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	7.1	6.3	5.7	7.9	6.8	300	6.3	13	72	12	11
2	10	5.7	6.0	5.7	7.7	6.8	300	8.8	232	47	12	11
3	10	7.1	6.0	5.7	7.4	6.5	300	11	427	46	12	11
4	10	6.0	6.0	5.7	7.7	6.5	300	11	427	46	12	11
5	10	5.7	6.0	5.7	7.7	6.5	300	11	433	46	12	11
6	10	6.0	6.0	5.7	7.7	6.5	295	11	433	46	12	11
7	173	6.8	6.0	5.7	7.4	6.5	295	11	433	46	12	11
8	320	7.4	6.0	5.7	7.1	6.5	295	11	433	26	12	11
9	295	7.4	6.0	5.7	7.1	6.5	290	11	433	11	12	12
10	240	7.4	6.5	5.7	7.1	6.5	290	12	445	12	12	11
11	75	7.4	6.3	6.3	7.1	172	295	12	452	12	12	11
12	10	7.4	6.0	6.5	7.4	295	305	12	452	12	12	11
13	10	7.1	6.0	8.2	7.1	300	305	12	363	12	12	11
14	10	7.1	6.0	7.7	7.4	300	305	12	305	12	12	11
15	9.9	7.7	6.3	6.5	7.1	300	187	154	305	12	12	11
16	9.9	7.7	6.0	6.3	7.1	295	6.8	305	305	12	12	11
17	10	7.7	5.7	6.3	7.1	295	7.7	305	305	12	12	11
18	10	7.7	5.7	6.8	7.4	295	7.7	305	305	46	12	11
19	10	6.8	6.0	12	7.4	295	6.8	305	305	81	12	11
20	10	6.8	5.7	16	7.4	295	6.8	305	240	81	12	11
21	10	6.8	5.7	16	7.4	295	7.7	310	199	81	12	11
22	10	6.8	5.7	9.2	7.4	290	7.1	310	199	86	12	11
23	10	6.8	5.7	8.2	7.1	290	6.8	310	199	89	12	11
24	10	6.8	6.3	8.5	7.1	290	6.8	315	125	87	12	11
25	10	6.8	6.3	14	7.1	290	6.8	315	79	87	12	11
26	10	6.5	6.0	12	7.1	295	6.5	315	81	87	12	11
27	10	6.5	6.0	8.5	6.8	300	6.5	315	81	87	12	11
28	10	6.3	6.0	8.2	6.8	305	6.8	325	81	87	12	11
29	11	6.0	6.0	7.9	---	305	7.1	215	81	87	12	11
30	11	6.0	6.0	7.9	---	300	7.1	13	81	43	12	11
31	10	---	6.0	7.9	---	300	---	13	---	12	12	---
TOTAL	1364.8	205.3	186.2	247.9	204.1	6167.6	4467.0	4587.1	8252	1523	372	331
MEAN	44.0	6.84	6.01	8.00	7.29	199	149	148	275	49.1	12.0	11.0
MAX	320	7.7	6.5	16	7.9	305	305	325	452	89	12	12
MIN	9.9	5.7	5.7	5.7	6.8	6.5	6.5	6.3	13	11	12	11
AC-FT	2710	407	369	492	405	12230	8860	9100	16370	3020	738	657

CAL YR 1968 TOTAL 21345.9 MEAN 58.3 MAX 478 MIN 5.1 AC-FT 42340 MEAN+ 48.3 AC-FT+ 35050
WTR YR 1969 TOTAL 27908.0 MEAN 76.5 MAX 452 MIN 5.7 AC-FT 55360 MEAN+ 119 AC-FT+ 85960

+ ADJUSTED FOR CHANGE IN CONTENTS IN ICE HOUSE RESERVOIR.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	10	5.5	6.5	115	8.0	5.0	7.2	263	74	72	99
2	11	10	6.0	6.5	105	8.0	5.7	7.2	263	74	72	99
3	11	9.9	6.8	6.5	175	7.6	6.3	7.6	263	74	72	99
4	11	9.9	6.8	6.8	176	7.2	6.3	120	263	74	72	47
5	287	8.5	6.8	6.8	191	6.9	6.3	256	260	74	72	11
6	504	5.5	6.5	6.8	218	8.4	5.7	256	260	74	72	11
7	497	4.2	6.5	6.8	218	21	5.2	256	260	75	36	11
8	490	4.9	6.8	6.8	218	48	5.4	252	208	75	14	11
9	490	4.9	6.8	7.9	218	126	5.4	252	103	75	14	11
10	490	6.0	6.8	7.4	224	161	5.4	252	93	75	14	11
11	490	6.5	6.8	7.1	235	179	5.4	249	93	75	12	11
12	484	6.5	6.8	7.9	163	200	5.4	249	93	75	12	11
13	478	5.7	7.1	8.5	109	207	6.0	249	93	75	12	11
14	478	5.3	6.8	12	109	204	6.3	249	93	75	99	11
15	471	5.1	6.8	8.8	109	204	6.9	249	64	75	87	11
16	484	4.9	6.8	16	48	204	6.9	252	48	75	87	11
17	497	4.2	6.8	13	7.6	204	6.9	252	47	75	82	11
18	399	4.0	6.8	9.6	7.2	204	6.9	252	47	74	84	11
19	490	3.8	7.4	9.9	7.2	204	7.2	252	71	74	106	11
20	490	4.4	8.5	9.2	7.2	204	6.9	252	88	74	119	11
21	497	5.5	9.2	287	7.2	204	6.6	252	88	74	115	11
22	490	5.5	7.7	1560	7.2	204	6.6	252	124	74	111	11
23	490	5.5	8.8	788	7.6	204	6.9	252	146	74	111	11
24	484	5.5	9.9	504	7.2	204	6.6	252	146	74	130	11
25	478	5.7	9.2	337	70	92	6.6	256	146	74	158	11
26	188	5.7	7.9	256	115	5.7	6.6	256	100	72	166	11
27	10	5.7	7.4	260	48	5.4	6.6	260	74	72	115	11
28	10	5.5	7.1	207	7.6	5.4	6.6	263	74	72	99	11
29	10	5.5	6.8	173	---	5.4	7.2	263	74	72	100	11
30	10	5.7	6.8	152	---	5.2	6.9	263	74	72	100	11
31	10	---	6.8	130	---	5.0	---	263	---	72	99	---
TOTAL	10240	180.0	223.5	4824.8	2930.0	3356.2	188.7	7003.0	4019	2293	2514	630
MEAN	330	6.00	7.21	156	105	108	6.29	226	134	74.0	81.1	21.0
MAX	504	10	9.9	1560	235	207	7.2	263	263	75	166	99
MIN	10	3.8	5.5	6.5	7.2	5.0	5.0	7.2	47	72	12	11
AC-FT	20310	357	443	9570	5810	6660	374	13890	7970	4550	4990	1250

CAL YR 1969 TOTAL 36795.2 MEAN 101 MAX 504 MIN 3.8 AC-FT 72980 MEAN+ 121 AC-FT+ 87970
WTR YR 1970 TOTAL 38402.2 MEAN 105 MAX 1560 MIN 3.8 AC-FT 76170 MEAN+ 94.5 AC-FT+ 68470

+ ADJUSTED FOR CHANGE IN CONTENTS IN ICE HOUSE RESERVOIR.

11441900 SILVER CREEK BELOW CAMINO DIVERSION DAM, CALIF.

LOCATION.--Lat 38°49'26", long 120°32'18", on line between secs.4 and 5, T.11 N., R.13 E., El Dorado County, Eldorado National Forest, on right bank 300 ft downstream from Round Tent Canyon, 0.4 mile downstream from diversion dam, and 5 miles northeast of Pollock Pines.

DRAINAGE AREA.--171 sq mi.

PERIOD OF RECORD.--October 1960 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 2,754.06 ft above mean sea level (Sacramento Municipal Utility District bench mark).

AVERAGE DISCHARGE.--10 years, 129 cfs (93,500 acre-ft per year), unadjusted.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Nov. 2, 1965	1,650	6.22	May 5-9, 1966	11
1967	May 11, 1967	2,800	7.09	Nov. 5, 1966	8.1
1968	Dec. 4, 1967	170	3.68	Jan. 5-7,Mar.12,Apr.14,18,19,1968	12
1969	Jan. 21, 1969	4,020	7.75	Dec. 8, 1968	7.0
1970	Jan. 22, 1970	7,540	9.01	Nov. 11, 1969	8.0

Period of record: Maximum discharge, 19,300 cfs Jan. 31, 1963 (gage height, 11.28 ft in gage well; 11.9 ft, from floodmarks), from rating curve extended above 1,500 cfs on basis of slope-area measurement of peak flow; minimum daily, 4.6 cfs July 1, 1964.

REMARKS.--Records good. Flow regulated by storage, diversions, and powerplants. See schematic diagram of South Fork American River basin elsewhere in this report. Records not adjusted for diversions or changes in storage.

DISCHARGE, IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	22	15	15	18	19	27	12	20	20	18	20
2	28	236	15	15	17	18	25	12	20	20	18	20
3	27	22	15	15	17	18	25	12	20	19	17	21
4	26	16	15	16	17	17	24	12	19	20	18	19
5	27	16	15	22	20	16	22	11	19	20	18	19
6	26	15	15	24	24	18	20	11	20	20	18	18
7	25	16	15	21	22	20	19	11	20	20	19	18
8	28	16	15	21	21	22	18	11	20	20	19	18
9	27	15	15	21	21	25	17	11	19	20	19	18
10	26	14	15	20	19	38	20	21	19	19	18	17
11	26	15	15	20	19	34	24	26	19	20	20	19
12	25	15	15	19	18	32	26	24	19	20	20	19
13	25	15	15	19	18	35	24	21	21	19	20	19
14	26	16	15	19	18	35	24	20	20	19	19	18
15	26	15	15	18	19	33	20	20	20	18	20	18
16	27	15	15	19	19	34	19	21	18	18	20	18
17	27	15	15	19	16	30	17	20	19	17	20	18
18	26	23	16	19	14	27	18	20	19	18	20	18
19	27	17	14	19	15	28	17	21	18	18	20	18
20	30	16	14	19	15	26	16	20	18	19	19	18
21	27	16	14	19	15	26	15	19	19	19	20	18
22	27	15	14	19	16	24	15	19	19	19	20	18
23	26	17	15	19	20	24	13	20	19	19	22	19
24	23	20	15	18	26	24	14	20	18	18	21	20
25	19	18	15	18	21	24	13	20	18	19	21	19
26	20	16	14	18	20	24	13	19	18	19	21	18
27	21	15	14	18	20	26	13	19	19	19	22	18
28	22	14	15	17	19	27	13	20	18	19	20	19
29	23	15	16	18	---	28	13	20	19	19	20	19
30	24	15	16	18	---	28	13	18	20	18	20	20
31	24	---	14	18	---	28	---	19	---	18	20	---
TOTAL	789	711	461	580	524	808	557	550	574	590	607	559
MEAN	25.5	23.7	14.9	18.7	18.7	26.1	18.6	17.7	19.1	19.0	19.6	18.6
MAX	30	236	16	24	26	38	27	26	21	20	22	21
MIN	19	14	14	15	14	16	13	11	18	17	17	17
AC-FT	1560	1410	914	1150	1040	1600	1100	1090	1140	1170	1200	1110

CAL YR 1965 TOTAL 61203 MEAN 168 MAX 1430 MIN 14 AC-FT 121400
WTR YR 1966 TOTAL 7310 MEAN 20.0 MAX 236 MIN 11 AC-FT 14500

11441900 SILVER CREEK BELOW CAMINO DIVERSION DAM, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	20	13	11	72	18	27	26	34	901	27	28
2	21	15	30	11	58	18	26	30	35	1030	27	29
3	20	12	23	11	46	18	25	128	36	872	27	28
4	16	11	17	11	39	18	26	331	37	648	27	29
5	17	8.1	37	9.6	34	18	26	363	37	610	27	29
6	17	8.7	67	9.5	33	18	28	691	233	533	27	29
7	18	8.6	36	12	31	18	29	729	395	545	27	28
8	21	10	26	11	31	18	28	788	389	541	27	29
9	21	11	20	11	30	17	29	842	218	539	29	28
10	20	11	20	12	30	18	29	991	20	260	29	29
11	19	11	19	13	30	19	28	869	18	25	29	29
12	19	11	18	13	29	20	28	797	19	24	29	29
13	18	11	17	13	29	20	29	798	21	24	29	28
14	18	13	16	13	28	19	30	779	21	24	30	28
15	17	14	16	13	28	19	35	793	22	24	29	28
16	18	16	14	13	27	89	29	949	24	24	29	28
17	18	14	13	13	26	84	30	917	23	24	29	28
18	17	13	12	14	25	66	33	810	23	24	29	29
19	16	13	12	13	24	54	32	796	23	24	29	28
20	15	15	12	14	24	48	37	791	220	24	29	28
21	15	15	12	50	23	45	25	784	337	24	29	28
22	17	16	12	37	22	43	32	768	340	24	29	32
23	18	13	11	29	22	52	27	733	334	25	30	29
24	18	13	11	26	21	50	32	505	331	24	30	25
25	19	12	11	24	20	44	26	501	331	23	30	26
26	19	11	11	33	19	39	26	471	142	24	30	27
27	19	12	10	48	18	35	30	456	423	24	30	25
28	19	12	11	53	18	34	26	115	438	25	30	24
29	19	9.7	11	103	---	33	25	33	22	25	29	25
30	19	12	11	96	---	31	25	34	470	23	28	25
31	20	---	12	86	---	29	---	34	---	26	28	---
TOTAL	569	372.1	561	826.1	837	1052	858	17652	5016	6987	888	835
MEAN	18.4	12.4	18.1	26.6	29.9	33.9	28.6	569	167	225	28.6	27.8
MAX	21	20	67	103	72	89	37	991	470	1030	30	32
MIN	15	8.1	10	9.5	18	17	25	26	18	23	27	24
AC-FT	1130	738	1110	1640	1660	2090	1700	35010	9950	13860	1760	1660

CAL YR 1966 TOTAL 6851.1 MEAN 18.8 MAX 67 MIN 8.1 AC-FT 13590
WTR YR 1967 TOTAL 36453.2 MEAN 99.9 MAX 1030 MIN 8.1 AC-FT 72300

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	31	14	14	17	17	18	18	16	14	18	14
2	27	21	14	14	18	16	17	22	16	15	17	13
3	29	14	14	14	18	15	17	18	16	15	17	14
4	28	14	17	13	20	15	16	18	17	17	19	16
5	29	14	27	12	20	14	15	19	16	15	17	17
6	26	15	22	12	20	13	13	19	16	15	17	17
7	23	14	19	12	21	13	13	18	16	16	18	17
8	24	14	17	13	23	15	14	17	16	15	18	17
9	27	15	15	14	24	14	14	18	14	15	18	16
10	31	15	14	16	21	13	14	18	15	16	18	16
11	31	16	14	15	20	13	14	18	16	15	17	16
12	31	16	13	14	19	12	14	17	16	15	17	15
13	31	16	13	14	17	13	14	19	17	15	18	16
14	24	17	13	15	16	14	12	19	17	16	19	17
15	27	16	14	34	15	14	13	20	16	15	17	17
16	27	16	14	26	15	15	13	20	16	15	17	16
17	27	15	14	22	32	16	13	18	15	15	17	16
18	28	16	15	20	30	14	12	17	16	15	16	16
19	27	19	15	19	32	14	12	17	16	15	17	16
20	30	16	15	18	73	14	13	18	16	16	17	16
21	31	15	14	19	68	15	14	18	17	17	17	16
22	31	15	14	16	51	15	14	19	16	14	17	16
23	30	17	14	17	54	16	13	18	15	16	16	17
24	31	16	14	18	42	16	13	18	15	17	15	16
25	32	17	15	18	32	17	13	18	14	18	15	17
26	32	16	15	18	27	18	14	17	14	17	15	17
27	32	19	15	17	23	18	13	17	14	17	16	17
28	30	14	15	17	20	20	13	17	14	18	15	16
29	31	15	15	16	18	20	13	17	14	17	17	16
30	31	14	16	17	---	19	15	17	16	17	15	16
31	31	---	15	17	---	18	---	17	---	17	15	---
TOTAL	894	488	475	521	806	476	416	561	468	490	522	482
MEAN	28.8	16.3	15.3	16.8	27.8	15.4	13.9	18.1	15.6	15.8	16.8	16.1
MAX	32	31	27	34	73	20	18	22	17	18	19	17
MIN	23	14	13	12	15	12	12	17	14	14	15	13
AC-FT	1770	968	942	1030	1600	944	825	1110	928	972	1040	956

CAL YR 1967 TOTAL 36808.1 MEAN 101 MAX 1030 MIN 9.5 AC-FT 73010
WTR YR 1968 TOTAL 6599.0 MEAN 18.0 MAX 73 MIN 12 AC-FT 13090

11441900 SILVER CREEK BELOW CAMINO DIVERSION DAM, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	13	9.4	14	29	17	64	20	20	21	21	24
2	16	16	8.4	14	26	17	60	19	21	21	21	23
3	16	20	8.3	42	24	16	55	18	20	21	22	23
4	17	14	8.3	14	22	16	50	17	20	21	22	23
5	17	13	8.2	15	22	17	61	16	21	21	23	23
6	17	13	8.1	16	22	18	55	15	21	20	22	23
7	17	13	7.3	16	20	18	52	14	22	21	23	22
8	16	11	7.0	16	18	18	47	13	20	20	23	23
9	16	13	8.5	16	17	18	41	13	21	20	22	24
10	17	14	12	15	17	17	41	12	20	20	18	24
11	17	14	15	16	18	17	43	12	21	19	23	23
12	16	16	13	22	23	16	45	11	22	20	23	23
13	16	13	12	65	22	16	46	14	22	19	23	23
14	17	12	13	71	23	16	43	21	21	18	23	23
15	16	14	18	45	31	17	38	21	21	19	22	23
16	16	14	17	33	30	18	35	21	22	21	21	23
17	16	14	15	26	28	20	34	20	20	19	19	23
18	16	14	14	31	27	23	36	20	21	18	22	24
19	15	14	13	392	25	26	34	20	22	17	23	23
20	16	11	12	2150	24	26	33	20	22	16	24	23
21	16	9.2	11	2910	22	26	33	21	22	19	23	23
22	16	8.7	11	1330	21	28	33	21	21	19	23	23
23	16	7.8	11	530	20	30	35	21	21	18	23	23
24	16	7.6	17	68	21	32	33	20	21	21	22	23
25	16	9.0	26	124	20	35	30	21	22	21	23	23
26	16	8.3	20	150	19	38	27	21	22	18	23	23
27	16	8.7	17	93	17	43	25	21	21	16	23	24
28	16	8.4	17	66	17	48	24	21	21	20	23	24
29	15	8.4	16	48	---	53	22	21	21	19	23	23
30	15	8.7	15	38	---	60	22	20	20	19	24	22
31	15	---	14	33	---	64	---	21	---	18	23	---
TOTAL	499	360.8	402.5	8419	625	824	1197	566	632	600	693	694
MEAN	16.1	12.0	13.0	272	22.3	26.6	39.9	18.3	21.1	19.4	22.4	23.1
MAX	17	20	26	2910	31	64	64	21	22	21	24	24
MIN	15	7.6	7.0	14	17	16	22	11	20	16	18	22
AC-FT	990	716	798	16700	1240	1630	2370	1120	1250	1190	1370	1380

CAL YR 1968 TOTAL 6004.3 MEAN 16.4 MAX 73 MIN 7.0 AC-FT 11910
WTR YR 1969 TOTAL 15512.3 MEAN 42.5 MAX 2910 MIN 7.0 AC-FT 30770

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	21	10	17	196	26	10	16	22	20	22	22
2	48	21	10	16	32	25	10	25	22	20	22	22
3	21	21	11	15	30	23	11	25	23	20	23	22
4	20	21	11	15	29	22	12	24	23	19	22	22
5	19	18	11	15	26	21	12	23	24	18	22	21
6	21	14	10	15	25	22	12	23	23	19	22	19
7	22	8.9	10	15	24	23	12	22	23	19	22	17
8	21	8.4	11	15	22	25	12	22	24	19	22	18
9	22	8.2	11	17	20	25	12	22	24	21	22	19
10	21	8.2	11	36	20	25	12	22	24	21	22	51
11	21	8.0	13	30	20	25	12	22	24	21	22	69
12	21	8.4	11	29	20	24	11	21	24	21	22	48
13	21	8.4	12	34	22	23	12	21	25	22	22	50
14	22	8.4	11	248	24	23	12	21	25	21	22	63
15	22	8.4	11	625	23	23	11	21	25	21	22	62
16	23	8.6	11	936	23	22	13	20	25	21	22	61
17	21	9.0	11	2290	38	21	12	20	25	21	22	60
18	20	9.0	11	1360	32	21	13	21	25	21	22	59
19	20	8.8	14	383	30	20	14	20	25	22	22	58
20	21	8.6	30	220	29	18	13	20	25	22	22	57
21	20	8.4	47	985	27	16	12	21	25	22	23	56
22	20	8.6	26	5090	25	15	13	21	25	22	22	55
23	21	8.4	28	3680	25	15	12	21	24	22	22	54
24	21	8.8	403	3300	22	15	11	21	24	22	22	52
25	21	9.5	155	2570	18	14	11	20	24	22	22	50
26	20	10	40	1810	18	14	12	19	24	22	22	49
27	20	10	30	2010	17	13	12	20	23	22	22	48
28	19	10	25	1590	17	12	13	19	23	22	22	47
29	20	9.7	22	1430	---	12	12	19	22	22	22	46
30	20	10	20	1320	---	12	12	20	20	23	22	44
31	21	---	17	746	---	11	---	21	---	23	21	---
TOTAL	673	328.7	1054	30862	854	606	358	653	714	653	683	1321
MEAN	21.7	11.0	34.0	996	30.5	19.5	11.9	21.1	23.8	21.1	22.0	44.0
MAX	48	21	403	5090	196	26	14	25	25	23	23	69
MIN	19	8.0	10	15	17	11	10	16	20	18	21	17
AC-FT	1330	652	2090	61210	1690	1200	710	1300	1420	1300	1350	2620

CAL YR 1969 TOTAL 16305.7 MEAN 44.7 MAX 2910 MIN 8.0 AC-FT 32340
WTR YR 1970 TOTAL 38759.7 MEAN 106 MAX 5090 MIN 8.0 AC-FT 76880

11442500 SOUTH FORK AMERICAN RIVER BELOW SILVER CREEK, NEAR POLLOCK PINES, CALIF.
(Formerly published as South Fork American River below Silver Creek)

LOCATION (REVISED).--Lat 38°47'37", long 120°37'02", in NE¼NE¼ sec.22, T.11 N., R.12 E., El Dorado County, Eldorado National Forest, on right bank 350 ft upstream from El Dorado powerhouse, 2.4 miles downstream from Silver Creek, and 2.8 miles northwest of Pollock Pines.

DRAINAGE AREA.--449 sq mi (revised).

PERIOD OF RECORD.--August to December 1923 (published as South Fork American River below Silver Creek), November 1969 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 1,862.79 ft above mean sea level. Aug. 11 to Dec. 16, 1923, nonrecording gage at present site at different datum.

EXTREMES.--Maximum discharge during period November 1969 to September 1970, 22,200 cfs Jan. 21 (gage height, 15.22 ft); minimum daily, 25 cfs Nov. 24.

Period of record: Maximum discharge, 22,200 cfs Jan. 21, 1970 (gage height, 15.22 ft); minimum daily, 25 cfs Nov. 24, 1969.

REMARKS.--Records good. Flow regulated by storage, diversions, and powerplants. See schematic diagram of South Fork American River basin elsewhere in this report.

DISCHARGE, IN CUBIC FEET PER SECOND, NOVEMBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		43	34	223	1180	764	490	563	1170	326	38	52
2		48	33	182	854	662	506	650	1170	275	39	36
3		47	35	170	803	599	530	783	1220	231	39	35
4		46	35	201	764	581	527	916	1270	317	39	34
5		71	30	222	731	556	572	993	1160	329	38	35
6		192	30	224	687	548	648	1080	1090	325	38	34
7		114	35	257	662	565	664	888	1060	285	38	31
8		44	40	186	655	617	648	870	1040	228	40	29
9		48	47	215	640	592	629	841	1640	223	42	30
10		53	49	722	622	588	727	989	1110	210	41	46
11		46	70	486	610	556	704	796	914	180	40	102
12		47	61	446	688	528	676	733	770	155	39	79
13		54	64	544	737	547	659	743	638	138	37	60
14		56	59	1970	694	609	607	944	675	116	36	85
15		51	50	1510	668	676	541	1140	610	79	35	86
16		46	43	7760	666	647	538	1460	525	76	36	85
17		72	39	6850	852	639	502	1690	484	102	38	87
18		41	35	3360	708	622	498	1770	489	75	36	84
19		30	74	1870	655	565	525	1680	579	45	35	82
20		29	1070	2300	615	539	489	1450	780	41	36	82
21		28	2030	11900	583	521	460	1350	770	39	36	80
22		28	1030	13100	557	526	432	1400	725	39	35	78
23		27	625	7390	541	554	404	1350	725	40	35	75
24		25	1480	7100	535	602	452	1340	710	37	35	72
25		27	1530	4980	519	652	480	1370	665	38	35	71
26		29	919	3660	520	673	548	1430	628	38	35	68
27		31	619	4150	529	642	494	1410	1700	38	37	67
28		30	483	3300	529	587	460	1230	999	36	38	87
29		29	437	2650	---	617	453	1190	663	37	36	125
30		35	404	2360	---	594	490	1170	421	36	33	106
31		---	285	1720	---	537	---	1180	---	37	33	---
TOTAL		1467	11775	92008	18804	18505	16353	35399	26400	4171	1148	2023
MEAN		48.9	380	2968	672	597	545	1142	880	135	37.0	67.4
MAX		192	2030	13100	1180	764	727	1770	1700	329	42	125
MIN		25	30	170	519	521	404	563	421	36	33	29
AC-FT		2910	23360	182500	37300	36700	32440	70210	52360	8270	2280	4010

11443500 SOUTH FORK AMERICAN RIVER NEAR CAMINO, CALIF.

LOCATION.--Lat 38°46'23", long 120°42'02", in NE¼SW¼ sec.25, T.11 N., R.11 E., El Dorado County, on right bank 500 ft upstream from Iowa Canyon Creek and 2.8 miles northwest of Camino. Prior to Oct. 11, 1966, at site 1,000 ft downstream.

DRAINAGE AREA.--493 sq mi. Area at site used prior to Oct. 11, 1966, 501 sq mi.

PERIOD OF RECORD.--October 1922 to September 1970. Monthly discharge only for October 1922, published in WSP 1315-A. Records for river and American River flume published separately October 1922 to September 1956, October 1962 to December 1964 when flume was destroyed. Combined records of river and flume October 1956 to September 1962.

GAGE.--Water-stage recorder. Altitude of gage is 1,620 ft (from topographic map). Nov. 1, 1950, to Dec. 5, 1951, nonrecording gage and Dec. 6, 1951, to May 27, 1964, water-stage recorder, at site 100 ft downstream at different datum. May 28, 1964, to Oct. 11, 1966, water-stage recorder at site 1,000 ft downstream at datum 11.37 ft lower.

AVERAGE DISCHARGE.--37 years (1922-59, prior to extensive regulation and transbasin diversion in South Fork American River basin), 961 cfs (695,700 acre-ft per year), combined flow of South Fork American River and American River flume.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	May 13, 1966	2,820	8.60	Nov. 1, 1965	15
1967	Mar. 16, 1967	8,260	14.04	Oct. 5, 1966	45
1968	Feb. 21, 1968	1,700	9.27	Mar. 13-18, 23-28, 1968	18
1969	Jan. 21, 1969	12,500	17.24	Feb. 13, 1969	8.2
1970	Jan. 21, 1970	24,500	a23.2	Feb. 12, 15, 1970	2.4

a From floodmarks.

Period of record: Maximum discharge, 49,800 cfs Dec. 23, 1955 (gage height, 32.6 ft, from floodmarks, site and datum then in use), from rating curve extended above 24,000 cfs on basis of computation of peak flow over dam; minimum daily, 1.3 cfs Aug. 24, 1931.

REMARKS.--Records good. No gage-height record Jan. 21 to Feb. 11, 1970. Flow regulated principally by six reservoirs (total usable capacity, 347,000 acre-ft). Echo Lake conduit (see station 11434500) imports up to 1,900 acre-ft each year from Truckee River basin. Variable amounts of El Dorado Canal water (up to 40 cfs May to October and about 7 cfs remainder of the year) diverted for irrigation and domestic use between Pollock Pines and Placerville. Water from Jenkinson Lake in North Fork Consumnes River basin diverted to Camino and substituted for flow from El Dorado Canal in some years. Since October 1962, water is imported from Upper Rubicon River basin by way of Robbs Peak tunnel (see station 11429800). See schematic diagram of South Fork American River basin elsewhere in this report.

REVISIONS (WATER YEARS).--WSP 931: 1928, 1938, 1940(M). WSP 1931: Drainage area at former site.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	968	15	1140	1200	714	628	1470	1110	993	753	819	810
2	968	52	1120	1160	741	482	1580	1340	979	791	883	746
3	944	246	1110	1150	925	636	1340	1460	923	222	857	745
4	944	85	1110	1160	940	637	1540	1380	902	118	860	278
5	920	252	1090	1280	966	656	1570	1580	398	142	853	175
6	984	165	1120	1330	676	357	1710	1560	811	597	844	802
7	884	165	1130	1310	923	692	1720	1460	776	838	219	776
8	800	416	1160	1260	883	750	1700	1230	867	836	740	764
9	920	716	1140	1290	842	798	1650	1540	832	654	847	721
10	956	670	1130	1240	870	784	1460	1540	896	243	815	727
11	932	716	1130	1220	846	1020	1570	1640	844	477	775	179
12	920	848	1130	1220	879	770	1500	1600	242	827	802	639
13	896	884	1130	1210	338	852	1360	1620	859	454	818	623
14	848	944	1110	1210	781	1080	1320	1680	900	814	215	649
15	1190	1000	1090	1200	857	904	1370	958	885	848	804	665
16	1170	896	1050	1200	854	872	1460	1350	989	408	810	674
17	1180	920	1050	1090	868	800	1370	1460	1010	189	848	473
18	1120	1850	1080	733	901	747	1670	1380	764	671	801	145
19	1140	1500	1090	721	879	778	1610	1420	83	493	820	497
20	1110	1000	1120	711	376	657	1510	1770	90	742	817	444
21	1120	800	1140	685	832	731	1470	1800	19	734	217	455
22	1140	758	1090	372	693	967	1500	1160	111	566	767	433
23	896	776	1060	364	731	995	1000	1560	166	841	678	440
24	896	920	1100	697	784	1020	1080	1560	615	263	829	194
25	252	960	1160	643	773	1090	1590	1530	957	786	802	235
26	71	900	1100	658	780	1200	1710	1500	387	804	812	226
27	83	800	1090	627	346	941	1810	1470	838	754	793	220
28	165	840	1140	493	756	1330	1760	1340	877	781	197	221
29	64	1080	1200	352	---	1330	1650	846	833	778	803	224
30	30	1160	1220	446	---	1420	1810	531	839	657	807	227
31	18	---	1190	796	---	1460	---	978	---	220	819	---
TOTAL	24529	22334	34720	29028	21754	27384	45860	43353	20694	18301	22771	14407
MEAN	791	744	1120	936	777	883	1529	1398	690	590	735	480
MAX	1190	1850	1220	1330	966	1460	1810	1800	1010	848	883	810
MIN	18	15	1050	352	338	357	1000	531	19	118	197	145
AC-FT	48650	44300	68870	57580	43150	54320	90960	85990	41050	36300	45170	28580

CAL YR 1965 TOTAL 694287 MEAN 1902 MAX 9130 MIN 15 AC-FT 1377000
WTR YR 1966 TOTAL 325135 MEAN 891 MAX 1850 MIN 15 AC-FT 644900

11443500 SOUTH FORK AMERICAN RIVER NEAR CAMINO, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	123	162	994	1100	2330	1030	1560	1650	3600	4670	1220	1030
2	212	160	1520	1080	1870	978	1030	1790	3320	4650	1220	1020
3	219	150	1920	1080	1740	970	1330	1940	3150	4390	1190	1010
4	71	227	601	1070	1500	402	1450	2310	3630	4030	1150	1030
5	45	425	1810	410	882	320	1450	2340	4110	3850	1140	1020
6	50	66	2650	105	1310	846	1660	2590	3840	3630	1100	1030
7	178	367	2180	255	1350	893	2070	2940	3840	3340	1080	1040
8	370	358	1250	1050	1330	930	1860	3520	3960	3090	1040	1030
9	71	429	1310	1030	1260	950	1340	4150	4020	2960	1030	1040
10	416	402	1190	1040	916	988	1680	4520	3880	2700	1010	1010
11	284	108	440	1020	1310	1030	1670	4040	3910	2170	1040	1010
12	284	108	990	1030	736	410	1750	3400	3820	1920	1010	1040
13	282	108	950	1070	1280	1120	1840	3200	3740	1840	998	1040
14	281	374	1010	998	1360	1120	1940	3260	3670	1840	1010	1030
15	91	437	1140	1040	1400	1110	1950	3800	3690	1780	1000	1060
16	53	552	1090	1040	1460	4340	1280	4610	3960	1740	1000	1000
17	280	663	1060	1030	1250	4750	1650	5110	4300	1930	994	986
18	284	453	624	854	1380	3400	1970	5240	4270	1820	994	1020
19	284	126	874	882	770	2800	2010	5190	4220	1700	990	1030
20	285	368	1040	910	1140	2450	1890	5520	4040	1600	978	993
21	283	724	958	1950	1340	2250	1880	6090	4320	1560	994	958
22	290	654	1010	2270	545	2180	1850	6500	4320	1460	986	923
23	102	500	1150	1590	1120	2320	1820	6160	4200	751	986	979
24	156	134	1140	1210	1230	2220	1880	5740	4170	1410	1010	866
25	154	416	1090	858	1260	2050	1850	5440	4290	1370	1010	194
26	156	128	1100	1370	573	1460	1810	5170	4230	1350	1030	194
27	158	117	1040	1880	1090	1790	1870	5010	4220	1320	1030	194
28	156	551	1110	1940	1230	1860	1810	4730	4440	1310	1010	251
29	164	1340	1140	3510	---	1900	1670	4410	3850	1270	1010	218
30	166	822	1140	3270	---	1820	1770	4240	4110	529	1000	212
31	166	---	1100	3350	---	1740	---	3990	---	983	994	---
TOTAL	6114	11429	36621	41292	34962	52427	51590	128600	119120	68963	32254	25458
MEAN	197	381	1181	1332	1249	1691	1720	4148	3971	2225	1040	849
MAX	416	1340	2650	3510	2330	4750	2070	6500	4440	4670	1220	1060
MIN	45	66	440	105	545	320	1030	1650	3150	529	978	194
AC-FT	12130	22670	72640	81900	69350	104000	102300	255100	236300	136800	63980	50500

CAL YR 1966 TOTAL 297716 MEAN 816 MAX 2650 MIN 19 AC-FT 590500
WTR YR 1967 TOTAL 608830 MEAN 1668 MAX 6500 MIN 45 AC-FT 1208000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95	1020	999	279	985	25	45	40	61	43	29	27
2	24	1010	822	665	1040	25	50	40	61	33	29	27
3	58	1010	470	807	560	25	47	40	61	33	29	26
4	136	1070	822	817	320	22	47	39	61	33	29	26
5	125	1140	1310	391	396	21	43	38	62	33	29	26
6	146	1080	1070	221	316	20	35	38	61	33	29	26
7	149	1140	1040	221	205	20	35	38	61	33	29	26
8	155	1160	1040	327	160	20	35	49	60	33	29	26
9	157	1160	1010	788	30	20	35	55	60	33	29	26
10	160	1170	508	943	30	19	34	58	61	33	29	26
11	171	1160	760	825	30	19	34	62	61	33	29	26
12	175	1180	963	819	29	19	34	62	61	33	28	26
13	179	1130	906	914	29	18	34	62	61	33	27	26
14	186	1130	873	425	29	18	34	62	61	33	27	26
15	201	1110	966	1150	29	18	34	62	61	34	27	26
16	190	1100	888	1440	29	18	34	62	60	34	27	26
17	207	1090	412	1180	29	18	35	62	60	34	27	26
18	215	1130	798	1070	29	18	36	62	60	34	27	26
19	222	1190	999	997	29	20	36	62	60	34	27	26
20	227	1110	1000	1040	29	20	35	62	61	34	26	26
21	231	1050	960	418	1090	19	35	62	60	34	26	26
22	970	1020	960	134	948	19	36	62	60	30	26	26
23	1180	1010	891	48	1140	18	36	61	60	29	26	26
24	1170	1020	422	408	1030	18	36	61	60	29	26	27
25	1050	1020	252	1030	355	18	37	61	60	29	27	27
26	1050	1030	692	970	269	18	37	61	60	29	27	27
27	951	1050	785	988	118	18	38	61	60	29	27	27
28	1040	1070	685	446	26	18	39	61	59	29	27	28
29	1130	1070	785	738	25	19	40	61	59	29	27	28
30	1060	1160	870	1010	---	20	40	61	59	29	27	28
31	1040	---	492	965	---	20	---	61	---	29	27	---
TOTAL	14050	32790	25450	22474	9334	608	1126	1728	1812	1001	855	792
MEAN	453	1093	821	725	322	19.6	37.5	55.7	60.4	32.3	27.6	26.4
MAX	1180	1190	1310	1440	1140	25	50	62	62	43	29	28
MIN	24	1010	252	48	25	18	34	38	59	29	26	26
AC-FT	27870	65040	50480	44580	18510	1210	2230	3430	3590	1990	1700	1570

CAL YR 1967 TOTAL 626956 MEAN 1718 MAX 6500 MIN 24 AC-FT 1244000
WTR YR 1968 TOTAL 112020 MEAN 306 MAX 1440 MIN 18 AC-FT 222200

11443500 SOUTH FORK AMERICAN RIVER NEAR CAMINO, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	23	11	11	11	30	60	65	290	55	33	29
2	28	16	11	11	10	30	58	65	182	37	34	29
3	28	267	11	11	10	29	57	64	938	37	34	30
4	28	11	11	11	9.2	38	57	61	727	37	34	29
5	28	11	11	11	8.7	35	57	62	503	37	34	29
6	28	11	11	11	8.7	28	57	65	522	36	34	30
7	28	11	11	11	8.7	27	57	69	260	35	34	29
8	28	11	11	11	8.7	27	56	72	90	36	34	28
9	28	11	11	11	8.7	28	55	77	85	36	34	27
10	28	11	11	11	8.7	29	55	82	84	36	34	26
11	28	11	11	11	8.7	29	55	677	81	36	35	27
12	27	11	11	11	8.5	29	56	1640	79	35	35	26
13	27	11	11	12	8.2	29	56	1470	77	35	35	26
14	27	11	11	12	21	28	57	1410	78	36	35	26
15	27	11	11	11	32	28	67	1060	79	36	35	27
16	27	11	12	11	33	28	78	995	78	36	35	27
17	27	11	12	11	34	30	77	1300	77	36	35	27
18	27	11	12	12	34	30	77	1490	74	35	35	27
19	27	11	12	12	34	30	76	1250	75	35	35	27
20	27	11	11	5890	34	30	74	910	74	35	34	27
21	27	11	11	9770	34	29	75	876	74	35	34	27
22	27	11	11	3430	34	30	76	960	74	35	34	28
23	27	11	11	631	34	30	77	1310	74	35	34	29
24	27	11	11	20	34	31	77	1340	73	35	33	29
25	27	11	12	675	35	31	76	1170	74	35	33	29
26	27	11	12	3730	34	31	74	1170	74	35	33	29
27	27	11	12	952	33	31	71	1190	74	35	28	29
28	27	11	11	20	32	31	67	910	77	35	28	29
29	27	11	11	12	---	30	66	754	81	35	28	30
30	27	11	11	12	---	30	65	218	82	34	28	29
31	27	---	11	11	---	47	---	76	---	34	28	---
TOTAL	848	603	348	25366	609.8	943	1966	22858	5210	1120	1029	841
MEAN	27.4	20.1	11.2	818	21.8	30.4	65.5	737	174	36.1	33.2	28.0
MAX	28	267	12	9770	35	47	78	1640	938	55	35	30
MIN	27	11	11	11	8.2	27	55	61	73	34	28	26
AC-FT	1680	1200	690	50310	1210	1870	3900	45340	10330	2220	2040	1670

CAL YR 1968 TOTAL 41529.0 MEAN 113 MAX 1440 MIN 11 AC-FT 82370
WTR YR 1969 TOTAL 61741.8 MEAN 169 MAX 9770 MIN 8.2 AC-FT 122500

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	47	26	16	7.1	13	15	80	69	54	41	43
2	29	47	25	16	7.1	13	15	80	70	41	41	43
3	29	47	25	16	7.1	13	15	82	72	38	42	43
4	29	41	25	16	7.1	13	14	85	74	38	42	43
5	29	32	26	17	7.1	13	15	85	77	39	42	43
6	30	30	25	17	5.0	13	18	82	79	40	43	43
7	29	28	25	17	2.7	13	50	81	79	40	43	44
8	29	28	26	17	2.7	13	101	78	76	40	42	44
9	29	28	26	17	2.7	13	114	74	76	39	42	43
10	29	28	26	17	2.7	14	93	75	77	40	42	43
11	30	27	27	16	2.7	14	92	76	77	40	42	43
12	30	27	27	17	2.4	14	93	74	76	41	42	43
13	29	27	27	17	2.6	14	95	74	73	41	42	43
14	29	27	27	19	2.5	14	94	75	71	41	42	44
15	35	27	28	19	2.4	14	92	77	69	41	41	46
16	44	27	28	5110	2.8	14	91	76	67	41	41	46
17	45	26	28	7620	3.0	14	85	79	66	41	42	46
18	44	26	28	1990	2.7	14	75	85	67	41	41	46
19	44	26	28	33	2.5	14	76	83	69	42	41	45
20	44	26	29	19	3.6	13	77	82	72	41	41	45
21	44	27	30	10200	7.0	13	75	80	76	41	42	46
22	44	27	23	11700	7.0	13	73	76	79	41	42	46
23	44	26	15	5700	6.9	14	74	73	80	41	42	46
24	44	27	16	6200	9.1	13	77	76	79	42	43	46
25	44	27	16	3500	12	13	79	80	76	42	43	46
26	45	26	15	2300	13	13	81	80	73	42	43	46
27	45	26	15	3040	12	13	82	80	73	42	43	45
28	46	26	15	2250	12	14	81	79	76	41	43	45
29	47	26	16	1000	---	14	81	73	77	42	43	46
30	47	26	16	869	---	14	80	69	74	41	43	45
31	47	---	16	29	---	14	---	69	---	41	43	---
TOTAL	1161	886	725	61814	157.5	418	2103	2418	2219	1275	1305	1336
MEAN	37.5	29.5	23.4	1994	5.63	13.5	70.1	78.0	74.0	41.1	42.1	44.5
MAX	47	47	30	11700	13	14	114	85	80	54	43	46
MIN	28	26	15	16	2.4	13	14	69	66	38	41	43
AC-FT	2300	1760	1440	122600	312	829	4170	4800	4400	2530	2590	2650

CAL YR 1969 TOTAL 62714.8 MEAN 172 MAX 9770 MIN 8.2 AC-FT 124400
WTR YR 1970 TOTAL 75817.5 MEAN 208 MAX 11700 MIN 2.4 AC-FT 150400

11444500 SOUTH FORK AMERICAN RIVER NEAR PLACERVILLE, CALIF.

LOCATION.--Lat 38°46'16", long 120°48'55", in SW¼ sec.25, T.11 N., R.10 E., El Dorado County, on right bank 700 ft downstream from Chili Bar Dam, 0.5 mile upstream from Big Canyon, and 2.5 miles north of Placerville.

DRAINAGE AREA.--598 sq mi.

PERIOD OF RECORD.--August 1911 to July 1920 (monthly discharge only for some periods, published in WSP 1315-A), July 1964 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 931.05 ft above mean sea level (levels by Pacific Gas & Electric Co.). Aug. 11, 1911, to July 31, 1920, nonrecording gage 0.6 mile downstream at different datum.

AVERAGE DISCHARGE.--9 years (1911-20, prior to extensive regulation and transbasin diversion), 1,132 cfs (820,100 acre-ft per year); 6 years (1964-70), 1,638 cfs (1,187,000 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Nov. 18, 1965	2,590	5.96	Nov. 2, 1965	52
1967	Mar. 16, 1967	9,550	9.72	Sept.26, 1967	92
1968	Feb. 21, 1968	3,800	7.04	Oct. 2, 1967, Feb. 14, 1968	90
1969	Jan. 21, 1969	18,500	12.28	Oct. 29, 1968	99
1970	Jan. 21, 1970	25,400	13.88	Sept.24, 1970	77

Period of record: Maximum discharge, 47,300 cfs Dec. 23, 1964 (gage height, 17.4 ft, from floodmarks), from rating curve extended above 18,000 cfs on basis of computations of peak flow over dam; minimum daily, 0.20 cfs Nov. 12, 1964.

REMARKS.--Flow regulated by storage, diversions, and powerplants. See schematic diagram of South Fork American River basin elsewhere in this report.

COOPERATION.--Water-stage-recorder graph and 15 discharge measurements for the water year 1967 furnished by Pacific Gas & Electric Co., in connection with a Federal Power Commission project. Records for the water years 1968-70 collected by Pacific Gas & Electric Co., under general supervision of the Geological Survey.

REVISIONS.--WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	896	126	1230	1410	584	729	1690	1260	972	824	544	850
2	925	52	1200	1280	383	696	1800	1590	960	866	869	782
3	909	112	1220	1260	693	696	1320	1620	955	509	1270	759
4	867	114	1140	1310	948	688	1560	1480	910	366	1210	475
5	847	120	1210	1800	1030	724	1660	1690	446	364	1030	360
6	913	110	1220	1800	1140	436	1700	1810	764	827	965	393
7	908	103	1220	1500	1250	699	1710	1610	796	859	257	786
8	819	215	1450	1390	1040	817	1730	1170	980	849	661	787
9	891	644	824	1350	972	854	1690	1780	795	859	569	768
10	912	690	1240	1280	1010	1020	1420	1750	927	507	856	782
11	893	653	1200	1260	951	1350	1500	1940	857	513	818	438
12	895	717	1250	1260	998	1120	1550	1690	436	857	843	449
13	910	780	1220	973	503	903	1360	1390	644	852	807	722
14	878	913	1200	1240	786	1350	1280	1460	954	853	382	808
15	1180	943	1170	1240	837	1110	1340	909	930	866	706	703
16	1140	849	1140	1240	1050	1000	1340	1100	1020	845	831	768
17	1130	1010	1160	1210	752	878	1420	1520	1020	504	869	603
18	1110	1790	1180	696	940	821	1680	1290	1020	720	640	406
19	1090	1530	1180	687	868	867	1730	1350	579	781	828	370
20	1100	975	1180	670	497	758	1330	1840	621	659	825	477
21	1080	850	1210	650	784	732	1410	1660	938	845	479	509
22	1110	830	1190	413	903	1140	1460	1220	986	836	393	506
23	909	835	1140	379	963	1210	841	1440	951	798	363	504
24	907	1040	1200	579	1010	1260	1100	1510	974	503	800	321
25	1130	1050	1490	590	988	1270	1660	1480	978	497	836	273
26	527	941	1240	606	924	1380	1820	1450	565	789	832	373
27	372	836	1510	590	527	991	1910	1430	613	753	814	302
28	259	986	1360	442	858	1610	1800	1310	941	916	482	205
29	235	1240	1820	697	---	1380	1750	852	858	753	820	208
30	150	1240	1610	689	---	1600	1680	559	962	546	574	207
31	134	---	1750	932	---	1830	---	902	---	430	861	---
TOTAL	26026	22294	39354	31423	24189	31919	46241	44062	25352	21946	23034	15894
MEAN	840	743	1269	1014	864	1030	1541	1421	845	708	743	530
MAX	1180	1790	1820	1800	1250	1830	1910	1940	1020	916	1270	850
MIN	134	52	824	379	383	436	841	559	436	364	257	205
AC-FT	51620	44220	78060	62330	47980	63310	91720	87400	50290	43530	45690	31530

CAL YR 1965 TOTAL 707880 MEAN 1939 MAX 13000 MIN 52 AC-FT 1404000
WTR YR 1966 TOTAL 351734 MEAN 964 MAX 1940 MIN 52 AC-FT 697700

11444500 SOUTH FORK AMERICAN RIVER NEAR PLACERVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	207	216	999	1100	2970	1070	1840	1880	3670	4820	1240	1450
2	207	205	1700	1070	2160	1010	1690	1960	3330	4790	1260	604
3	207	201	2350	1080	2020	994	1250	2090	3120	4630	1240	1090
4	209	201	854	1530	1720	620	1630	2420	3510	4110	1200	1100
5	209	235	2280	763	1160	467	1680	2560	4160	3890	1200	1080
6	205	215	4060	145	1150	854	2150	2880	3790	3630	1160	1110
7	204	412	2700	126	1510	942	3210	3210	3830	3380	1140	1140
8	208	383	1490	615	1350	956	2370	3700	3940	3210	1120	1100
9	209	386	1640	1050	1520	972	1820	4280	4070	3090	1130	1110
10	205	313	1230	1060	1010	986	1820	4790	3860	2790	1100	1060
11	373	211	755	1200	1380	1210	2110	4090	3830	2150	1110	1080
12	296	204	861	924	957	1050	2050	3490	3730	2000	1100	1100
13	305	204	1050	1090	1250	1450	2130	3390	3650	1800	1110	1110
14	298	206	1210	1040	1420	1310	2120	3410	3680	1820	1110	1100
15	302	179	1030	1070	1510	1330	2170	3780	3790	1790	1120	1120
16	207	567	1130	1070	1400	5290	1770	4580	4130	1770	1110	1100
17	208	648	1090	1060	1260	6400	1680	5190	4640	1980	1110	1110
18	210	397	753	902	1390	4070	2380	5330	4770	1960	1100	1110
19	312	359	883	927	885	3200	2450	5240	4380	1840	1110	1180
20	335	413	1070	1200	1150	2800	2270	5640	4220	1230	1100	1140
21	452	754	998	2950	1320	2560	2230	6330	4490	1560	1390	1100
22	541	857	1050	4040	765	2510	2190	6680	4470	1480	809	1330
23	388	684	1160	1860	1080	2690	2300	6630	4330	845	1080	1390
24	208	377	1150	1960	1220	2640	2520	6190	4230	1400	1120	1080
25	208	211	1120	961	1290	2170	2380	5920	4400	1380	1160	194
26	207	103	1120	1640	726	1760	2210	5600	4360	1360	1130	92
27	203	203	1080	2220	1090	1710	2220	5500	4340	1640	1120	99
28	203	386	1100	2240	1210	1900	2140	4980	4640	1010	1090	105
29	204	1520	1110	4700	---	2020	2000	4700	3920	1280	1100	368
30	204	899	1140	4070	---	1870	1950	4410	4120	728	1120	110
31	212	---	1090	4640	---	1930	---	4070	---	959	1230	---
TOTAL	7946	12149	41253	50303	37873	60741	62730	134920	121400	70322	35219	27862
MEAN	256	405	1331	1623	1353	1959	2091	4352	4047	2268	1136	929
MAX	541	1520	4060	4700	2970	6400	3210	6680	4770	4820	1390	1450
MIN	203	103	753	126	726	467	1250	1880	3120	728	809	92
AC-FT	15760	24100	81830	99780	75120	120500	124400	267600	240800	139500	69860	55260

CAL YR 1966 TOTAL 325408 MEAN 892 MAX 4060 MIN 103 AC-FT 645400
WTR YR 1967 TOTAL 662718 MEAN 1816 MAX 6680 MIN 92 AC-FT 1315000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	196	1050	1400	450	1170	1470	1000	1370	1240	1030	925	336
2	90	1040	1050	611	1280	1350	1050	1380	1050	1230	1140	484
3	230	1020	681	1080	864	1450	1120	1370	1170	895	633	700
4	437	1060	892	723	539	1390	1390	1380	1340	307	545	643
5	100	1130	1680	631	545	1410	1400	1310	1330	1080	823	701
6	101	1100	1140	325	541	872	1010	1360	1290	992	1020	682
7	95	1140	1340	325	438	865	574	1240	1200	315	989	608
8	304	1160	1160	325	805	1330	1020	1190	1030	855	1180	328
9	138	1160	1150	892	848	1430	1230	1200	655	692	832	569
10	366	1170	713	1270	781	1400	1390	1250	1080	937	1190	689
11	93	1160	788	983	633	1270	950	1280	1020	761	832	764
12	91	1170	1110	970	730	1560	1190	669	1290	825	1040	881
13	206	1150	1050	1060	209	533	1200	1430	689	691	982	816
14	260	1160	983	640	90	1220	1160	757	982	323	1270	839
15	248	1140	1090	1220	746	1230	1210	1250	754	757	617	322
16	330	1120	1050	1760	700	1280	1060	1250	666	1070	928	738
17	325	1110	964	1400	1630	414	1200	1250	577	770	1220	702
18	324	1150	467	1250	1550	1090	1060	1240	1030	1090	802	734
19	333	1400	1130	1170	1520	991	1030	580	1080	973	902	681
20	329	1280	1180	1180	2010	957	1030	1240	1150	910	876	363
21	329	1200	1020	894	2880	823	322	1260	987	455	890	333
22	481	1180	1070	1400	2850	989	960	1220	780	809	930	333
23	1460	1170	1030	973	2800	989	334	1380	446	880	1300	340
24	861	1170	621	355	2800	372	389	1370	924	855	620	348
25	1070	1170	414	1080	1980	792	529	1280	987	947	323	505
26	1070	1180	671	1100	1820	591	520	652	1350	971	641	363
27	1000	1490	1050	1120	1690	722	618	1260	1550	901	865	367
28	1050	905	964	615	1530	584	368	1100	1220	320	879	394
29	1130	1220	892	809	1520	516	370	1190	548	789	961	340
30	1100	1350	1050	1380	---	351	1060	472	315	940	999	467
31	1070	---	656	1020	---	557	---	1070	---	629	796	---
TOTAL	15217	34905	30456	29011	37499	30798	27744	36250	29730	24999	27950	16370
MEAN	491	1164	982	936	1293	993	925	1169	991	806	902	546
MAX	1460	1490	1680	1760	2880	1560	1400	1430	1550	1230	1300	881
MIN	90	905	414	325	90	351	322	472	315	307	323	322
AC-FT	30180	69230	60410	57540	74380	61090	55030	71900	58970	49590	55440	32470

CAL YR 1967 TOTAL 681948 MEAN 1868 MAX 6680 MIN 90 AC-FT 1353000
WTR YR 1968 TOTAL 340929 MEAN 932 MAX 2880 MIN 90 AC-FT 676200

11444500 SOUTH FORK AMERICAN RIVER NEAR PLACERVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	634	418	316	389	3450	3440	3870	3970	4370	1620	1750	329
2	647	512	926	990	3460	3010	3870	3970	4180	1710	1190	977
3	575	1720	927	964	3180	2180	3890	3970	4890	1430	828	1270
4	715	1380	1190	867	2370	2640	3680	3950	4680	1280	1050	1340
5	562	1700	898	315	3150	3020	3840	3290	4450	1920	1520	1040
6	325	1010	913	541	3190	2960	3490	3620	4480	1650	1510	1180
7	752	897	933	972	3160	2840	3450	3990	4210	1650	1670	707
8	761	863	328	1070	2780	2380	3830	4020	4050	1630	1400	1030
9	731	804	812	591	1020	1100	3390	4150	4050	1430	1490	1590
10	675	327	1200	830	2150	1820	3290	4100	4030	1420	340	1130
11	723	527	1570	879	3020	2380	3080	4540	3940	1480	970	952
12	497	974	1200	553	3780	2680	3140	5730	3500	1490	1520	1230
13	326	841	1330	2470	3000	2680	3150	5620	3480	761	1320	839
14	462	1100	1620	3880	2950	2630	3130	5580	3390	903	1610	641
15	484	661	643	1750	3640	2640	3800	5140	3140	1730	1250	845
16	656	847	968	1620	2030	892	3490	5090	3590	1340	1310	1230
17	564	335	1030	1150	2740	2040	3550	5440	3670	1500	336	1320
18	763	988	1050	997	2830	2630	3460	5680	3650	1680	1100	1130
19	524	855	1090	5190	2950	2630	3990	5460	3080	1190	1530	1210
20	402	847	1080	12300	2880	2620	4000	4980	3350	862	1400	946
21	420	836	946	15200	2830	2710	3710	4960	3310	892	1430	766
22	380	843	325	9130	2650	2600	4120	5020	2560	1220	1410	766
23	368	850	1010	5140	2390	1560	3970	5430	2760	1150	1480	1300
24	366	324	1100	4170	2920	2180	4120	5500	2610	1120	378	1270
25	692	893	1360	5760	3150	2680	4070	5270	2170	1010	898	1750
26	303	744	946	9140	3120	2780	4050	5270	2120	1460	1490	1360
27	314	749	1050	5600	2890	2860	3920	5290	1650	788	1420	1610
28	337	323	1040	4270	3050	3080	3950	5020	546	1020	1340	430
29	99	714	626	3980	---	3530	3950	4780	359	1230	1450	1050
30	118	746	1050	3870	---	3230	3970	4260	1590	1570	1230	671
31	119	---	952	3830	---	3290	---	4120	---	1380	344	---
TOTAL	15294	24628	30429	108408	80730	79712	111220	147210	97855	41516	37964	31909
MEAN	493	821	982	3497	2883	2571	3707	4749	3262	1339	1225	1064
MAX	763	1720	1620	15200	3780	3530	4120	5730	4890	1920	1750	1750
MIN	99	323	316	315	1020	892	3080	3290	359	761	336	329
AC-FT	30340	48850	60360	215000	160100	158100	220600	292000	194100	82350	75300	63290

CAL YR 1968 TOTAL 330702 MEAN 904 MAX 2880 MIN 90 AC-FT 655900
WTR YR 1969 TOTAL 806875 MEAN 2211 MAX 15200 MIN 99 AC-FT 1600000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	164	856	1100	1350	3990	761	1210	1340	2590	1750	880	1160
2	154	681	952	1200	3320	2130	1130	1170	2210	2120	602	1270
3	152	845	1130	1710	2830	2200	1260	946	2120	2030	687	739
4	270	995	970	1220	2860	2280	304	1400	2030	370	1000	874
5	329	1070	1030	1140	2750	2630	661	1790	2330	681	1110	1040
6	583	1130	1070	1670	2720	2600	1020	2330	2320	1190	1010	318
7	921	1140	315	1630	2710	1900	1000	2280	2090	1050	1150	348
8	851	1010	845	1650	1880	1030	1830	2320	2800	1540	1030	238
9	845	1020	1000	1690	1930	1090	1840	2200	2490	952	651	418
10	564	325	1110	2530	2630	1890	2050	1000	2720	1210	1160	442
11	839	340	1090	1350	2660	1940	2170	1650	2240	559	1290	430
12	519	1010	1040	1380	2670	2000	811	1890	2450	386	1070	149
13	718	958	729	2030	2810	1900	1570	1570	2280	1190	1120	139
14	794	898	315	4350	2920	1910	2140	1410	2330	1000	1230	315
15	903	755	1140	4420	1860	856	2170	2200	2330	750	1150	139
16	718	422	750	9240	2180	1530	2150	2250	1900	1050	546	315
17	934	1030	1050	11200	3510	2390	2170	940	915	692	1210	318
18	880	946	1090	6340	3390	1940	2090	1880	868	1080	1200	194
19	607	651	1240	4360	3370	2380	934	2710	862	612	1190	139
20	874	766	1930	4360	3370	1970	1590	2580	583	1000	745	398
21	1050	970	3270	15100	3050	2420	2110	2870	378	1040	1100	311
22	646	816	3800	14900	1850	523	2100	3010	1260	1050	989	123
23	777	322	2010	9380	2210	2080	1380	1790	1460	856	651	119
24	811	995	4020	9410	2670	1840	1360	964	2000	839	851	77
25	555	766	3470	7070	2480	1870	1250	1670	2460	783	1070	94
26	315	676	2290	5930	2500	1770	915	2080	2190	713	1040	106
27	707	344	1490	6420	2510	1750	1580	2190	1990	964	983	108
28	592	1140	532	5540	2500	1660	2090	2560	970	958	1020	108
29	592	707	1260	4620	---	363	2100	3350	1780	1060	1070	115
30	573	479	1710	4240	---	1720	1950	3350	1740	1050	666	130
31	607	---	1690	3580	---	1300	---	1530	---	874	1060	---
TOTAL	19844	24063	45438	151010	76130	54623	46935	61220	56686	31399	30531	10674
MEAN	640	802	1466	4871	2719	1762	1565	1975	1890	1013	985	356
MAX	1050	1140	4020	15100	3990	2630	2170	3350	2800	2120	1290	1270
MIN	152	322	315	1140	1850	363	304	940	378	370	546	77
AC-FT	39360	47730	90130	299500	151000	108300	93100	121400	112400	62280	60560	21170

CAL YR 1969 TOTAL 825869 MEAN 2263 MAX 15200 MIN 152 AC-FT 1638000
WTR YR 1970 TOTAL 608553 MEAN 1667 MAX 15100 MIN 77 AC-FT 1207000

11445500 SOUTH FORK AMERICAN RIVER NEAR LOTUS, CALIF.

LOCATION.--Lat 38°49'07", long 120°56'45", in SW¼ sec.11, T.11 N., R.9 E., El Dorado County, on left bank 0.4 mile downstream from Greenwood Creek, 2.4 miles northwest of Lotus, and 3.3 miles northwest of Coloma.

DRAINAGE AREA.--673 sq mi.

PERIOD OF RECORD.--May 1951 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 635 ft (from topographic map).

AVERAGE DISCHARGE.--11 years (1952-62, prior to extensive regulation and transbasin diversion), 1,109 cfs (802,900 acre-ft per year); 8 years (1963-70), 1,530 cfs (1,108,000 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Dec. 29, 1965	3,080	7.68	Nov. 3, 1965	74
1967	Jan. 21, 1967	14,200	11.54	Sept.27, 1967	94
1968	Feb. 21, 1968	4,280	8.34	Oct. 12, 1967	95
1969	Jan. 21, 1969	21,800	13.55	Oct. 30, 1968	111
1970	Jan. 21, 1970	32,700	15.59	Sept.24, 1970	108

Period of record: Maximum discharge, 71,800 cfs Dec. 23, 1955 (gage height, 21.37 ft); minimum daily, 50 cfs Oct. 21, 22, 1964.

Maximum stage since 1862 and prior to beginning of record, 20.4 ft, from floodmarks, Nov. 21, 1950 (discharge, 64,500 cfs).

REMARKS.--Records good. Flow regulated by storage, diversions, and powerplants. See schematic diagram of South Fork American River basin elsewhere in this report. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

REVISIONS.--WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	905	125	1220	1620	822	776	1680	1360	1020	833	380	749
2	932	119	1190	1370	505	752	1780	1540	930	888	658	664
3	917	74	1210	1300	614	747	1450	1550	936	652	819	610
4	867	115	1120	1380	1060	730	1460	1460	888	372	1180	510
5	867	121	1180	2150	1100	758	1650	1560	604	364	976	364
6	931	119	1200	2050	1820	632	1700	1840	580	694	848	356
7	932	107	1190	1680	1370	592	1720	1540	798	872	420	646
8	842	145	1410	1510	1280	854	1710	1310	944	904	227	749
9	908	506	908	1460	1110	859	1670	1640	770	880	364	756
10	924	706	1220	1390	1110	1050	1510	1710	968	604	480	721
11	908	677	1190	1340	1040	1390	1450	1910	872	430	556	568
12	912	771	1270	1330	1050	1170	1580	1700	592	864	550	368
13	918	816	1220	1020	748	989	1400	1340	440	864	550	538
14	893	961	1190	1290	660	1420	1300	1430	992	872	416	770
15	1170	989	1170	1290	876	1080	1330	1050	912	880	368	550
16	1150	889	1120	1300	1070	1060	1330	997	1040	864	505	622
17	1120	1000	1140	1280	792	907	1500	1410	1040	610	495	550
18	1120	1940	1170	723	977	867	1550	1510	1020	598	490	526
19	1110	1700	1170	721	863	902	1740	1140	721	812	416	372
20	1110	998	1170	705	731	924	1340	1780	388	622	485	380
21	1090	880	1210	667	641	652	1400	1630	1020	833	455	465
22	1100	851	1180	594	920	1140	1460	1290	1000	770	320	416
23	927	865	1140	408	972	1230	997	1320	952	805	272	470
24	938	1190	1170	470	1020	1260	1080	1490	992	604	340	425
25	1250	1120	1690	685	1050	1290	1470	1460	992	388	485	221
26	538	985	1330	644	1000	1370	1790	1430	714	728	490	360
27	465	866	1490	604	753	1120	1860	1420	380	749	586	344
28	251	989	1440	528	758	1460	1760	1300	1050	856	580	206
29	257	1230	2300	729	---	1360	1720	935	880	912	500	206
30	162	1230	1920	1010	---	1590	1660	605	944	440	480	203
31	141	---	2220	1100	---	1820	---	719	---	550	664	---
TOTAL	26555	23084	40748	34348	26712	32751	46047	43376	25379	22114	16355	14685
MEAN	857	769	1314	1108	954	1056	1535	1399	846	713	528	490
MAX	1250	1940	2300	2150	1820	1820	1860	1910	1050	912	1180	770
MIN	141	74	908	408	505	592	997	605	380	364	227	203
AC-FT	52670	45790	80820	68130	52980	64960	91330	86040	50340	43860	32440	29130

CAL YR 1965 TOTAL 719618 MEAN 1972 MAX 13700 MIN 74 AC-FT 1427000
WTR YR 1966 TOTAL 352154 MEAN 965 MAX 2300 MIN 74 AC-FT 698500

11445500 SOUTH FORK AMERICAN RIVER NEAR LOTUS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	206	207	1160	1110	3730	1090	2340	2020	3860	4810	1200	1380
2	206	198	1870	1080	2540	1020	2050	2050	3470	4680	1220	597
3	206	193	2720	1080	2280	1010	1720	2190	3220	4690	1200	1050
4	206	193	1160	1410	1860	775	1440	2460	3570	4170	1170	1060
5	200	222	2630	1070	1310	478	1840	2700	4210	3940	1160	1050
6	200	231	4800	139	1150	729	2060	3070	3970	3720	1120	1070
7	200	357	3320	125	1490	948	4340	3360	3920	3450	1120	1100
8	200	373	1870	368	1460	952	2900	3840	4030	3240	1100	1070
9	197	380	1590	1050	1530	972	2260	4380	4180	3110	1090	1080
10	191	360	1330	1050	1050	997	1900	4990	3950	2850	1060	1040
11	356	212	936	1200	1390	1270	2500	4370	3940	2130	1070	1050
12	290	202	721	896	1040	1600	2370	3630	3830	1950	1070	1070
13	294	201	1060	1070	1210	2130	2340	3570	3760	1770	1060	1070
14	283	202	1170	1030	1430	1980	2260	3560	3760	1750	1070	1060
15	293	205	1000	1070	1520	1560	2360	3870	3840	1730	1080	1080
16	201	412	1150	1060	1430	5930	1980	4510	4120	1690	1070	1060
17	200	665	1110	1060	1290	7550	1920	5220	4590	1910	1070	1070
18	201	513	777	872	1400	4530	2900	5390	4830	1900	1060	1070
19	299	376	714	896	944	3540	2980	5250	4430	1810	1060	1130
20	324	493	1050	1170	1120	3020	2680	5560	4290	1210	1060	1120
21	438	779	960	4070	1340	2730	2620	6280	4470	1520	1320	1070
22	523	1010	984	6270	864	2630	2520	6720	4500	1450	796	1310
23	372	818	1180	2200	1020	2830	2730	6740	4360	886	1040	1310
24	201	352	1180	2460	1240	2810	3120	6270	4210	1300	1070	1090
25	201	260	1160	1380	1330	2310	2850	6030	4360	1350	1120	386
26	196	98	1160	2050	859	2050	2540	5620	4390	1330	1100	104
27	194	165	1120	2770	1020	1720	2520	5580	4290	1560	1090	94
28	193	158	1120	2760	1230	1780	2380	5060	4650	1030	1050	103
29	194	1510	1130	5990	---	2090	2240	4770	4010	1240	1060	307
30	194	968	1150	5130	---	1960	2080	4500	4000	786	1080	144
31	198	---	1100	5770	---	2130	---	4170	---	841	1190	---
TOTAL	7657	12313	44382	59656	40077	67121	72740	137730	123010	69803	34026	27195
MEAN	247	410	1432	1924	1431	2165	2425	4443	4100	2252	1098	907
MAX	523	1510	4800	6270	3730	7550	4340	6740	4830	4810	1320	1380
MIN	191	98	714	125	859	478	1440	2020	3220	786	796	94
AC-FT	15190	24420	88030	118300	79490	133100	144300	273200	244000	138500	67490	53940

CAL YR 1966 TOTAL 326119 MEAN 893 MAX 4800 MIN 98 AC-FT 646900
WTR YR 1967 TOTAL 695710 MEAN 1906 MAX 7550 MIN 94 AC-FT 1380000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	192	1010	1320	424	1280	1480	991	1310	1190	862	849	312
2	107	996	1120	489	1420	1360	1050	1320	1000	1070	944	463
3	236	981	752	1080	960	1450	1110	1310	1070	978	543	664
4	415	998	811	709	623	1390	1370	1330	1320	405	756	596
5	119	1080	1760	716	537	1400	1380	1260	1260	878	714	664
6	106	1060	1150	309	567	980	1010	1290	1290	911	938	648
7	105	1080	1520	305	503	724	589	1240	1150	469	983	590
8	284	1100	1120	305	652	1520	983	1090	1020	797	936	311
9	133	1100	1130	750	860	1360	1140	1160	621	645	1030	516
10	346	1110	822	1370	885	1410	1390	1210	1050	888	849	655
11	112	1110	634	1050	537	1310	929	1230	1020	706	1070	646
12	95	1120	1110	1020	946	1020	1160	661	1140	828	970	859
13	194	1110	1060	1050	232	621	1170	1380	728	630	965	772
14	244	1110	971	759	121	1260	1130	741	944	334	1010	796
15	169	1090	1060	1470	543	1310	1160	1220	774	708	859	423
16	310	1070	1060	1950	694	1430	1030	1220	532	803	888	676
17	306	1050	1090	1460	1700	811	1130	1210	666	786	963	652
18	300	1090	323	1270	1650	1070	1040	1200	870	1130	851	683
19	312	1380	1130	1170	1760	1060	1100	639	1010	906	990	643
20	311	1260	1130	1170	2850	1010	1030	1120	1140	920	858	452
21	308	1180	1060	927	3400	884	473	1220	928	489	860	339
22	314	1130	1050	1320	3160	946	731	1180	829	672	880	312
23	1360	1120	1020	1130	2960	1030	509	1340	491	871	1030	364
24	845	1110	731	348	2990	583	316	1330	890	824	844	352
25	1040	1120	383	912	2050	673	386	1230	874	798	307	468
26	1030	1130	541	1080	1840	570	519	630	1150	915	553	330
27	946	1360	1020	1100	1740	736	522	1220	1420	897	872	331
28	1010	954	981	755	1600	626	516	1060	1410	318	817	348
29	1090	1180	848	649	1530	621	293	1150	602	692	909	336
30	1070	1360	1020	1640	---	399	894	571	305	829	967	408
31	1020	---	716	1280	---	359	---	913	---	827	805	---
TOTAL	14429	33549	30443	29967	40590	31403	27051	34985	28694	23786	26810	15609
MEAN	465	1118	982	967	1400	1013	902	1129	956	767	865	520
MAX	1360	1380	1760	1950	3400	1520	1390	1380	1420	1130	1070	859
MIN	95	954	323	305	121	359	293	571	305	318	307	311
AC-FT	28620	66540	60380	59440	80510	62290	53660	69390	56910	47180	53180	30960

CAL YR 1967 TOTAL 709779 MEAN 1945 MAX 7550 MIN 94 AC-FT 1408000
WTR YR 1968 TOTAL 337316 MEAN 922 MAX 3400 MIN 95 AC-FT 669100

11445500 SOUTH FORK AMERICAN RIVER NEAR LOTUS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	473	308	397	547	3730	4280	3880	4040	4310	1510	1690	294
2	505	515	736	873	3700	3690	3900	4040	4110	1660	1430	807
3	638	1100	910	982	3550	2970	3990	4040	4710	1570	588	966
4	586	1330	1180	939	2580	2850	3770	4040	4660	1270	911	1310
5	649	1720	611	475	3540	3290	4100	3630	4440	1640	1670	1190
6	374	1080	902	477	4170	3210	3960	3390	4520	1740	1220	1070
7	644	906	884	961	3810	3130	3560	4050	4250	1540	1670	802
8	736	857	541	1080	3160	2540	3940	4060	4070	1590	1280	869
9	700	788	614	590	1700	1650	3510	4160	4060	1420	1650	1280
10	672	361	1140	828	1990	1650	3350	4160	4040	1560	405	1320
11	692	359	1650	944	3250	2480	3110	4230	4020	1460	599	897
12	492	1050	1330	831	4360	2830	3090	5640	3610	1460	1450	936
13	386	846	1120	2730	3460	2770	3190	5500	3460	730	1260	1090
14	400	945	1920	5260	3290	2750	3160	5490	3360	857	1680	604
15	470	815	737	2150	4270	2730	3980	5090	3140	1510	1060	687
16	562	869	1240	1790	3000	1320	3420	4930	3320	1120	1540	921
17	604	451	1080	1420	2980	1730	3600	5190	3700	1440	335	1270
18	698	903	938	955	3200	2690	3480	5550	3640	1660	703	1130
19	580	861	1110	6400	3270	2680	4030	5420	3160	1250	1670	1170
20	372	837	1090	15100	3140	2690	4060	4920	3250	896	1290	1140
21	437	836	1000	18000	3100	2840	3700	4870	3310	761	1180	735
22	341	840	486	11500	2890	2740	4140	4820	2640	1020	1630	608
23	338	827	927	5930	2900	1670	4070	5220	2450	1100	1130	1090
24	371	412	1080	4740	3510	2060	4230	5430	2720	1080	673	1210
25	683	765	1820	7060	4510	2610	4150	5240	2210	973	503	1680
26	268	749	1270	11100	4100	2740	4130	5100	2080	1450	1670	1290
27	296	725	1150	6490	3500	2890	4000	5190	1910	971	1120	1560
28	307	383	1150	4900	3880	3160	4050	5050	764	691	1300	702
29	172	613	599	4420	---	3530	3950	4700	331	1180	1370	726
30	111	729	1160	4230	---	3280	4040	4330	1060	1620	1380	864
31	117	---	991	4130	---	3290	---	4090	---	1220	441	---
TOTAL	14674	23780	31763	127832	94540	84740	113540	145610	97305	39949	36498	30218
MEAN	473	793	1025	4124	3376	2734	3785	4697	3244	1289	1177	1007
MAX	736	1720	1920	18000	4510	4280	4230	5640	4710	1740	1690	1680
MIN	111	308	397	475	1700	1320	3090	3390	331	691	335	294
AC-FT	29110	47170	63000	253600	187500	168100	225200	288800	193000	79240	72390	59940

CAL YR 1968 TOTAL 329112 MEAN 899 MAX 3400 MIN 111 AC-FT 652800
WTR YR 1969 TOTAL 840449 MEAN 2303 MAX 18000 MIN 111 AC-FT 1667000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	282	901	1060	1550	3890	1370	1220	1390	2280	1660	1000	1200
2	155	459	890	1040	3340	2190	1250	1260	2180	2070	542	1260
3	150	924	1020	1760	2880	2380	1110	910	2060	2090	705	953
4	187	962	994	1270	2710	2450	541	982	1990	708	1040	990
5	304	1040	988	1130	2770	2760	637	1440	2170	667	1050	877
6	439	1220	976	1700	2730	2730	1060	1900	2150	995	764	594
7	743	1160	529	1660	2680	2190	1060	2170	1970	825	1300	251
8	913	999	703	1660	2150	1860	1470	2160	2280	1590	1060	278
9	688	889	902	1750	1880	1290	1860	2130	2350	1030	637	331
10	686	527	1150	2660	2570	2380	1940	1180	2490	1130	1060	398
11	687	313	909	1540	2650	2280	2090	1290	2270	783	1140	431
12	622	867	1230	1420	2710	2280	1280	1920	2350	405	1220	268
13	584	930	680	2130	2860	2150	1220	1800	2260	990	1060	135
14	750	861	447	5740	3190	2130	2110	1230	2250	823	1120	249
15	771	811	846	5020	2250	1060	2190	2100	2270	920	1220	191
16	873	345	920	9430	2150	1720	2150	2290	2020	1110	611	191
17	640	963	1020	13600	3920	2460	2210	1140	1250	614	995	308
18	1060	878	1060	7230	3640	2150	2130	1400	822	1100	1170	284
19	742	697	1090	4700	3480	2430	1260	2500	769	665	1170	152
20	726	760	2070	4650	3440	2140	1250	2200	565	620	707	365
21	800	855	3210	16900	3160	2460	2050	2430	320	1060	1180	307
22	860	837	4000	19500	2230	918	2040	2430	1010	1030	1020	128
23	749	373	2480	10600	2080	1850	1560	2070	1300	864	670	122
24	769	823	4760	10300	2800	1990	1350	1050	1900	792	601	108
25	526	803	3770	7740	2540	2000	1340	1160	2350	943	1200	113
26	404	646	2760	6170	2640	1890	1050	1820	2140	730	1030	115
27	510	381	1630	6780	2570	1920	1330	2010	2020	692	961	114
28	564	1050	699	5790	2580	1900	2060	2090	1280	949	982	114
29	551	666	1200	4690	---	486	2080	2560	1430	982	1040	126
30	553	413	1750	4160	---	1480	2030	2760	1800	1130	703	127
31	568	---	1720	3450	---	1580	---	1700	---	952	667	---
TOTAL	18856	23353	47463	167720	78490	60874	46928	55472	54296	30919	29625	11080
MEAN	608	778	1531	5410	2803	1964	1564	1789	1810	997	956	369
MAX	1060	1220	4760	19500	3920	2760	2210	2760	2490	2090	1300	1260
MIN	150	313	447	1040	1880	486	541	910	320	405	542	108
AC-FT	37400	46320	94140	332700	155700	120700	93080	110000	107700	61330	58760	21980

CAL YR 1969 TOTAL 859904 MEAN 2356 MAX 18000 MIN 150 AC-FT 1706000
WTR YR 1970 TOTAL 625076 MEAN 1713 MAX 19500 MIN 108 AC-FT 1240000

11446200 FOLSOM LAKE NEAR FOLSOM, CALIF.

LOCATION.--Lat 38°42'29", long 121°09'22", in NW¼NE¼ sec.24, T.10 N., R.7 E., Sacramento County, near center of dam on American River, 0.7 mile downstream from South Fork American River and 2.3 miles northeast of Folsom.

DRAINAGE AREA.--1,861 sq mi.

PERIOD OF RECORD.--February 1955 to September 1970. Prior to October 1959, published as Folsom Reservoir near Folsom.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Bureau of Reclamation).

EXTREMES.--Maximums and minimums (contents in acre-feet, elevation in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum		
Wtr yr	Date	Contents	Elevation	Date	Contents	Elevation
1966	June 15, 1966	916,800	457.66	Dec. 23, 1965	517,400	416.32
1967	July 3, 1967	1,002,600	465.33	Dec. 19, 1966	545,200	419.64
1968	Oct. 1, 1967	795,500	446.22	Aug. 19, 1968	537,600	418.75
1969	Aug. 2, 1969	895,500	455.70	Mar. 26, 27, 1969	440,000	406.48
1970	June 20, 1970	910,500	457.08	Sept.30, 1970	549,200	420.11

Period of record: Maximum contents, 1,024,400 acre-ft June 15, 1963 (elevation, 467.23 ft); minimum since storage pool first filled, 261,500 acre-ft Jan. 7, 1960 (elevation, 378.23 ft).

REMARKS.--Reservoir is formed by a concrete gravity-type dam with rolled-earth wing dams, auxiliary dams, and dikes, completed May 14, 1956; storage began Feb. 25, 1955. Total capacity, 1,010,300 acre-ft between elevations 205.5 (invert of lower tier of river outlets) and 466.0 ft (gross pool elevation), all of which is available for release. Spillway design flood pool elevation, 475.4 ft (capacity, 1,120,200 acre-ft). Records, including extremes, represent usable contents. See schematic diagram of South Fork American River basin elsewhere in this report.

COOPERATION.--Records furnished by Bureau of Reclamation and rounded to standards of Geological Survey.

REVISIONS.--WSP 1931: Drainage area.

Capacity table, water years 1966-70 (elevation, in feet, and contents, in acre-feet)

370	222,300	400	393,300	460	942,600
380	270,700	420	548,300	480	1,176,000
390	327,800	440	732,900		

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	667300	604100	581300	559000	591000	621800	653500	811900	910300	867100	778500	676200
2	663700	600700	578200	561400	591800	621800	659400	816800	911400	863600	775100	676000
3	660800	597900	574900	563100	592200	621700	664200	821700	912200	859900	772500	675500
4	658900	594700	571800	565600	593900	621100	668200	826800	912900	855600	770100	674900
5	656400	591500	568600	573900	596200	620700	672800	832000	913200	851800	768600	673300
6	653900	588100	565300	581600	604100	620000	677400	837000	912200	849100	766200	671700
7	651600	584700	561800	585600	609000	619100	682200	841100	912200	847600	762700	671000
8	648300	581600	559300	588100	612700	619600	688000	844900	913100	846400	758100	670800
9	645400	579600	555200	589800	615200	620400	694400	849200	913800	844900	753900	670600
10	642600	578400	552200	591300	617000	623900	701000	854300	914600	843500	748400	670000
11	641200	577000	549600	592300	618300	628900	708100	859800	915600	841000	742900	669200
12	639800	576200	546800	592800	619600	633500	715200	864000	916400	839400	736300	667700
13	638000	575600	543700	592500	619900	637800	721100	867300	915600	837900	729400	666900
14	636700	576000	540300	592400	619400	643700	726500	870600	916300	835300	722000	666400
15	635500	576200	536600	592500	619200	647200	731700	873300	916800	832100	714000	665800
16	634300	576200	532800	592400	618900	649100	737300	875300	916400	827600	707300	665400
17	633400	577400	529300	592300	618600	649000	743600	878000	914900	822900	700500	664600
18	632400	584400	525700	590400	618400	646800	749900	881200	911400	817300	696000	664000
19	631200	590300	522100	588500	618600	644900	755500	883700	907100	812400	693100	662900
20	630400	591400	519600	586400	618600	642700	759500	887200	901800	807600	690300	661900
21	629400	591500	518500	585700	617700	639600	763300	890300	899000	804500	687600	660900
22	628500	591300	517700	584900	617700	637200	767700	892800	897200	803100	683800	660300
23	627200	591400	517400	583900	617700	635200	770700	894800	894400	802100	681400	659600
24	625700	594800	518200	582500	619000	633400	774100	897200	891100	800200	680700	658900
25	625200	595800	523700	582000	620600	631700	779500	899400	888200	798300	680400	657700
26	623100	595600	525400	581300	621600	631100	786000	901600	884700	796500	680000	656800
27	621000	592500	527000	580800	622000	631000	792500	903600	880500	793800	679300	656100
28	618400	589500	530000	580300	621900	633300	798000	905100	877300	790900	678400	655900
29	615100	587000	538800	581200	---	637200	802700	906800	873900	788700	677100	654000
30	611500	584300	546000	586100	---	642400	807300	908000	870600	785100	676600	652700
31	607600	---	554600	589000	---	647700	---	909100	---	782100	676300	---
MAX	667300	604100	581300	592800	622000	649100	807300	909100	916800	867100	778500	676200
MIN	607600	575600	517400	559000	591000	619100	653500	811900	870600	782100	676300	652700
(†)	426.75	424.14	420.74	424.68	428.33	431.12	447.37	456.95	453.39	444.91	434.16	431.66
(‡)	-63800	-23300	-29200	+34400	+32900	+25800	+159600	+101800	-38500	-88500	-105800	-23600
(††)	3400	900	340	830	900	2040	4100	5660	7100	7220	7010	4610

CAL YR 1965 MAX 1014200 MIN 503100 ‡ -74800
WTR YR 1966 MAX 916800 MIN 517400 ‡ -18700

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.
†† EVAPORATION, IN ACRE-FEET.

11446200 FOLSOM LAKE NEAR FOLSOM, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	651500	646200	603300	564000	586200	570500	630400	658400	907400	1001000	967800	892700
2	650400	644300	613000	565700	580800	572100	630100	656100	907400	1001000	966200	890100
3	649200	642300	625400	567300	577400	573700	628200	654500	907100	1003000	964000	886400
4	648000	640300	625800	569300	574700	576000	625900	653300	908500	1002000	962100	882400
5	646900	638600	637800	571200	569800	577500	623800	652800	909600	999800	959800	878400
6	645800	638600	654000	570800	564300	579800	625600	653300	912600	998300	957200	875700
7	645700	637000	637900	570100	559800	583400	637600	655100	915600	997900	954000	871900
8	644700	635100	604400	569600	558600	587300	641700	661600	917900	998500	951200	866000
9	643700	633100	573300	570600	557500	591400	643000	671500	920600	998800	948300	859900
10	642900	630900	565400	572600	557300	595700	644600	684300	922900	999200	945000	852400
11	643200	628600	557400	574700	556500	602800	647400	693000	924200	998000	943300	844900
12	643500	626400	553500	576600	555500	614600	648500	698100	925600	997200	941900	839000
13	643500	624800	552000	578700	554100	628600	649100	701700	929000	996900	939400	832200
14	643300	623600	551200	580600	554500	633100	649100	706100	931600	996800	937200	827100
15	643800	622200	549800	582100	554300	630500	649100	711900	933900	996700	934900	823700
16	643100	622600	548400	583400	555700	667500	647800	722000	938000	996300	932800	822100
17	642600	623000	547700	584400	557200	680700	646700	735300	943200	995900	930600	819800
18	642300	621800	546200	585000	559400	661600	650800	749600	950400	996300	928400	819200
19	642800	620900	545200	585500	560500	648300	653600	762600	956700	995700	926200	818900
20	643700	623900	546700	587800	561600	631400	654800	777300	961600	993800	923200	819100
21	645000	627500	547700	627400	563100	627000	656300	795700	966800	992300	920200	818400
22	646100	628600	550100	674400	564100	629400	657100	815500	972600	990700	917500	818400
23	646100	625000	552200	679400	564400	632900	659200	834100	977700	988100	915200	818200
24	646400	618900	553100	682000	565900	635900	662900	849900	980700	985700	913300	816800
25	647200	612900	553900	680500	567800	635900	665200	863200	984200	983800	911500	814400
26	648200	606100	554500	678200	568400	634400	665700	874300	988200	982300	908600	811300
27	649400	599700	555100	675500	568800	632700	666300	884800	991800	981100	904500	807900
28	650100	593800	556500	656300	569800	631300	665600	893200	995900	978900	900800	804400
29	650400	599700	558300	664800	---	630500	663500	899200	997700	977000	898600	801000
30	650200	601600	560200	645700	---	628600	661200	903100	998300	974000	896200	798600
31	648000	---	562000	620200	---	629600	---	905300	---	970500	894100	---
MAX	651500	646200	654000	682000	586200	680700	666300	905300	998300	1003000	967800	892700
MIN	642300	593800	545200	564000	554100	570500	623800	652800	907100	970500	894100	798600
(†)	431.15	426.09	421.60	428.14	422.49	429.17	432.56	456.60	464.95	462.49	455.57	446.52
(‡)	-4700	-46400	-39600	+58200	-50400	+59800	+31600	+244100	+93000	-27800	-76400	-95500
(††)	3150	980	470	530	800	1520	1530	5050	5460	8660	7760	5300

CAL YR 1966 MAX 916800 MIN 545200 ‡ +7400
WTR YR 1967 MAX 1003000 MIN 545200 ‡ +145900

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.
†† EVAPORATION, IN ACRE-FEET.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	795500	731600	659700	551600	599700	719500	654500	687000	774100	691000	553700	545300
2	792900	728800	658900	548700	602300	713400	657000	689700	775100	686300	553000	544100
3	792400	727300	657500	547800	606900	706800	658700	692300	776200	681100	551000	543700
4	792200	724300	656800	546300	608800	700000	660900	696300	777200	674300	548700	544000
5	791500	721100	660300	544900	610600	693700	663200	698800	777400	666700	546100	544400
6	790300	718100	659100	543700	612700	686000	664500	701800	778500	660300	545600	545700
7	788800	716900	658200	541800	614700	678100	664500	704800	777200	652200	544600	545900
8	786500	715100	655800	539800	616200	672700	665100	707600	775800	645000	543200	545400
9	783600	713800	652500	539500	618300	667700	666500	710600	773100	640600	542700	544300
10	782700	712500	648600	542600	620900	662400	668900	713700	771000	635200	541700	545100
11	780500	710500	643800	544900	621600	657200	670800	716400	769400	630800	541100	546000
12	778100	708100	640100	546200	623900	652200	673300	717500	767600	626000	540000	547000
13	775600	706400	635700	546700	624200	647400	675500	720800	765500	620500	539100	548800
14	772200	704100	630800	546700	624500	645600	677000	723200	764600	614200	539000	550100
15	768000	701700	626500	555800	625000	644400	678800	726300	763000	608800	538800	549600
16	764200	698100	621400	566700	626200	644800	681200	729600	759000	604800	538600	549200
17	761300	692500	615900	571600	632800	646400	683300	733000	755300	601000	538600	550400
18	757900	686800	608800	574500	643300	647800	685000	736300	751300	598300	537800	551600
19	753700	682400	603900	576600	652700	648000	687000	738000	748300	596400	537600	552500
20	748900	679000	599000	578100	685100	648200	687900	740500	745800	593100	538600	553500
21	745200	676200	594300	578500	710000	647900	686900	744500	741400	589700	540000	553500
22	741300	673600	590400	579700	721100	647400	686200	747900	736900	586200	541000	552200
23	739400	670500	586800	581300	732200	647800	686100	751300	731500	583200	541700	551500
24	739200	667200	581700	581300	740700	647000	684800	754600	726800	580500	542400	552300
25	739000	665400	576300	582100	740800	646500	684000	757900	722800	577700	542100	551900
26	739000	663700	570800	582700	737900	647400	683700	759200	718800	573900	541400	552400
27	738300	662600	567100	584100	734300	648300	683500	761900	715300	570000	542600	552800
28	738000	661100	563800	584600	729800	649000	683500	764600	710700	565300	543700	552700
29	737700	660000	559700	584400	724500	650000	682600	768000	704300	561000	544900	552000
30	735900	660000	556700	591200	---	651000	684300	770300	696800	558000	546000	551400
31	734100	---	554100	596400	---	651900	---	772400	---	555500	546600	---
MAX	795500	731600	660300	596400	740800	719500	687900	772400	778500	691000	553700	553500
MIN	734100	660000	554100	539500	599700	644400	654500	687000	696800	555500	537600	543700
(†)	440.12	432.44	420.68	425.51	439.15	431.57	435.00	443.95	436.30	420.84	419.81	420.37
(‡)	-64500	-74100	-105900	+42300	+128100	-72600	+32400	+88100	-75600	-141300	-8900	+4800
(††)	3380	1310	480	620	800	2050	3900	4870	6690	6780	4920	4380

CAL YR 1967 MAX 1002600 MIN 554100 ‡ -7900
WTR YR 1968 MAX 795500 MIN 537600 ‡ -247200

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.
†† EVAPORATION, IN ACRE-FEET.

11446200 FOLSOM LAKE NEAR FOLSOM, CALIF.--CONTINUED

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	552200	579100	594200	596300	566500	601900	461000	584200	747000	863600	894500	875700
2	553500	582300	592000	592600	566000	600100	467600	587100	748700	866000	895500	874500
3	554800	590500	591400	591100	567800	595100	472600	589200	752500	868100	894700	872500
4	556100	593500	591200	589200	566800	587900	475500	590000	756600	869300	894500	871100
5	557300	598100	590100	586400	571300	580700	486000	591200	759800	870400	894800	870800
6	556600	601100	589200	583300	582400	573000	495200	592200	765100	872100	894300	869000
7	556400	601100	589000	581500	589000	564300	500100	596300	768300	873500	894700	866600
8	557900	602800	586600	580600	590900	554000	504300	600900	771500	875400	894400	864300
9	559400	603800	583700	578600	590100	542200	506200	607100	774600	877100	894700	862400
10	560800	602900	584100	577200	587800	529200	507700	614900	777600	879300	892800	861000
11	562700	602100	587600	577300	591500	519500	509200	623700	779200	881300	890800	858900
12	564300	604100	589600	578000	604300	512700	511900	636100	781500	882900	890400	856600
13	564500	606700	590300	597400	610700	505200	515100	644700	783600	883300	888100	653900
14	565000	608800	593900	629800	615300	497700	517800	653300	786400	883500	888200	849200
15	566900	610200	595000	637300	628400	490000	520800	659400	789000	884800	887400	846200
16	568800	610000	598600	635100	632100	479700	521800	664800	793500	885500	887800	844000
17	570900	607700	600100	628700	629700	471600	523500	671400	801600	886900	885500	842600
18	572600	606700	601000	622600	626700	469200	526700	680200	809400	888700	883600	841000
19	573900	607400	601800	668600	622000	464800	531000	687500	816200	889600	884100	839500
20	573800	607700	602900	760000	616000	461600	535000	692000	823000	889800	884300	837500
21	573900	607500	603300	789700	609300	459100	539800	696500	831200	889500	884000	833400
22	575100	607200	602600	739200	601400	455400	547100	700100	837500	889800	884300	829000
23	575400	606100	602400	658400	596800	450600	556100	706800	842900	889800	883600	827400
24	575800	603900	603900	640000	595200	445100	562700	714400	848400	889800	882200	826100
25	576200	602300	613400	647100	599700	441900	566600	721200	852800	890200	879600	826100
26	575700	602000	617800	665000	600900	440000	569400	725700	856700	891100	880100	825300
27	575200	601500	617400	634900	598000	440000	570800	730000	860100	891100	880200	823600
28	574700	599800	614300	601500	598800	441600	574100	734100	861400	890500	880000	819900
29	575800	597800	609500	589300	---	445100	577900	736700	861200	890900	880000	815700
30	576500	596700	605600	575300	---	447900	581000	739800	861700	892300	880000	813600
31	577400	---	601200	566400	---	453900	---	743400	---	893000	878100	---
MAX	577400	610200	617800	789700	632100	601900	581000	743400	861700	893000	895500	875700
MIN	552200	579100	583700	566400	566000	440000	461000	584200	747000	863600	878100	813600
(+)	423.36	425.54	426.04	422.10	425.77	408.32	423.77	441.06	452.56	455.47	454.09	447.98
(‡)	+26000	+19300	+4500	-34800	+32400	-144900	+127100	+162400	+118300	+31300	-14900	-64500
(++)	2340	960	460	220	510	1780	2750	5300	5690	7890	7500	5600

CAL YR 1968 MAX 778500 MIN 537600 ‡ +47100
WTR YR 1969 MAX 895500 MIN 440000 ‡ +262200

+ ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.
++ EVAPORATION, IN ACRE-FEET.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	810300	659400	580700	619200	607300	620200	616900	706400	838500	899500	767500	678300
2	806800	653900	580500	615600	603900	620400	618800	709100	843000	897900	763200	675500
3	803300	649400	579700	612600	602800	619200	620900	711800	847200	896000	758400	672500
4	799200	645000	578300	607400	601300	618300	622200	714300	850200	891100	755200	669100
5	794300	642700	576900	599000	599000	617200	622400	718400	854200	886400	751900	665300
6	789700	640400	574900	590300	596100	615600	625000	723600	858700	881600	748100	661700
7	787300	637000	572400	582100	593200	613200	627400	728700	861000	876800	745300	657000
8	785400	632900	569600	574100	589000	613700	630100	733400	866400	873200	742300	652400
9	781200	628800	568700	568200	585300	611600	633600	738300	872300	868900	738500	647900
10	776700	624000	568300	571100	584800	610600	637300	741900	878100	864600	735300	643600
11	770300	618600	568000	567100	585500	607600	641600	744000	883200	859000	732300	639900
12	763100	614600	568700	562100	585900	604400	643800	748100	888200	852700	729500	635800
13	755200	609600	567600	564400	589600	600700	645700	751700	892400	847000	726700	629800
14	749600	606100	565700	605900	598100	597400	650500	753900	896400	840800	723700	625000
15	745200	602300	563900	629000	600200	592200	655100	758500	899900	834700	720800	620500
16	740800	597500	563100	671900	600500	586100	659800	763800	904300	830100	716200	615700
17	737600	594000	562600	696500	611400	583200	664800	767600	906800	824500	712800	611400
18	733000	590600	562400	642700	619100	582000	669600	771300	908500	820500	709700	606800
19	727000	588900	563000	585700	624600	583200	672600	778600	910200	816000	706700	602200
20	720400	587900	578200	569400	629400	584800	675100	784400	910500	810900	702800	597900
21	715900	587500	609100	650800	633600	587300	679200	789800	909000	807300	700100	593500
22	711300	587300	626700	714400	634700	588200	683300	795700	907900	804000	697600	588800
23	706600	586300	629700	687400	634300	589200	686400	800700	905900	800400	695400	583900
24	701600	585700	663600	656000	636400	593700	688800	803300	905000	786300	696100	578900
25	696400	585300	677200	619600	631700	597700	690100	805600	905300	792800	697200	573900
26	690900	584400	676600	598800	627800	602000	690300	809800	905500	788900	697500	569100
27	685400	583200	665400	599600	623900	604800	691300	814600	905600	784700	694500	564100
28	680100	583000	650100	602000	620200	608400	695800	819100	903300	781000	691700	559200
29	674800	582100	638200	604400	---	608800	699700	825300	901100	777700	688800	554200
30	669400	581000	632300	607500	---	611100	703700	831300	900600	774300	685400	549200
31	664000	---	625200	607500	---	614000	---	834800	---	770900	680900	---
MAX	810300	659400	677200	714400	623900	620400	703700	834800	910500	899500	767500	678300
MIN	664000	581000	562400	562100	584800	582000	616900	706400	838500	770900	680900	549200
(+)	432.86	423.77	428.69	426.74	428.14	427.46	437.01	450.01	456.17	443.80	434.64	420.11
(‡)	-149600	-83000	+44200	-17700	+12700	-6200	+89700	+131100	+65800	-129700	-90000	-131700
(++)	2860	1230	470	250	950	2260	3370	5760	6150	7340	6290	5030

CAL YR 1969 MAX 895500 MIN 440000 ‡ +24000
WTR YR 1970 MAX 910500 MIN 549200 ‡ -264400

+ ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.
++ EVAPORATION, IN ACRE-FEET.

11446500 AMERICAN RIVER AT FAIR OAKS, CALIF.

LOCATION.--Lat 38°38'08", long 121°13'36", in SE¼NE¼ sec.17, T.9 N., R.7 E., Sacramento County, on right bank 2,100 ft downstream from Nimbus Dam, 2.4 miles east of Fair Oaks, 8.1 miles downstream from South Fork, and at mile 22.2.

DRAINAGE AREA.--1,888 sq mi.

PERIOD OF RECORD.--November 1904 to September 1970. Monthly discharge only for some periods, published in WSP 1315-A.

GAGE.--Water-stage recorder. Datum of gage is 71.53 ft above mean sea level. Prior to Nov. 7, 1930, nonrecording gages or water-stage recorders at several sites 2.2 miles downstream, all at datum 5.74 ft lower. Nov. 7, 1930, to Dec. 31, 1957, water-stage recorder at site 2.2 miles downstream at datum 6.74 ft lower and Dec. 31, 1957, to July 15, 1970, at present site at datum 6.00 ft higher.

AVERAGE DISCHARGE.--66 years, 3,776 cfs (2,736,000 acre-ft per year), adjusted for change in contents, diversions, and evaporation from Folsom Lake since 1955.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

Wtr yr	Maximum Date	Discharge	G.H.	Minimum daily Date	Discharge
1966	Mar. 18, 1966	4,110	3.77	Aug. 24, 1966	907
1967	Jan. 31, 1967	37,000	10.26	Oct. 24, 1966	488
1968	Mar. 8, 1968	8,350	4.20	Many days	932
1969	Jan. 23, 1969	73,400	15.64	Oct. 19, 1968	904
1970	Jan. 19, 1970	56,700	12.82	May 19, 1970	1,060

Period of record: Maximum discharge, 180,000 cfs Nov. 21, 1950 (gage height, 31.85 ft, site and datum then in use); minimum, 3.6 cfs Aug. 16, 1924. Maximum discharge since construction of Folsom Dam in 1953, 115,000 cfs Dec. 23-25, 1964 (gage height, 21.65 ft); minimum, 86 cfs Apr. 7, 1955.

REMARKS.--Records excellent. Beginning Feb. 25, 1955, flow regulated by Folsom Lake (see station 11446200). Some minor regulation of high flows by temporary pondage during period of construction January 1953 to February 1955. Diurnal fluctuations from Folsom powerplant reregulated by Nimbus Reservoir (capacity, 2,800 acre-ft between normal operating elevations 118.5 and 125.0 ft) and powerplant. Many diversions above station for irrigation, municipal, and domestic water supply. Diversions of San Juan Suburban Water District, Cordova Water Service, city of Folsom, and State of California are made at Folsom Dam. Some inflow from Bear and Yuba River basins. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

REVISIONS (WATER YEARS).--WSP 1181: 1928(M). WSP 1515: 1907(M), 1910, 1931(M), 1943(M). WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3170	1740	3370	1750	1750	1740	2440	960	954	2300	2110	916
2	2930	1740	3410	1750	1760	1750	2460	960	954	2300	2410	916
3	2500	1740	3420	1750	1760	1760	2440	960	954	2280	2420	925
4	2530	1700	3420	1740	1760	1760	2440	960	954	2250	2200	916
5	2530	1750	3420	1750	1760	1780	2440	960	954	2070	1890	925
6	2530	1720	3410	1920	1760	1800	2440	990	954	1660	1890	925
7	2320	1710	3410	2380	1780	1800	2410	954	954	1460	1960	934
8	2500	1740	3370	2380	1780	1760	1960	954	954	1430	2440	934
9	2520	1740	3390	2380	1750	1760	1480	960	954	1460	2690	943
10	2490	1720	3410	2380	1740	1760	1470	954	954	1460	3220	934
11	1900	1720	3390	2380	1750	1780	1530	936	954	1450	3240	934
12	1960	1700	3370	2390	1750	1780	1480	936	954	1420	3670	934
13	1960	1720	3350	2390	1740	1780	1500	942	954	1440	3650	943
14	2000	1750	3390	2410	1720	1860	1490	966	954	1920	3760	952
15	1940	1720	3410	2410	1740	2190	1470	960	1080	2350	3720	988
16	1930	2000	3350	2500	1750	2930	1470	960	1620	2780	3670	979
17	1930	2000	3350	2520	1760	3400	1470	960	2070	2690	3550	979
18	1960	2000	3350	2600	1750	4000	1480	954	2710	2730	2640	952
19	1960	2040	3350	2520	1740	3980	1500	948	2730	2730	2080	961
20	1980	2080	2840	2450	1750	3900	1490	948	2690	2730	1900	988
21	1980	2030	2250	1980	1750	3860	1450	948	2250	1940	1860	979
22	1980	2000	1930	1980	1760	3880	1390	960	1890	1390	1640	979
23	1940	2010	1720	2000	1760	3900	1320	966	2270	1420	1380	970
24	1980	1950	1750	2000	1780	3900	1280	954	2270	1420	907	970
25	1930	2470	1720	1870	1780	3900	1110	942	2280	1430	988	970
26	1960	2600	1710	1830	1760	3880	978	942	2280	1460	934	970
27	1960	3410	1720	1800	1740	3800	972	942	2280	1940	943	970
28	1960	3390	1670	1830	1700	2890	966	948	2280	1900	934	979
29	1960	3410	1700	1780	---	2430	966	936	2300	1920	934	979
30	1960	3390	1710	1810	---	2410	960	942	2280	1920	916	988
31	1980	---	1750	1800	---	2440	---	954	---	1900	916	---
TOTAL	67130	62690	86810	65430	49080	82560	48252	29556	48636	59550	67462	28632
MEAN	2165	2090	2800	2111	1753	2663	1608	953	1621	1921	2176	954
MAX	3170	3410	3420	2600	1780	4000	2460	990	2730	2780	3760	988
MIN	1900	1700	1670	1740	1700	1740	960	936	954	1390	907	916
AC-FT	133200	124300	172200	129800	97350	163800	95710	58620	96470	118100	133800	56790
(†)	5970	3380	2560	3010	2480	3100	4660	6420	7420	7820	7580	6330
MEAN‡	1281	1769	2365	2733	2406	3167	4438	2805	1218	726	693	742
AC-FT‡	78770	105300	145400	168000	133600	194700	264100	172500	72490	44640	42590	44130

CAL YR 1965 TOTAL 1659710 MEAN 4547 MAX 35500 MIN 1670 AC-FT 3292000 MEAN‡ 4577 AC-FT‡ 3313000
WTR YR 1966 TOTAL 695788 MEAN 1906 MAX 4000 MIN 907 AC-FT 1380000 MEAN‡ 2025 AC-FT‡ 1466000

† DIVERSION, IN ACRE-FEET, TO CORDOVA WATER SERVICE, CITY OF FOLSOM, SAN JUAN SUBURBAN WATER DISTRICT, AND TO STATE OF CALIFORNIA; FURNISHED BY BUREAU OF RECLAMATION.

‡ ADJUSTED FOR CHANGE IN CONTENTS, DIVERSIONS, AND EVAPORATION FROM FOLSOM LAKE.

11446500 AMERICAN RIVER AT FAIR OAKS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	949	1480	3320	1980	30900	2630	7570	7570	8320	8170	3490	3170
2	982	1490	4040	1980	12800	2390	7600	7540	8110	8290	3490	3150
3	982	1480	5300	2030	10300	2340	7600	7540	8050	8320	3430	3150
4	982	1450	5170	2060	8360	2010	7630	7540	7960	8260	3450	3190
5	971	1450	5570	2060	8300	1990	7570	7600	8080	8260	3550	3210
6	960	1420	8730	2060	7880	1810	7810	7600	8110	7360	3570	3230
7	971	1400	19100	2090	7760	1520	7660	7600	7900	5860	3650	4020
8	982	1450	22600	2090	6800	1520	7600	7630	8020	5100	3690	5150
9	938	1430	19200	2030	5580	1520	7600	7510	8080	5080	3730	5080
10	720	1420	9780	1800	5300	1460	7600	7540	8050	4850	3590	4980
11	730	1420	8830	1750	4990	1570	7810	7570	8080	4550	3170	5000
12	740	1400	5070	1520	4960	1630	7630	7690	8050	4020	3310	5000
13	750	1390	4110	1520	5150	2110	7600	7510	7990	4050	3310	4800
14	740	1390	3580	1500	5330	4850	7660	7480	8050	4100	3310	4050
15	740	1390	3560	1500	4520	7400	7600	7450	8110	4120	3310	3330
16	710	1400	3560	1510	3960	10000	7660	7660	8200	4020	3270	2420
17	740	1670	3580	1510	2730	24200	7600	7720	8650	3920	3230	2440
18	740	1910	3580	1510	3420	27200	7720	7630	8710	3710	3250	2420
19	740	1910	3020	1510	3420	19400	7750	7750	8620	3610	3250	1840
20	740	1910	2560	1520	3360	19100	7660	7600	8530	3630	3270	2040
21	750	2240	2240	1560	3100	12200	7810	7600	8530	3650	3290	2030
22	750	3340	1910	3060	2860	8470	7810	7570	8590	3670	3250	2060
23	740	3870	1930	7010	2880	8470	7810	7750	8440	3670	3250	2060
24	488	3890	1960	7960	2880	8380	7780	7960	8440	3650	3330	2060
25	497	3920	1960	8270	2880	8380	7600	8020	8590	3590	3330	2040
26	506	3940	1980	8580	2880	8440	7690	8140	8500	3450	3330	2040
27	515	3890	1950	10900	2860	7840	7660	7930	8500	3470	3310	2040
28	506	3870	1950	21000	2860	7660	7690	8260	8470	3550	3270	2040
29	488	3780	1960	24000	---	7600	7720	8350	8410	3650	3310	2040
30	561	3360	1960	30900	---	7690	7660	8320	8380	3650	3230	2040
31	1460	---	1980	35900	---	7630	---	8380	---	3610	3170	---
TOTAL	24068	66360	166040	194670	169020	229410	230160	240010	248520	148890	104390	92120
MEAN	776	2212	5356	6280	6036	7400	7672	7742	8284	4803	3367	3071
MAX	1460	3940	22600	35900	30900	27200	7810	8380	8710	8320	3730	5150
MIN	488	1390	1910	1500	2730	1460	7570	7450	7900	3450	3170	1840
AC-FT	47740	131600	329300	386100	335300	455000	456500	476100	492900	295300	207100	182700
(†)	5800	2920	2380	2480	2160	2640	2460	4440	5740	7770	7840	6740
MEAN‡	846	1497	4759	7275	5182	8441	8270	11870	10030	4617	2379	1668
AC-FT‡	51990	89100	292600	447300	287800	519500	492100	729700	597100	283900	146300	99240

CAL YR 1966 TOTAL 735626 MEAN 2015 MAX 22600 MIN 488 AC-FT 1459000 MEAN‡ 2169 AC-FT‡ 1570000
WTR YR 1967 TOTAL 1913658 MEAN 5243 MAX 35900 MIN 488 AC-FT 3796000 MEAN‡ 5575 AC-FT‡ 4036000

† DIVERSION, IN ACRE-FEET, TO CORDOVA WATER SERVICE, CITY OF FOLSOM, SAN JUAN SUBURBAN WATER DISTRICT, AND TO STATE OF CALIFORNIA; FURNISHED BY BUREAU OF RECLAMATION.

‡ ADJUSTED FOR CHANGE IN CONTENTS, DIVERSIONS, AND EVAPORATION FROM FOLSOM LAKE.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2040	2910	3370	2550	2100	7720	2990	2020	1460	4150	1970	946
2	2060	2910	3290	2570	2100	7690	3070	2020	1480	4020	1820	932
3	2060	2910	3470	2670	2120	7570	3050	2000	1500	4180	1900	932
4	2040	2930	3510	2590	2140	7810	3030	1540	1980	4650	2040	946
5	2060	2930	3370	2590	2140	7690	2890	1540	2000	4680	2000	946
6	2060	2910	3920	2080	2150	7810	2870	1540	2050	4680	1640	932
7	2080	2930	4720	2060	2150	7360	2870	1540	2750	4680	1640	932
8	2080	2890	4680	2080	2150	7240	2850	1400	2690	4280	1620	932
9	2080	2870	4700	2060	2140	6520	2770	1300	2710	3570	1620	946
10	2100	2870	4720	2060	2100	5980	2770	1180	2710	3530	1540	960
11	2610	2910	4680	2060	2140	6010	2770	1160	2730	3550	1520	960
12	2590	2890	4720	2080	2140	5620	2690	1160	2610	3530	1520	946
13	2590	2870	4680	2090	2140	5530	2730	1160	2490	3510	1540	960
14	2590	2930	4680	2090	2120	5100	2750	1140	2470	3510	1420	960
15	2570	3000	4700	2090	2120	5050	2690	1070	2550	3390	1310	946
16	2590	3550	4700	2090	2120	4680	2510	1060	3030	2970	1300	946
17	2630	3550	4680	2090	2150	4080	2490	932	3090	2630	1300	932
18	2790	4500	4650	2090	2200	3590	2490	932	3410	2450	1280	932
19	2790	4510	4580	2090	2470	3550	2490	932	3270	2470	1250	932
20	2610	3870	4620	2090	3310	3530	2490	932	3310	2470	1070	946
21	2490	3500	4750	2090	4900	3550	2490	932	3430	2490	946	960
22	2490	3500	4300	2100	7900	3510	2490	932	3710	2450	946	946
23	2400	3500	4020	2100	7780	3010	2490	946	3730	2510	946	932
24	2400	3500	4020	2090	7960	3010	2470	960	3550	2490	946	946
25	2400	3500	3950	2080	8230	3010	2470	960	3310	2510	946	946
26	2400	3500	4000	2090	8230	2990	2470	960	3750	2810	946	932
27	2400	3500	4000	2080	8080	3030	2470	960	3770	2850	960	932
28	2400	3500	4050	2080	8110	3030	2450	960	4100	2830	960	932
29	2400	3500	4180	2080	7990	3030	2390	960	4100	2790	960	946
30	2400	3500	3650	2100	---	3010	2020	960	4020	2380	960	960
31	2330	---	3110	2100	---	3030	---	1000	---	2090	960	---
TOTAL	73530	98640	130470	67160	113380	154340	79470	37088	87760	101100	41776	28296
MEAN	2372	3288	4209	2166	3910	4979	2649	1196	2925	3261	1348	943
MAX	2790	4510	4750	2670	8230	7810	3070	2020	4100	4680	2040	960
MIN	2040	2870	3110	2060	2100	2990	2020	932	1460	2090	946	932
AC-FT	145800	195700	258800	133200	224900	306100	157600	73560	174100	200500	82860	56130
(†)	5380	4010	2310	2400	2430	2730	4390	6600	7230	7730	7120	6710
MEAN‡	1465	2131	2532	2903	6193	3875	3333	2815	1889	1199	1399	1210
AC-FT‡	90060	126800	155700	178500	356200	238300	198300	173100	112400	73710	86000	72010

CAL YR 1967 TOTAL 1959830 MEAN 5369 MAX 35900 MIN 1460 AC-FT 3887000 MEAN‡ 5492 AC-FT‡ 3976000
WTR YR 1968 TOTAL 1013010 MEAN 2768 MAX 8230 MIN 932 AC-FT 2009000 MEAN‡ 2564 AC-FT‡ 1861000

† DIVERSION, IN ACRE-FEET, TO CORDOVA WATER SERVICE, CITY OF FOLSOM, SAN JUAN SUBURBAN WATER DISTRICT, AND TO STATE OF CALIFORNIA; FURNISHED BY BUREAU OF RECLAMATION.

‡ ADJUSTED FOR CHANGE IN CONTENTS, DIVERSIONS, AND EVAPORATION FROM FOLSOM LAKE.

11446500 AMERICAN RIVER AT FAIR OAKS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	960	932	2450	4600	10100	11700	8290	8020	6920	2100	2010	2500
2	960	932	2450	4050	9760	12300	8260	7960	6920	2100	2010	2540
3	960	932	2450	3550	8080	12300	8200	8110	6900	2100	2010	3100
4	946	946	2450	3530	8080	12300	8200	8080	6900	2100	2050	3100
5	932	946	2450	3530	8230	12200	8380	7960	6780	2100	2510	2500
6	932	1200	2450	3550	8470	12100	8350	8020	6040	2100	2540	3100
7	932	1500	2450	3510	8170	12300	8320	8020	6040	2080	2520	3100
8	918	1520	2400	3530	8110	12200	8290	8050	6120	2010	2540	3100
9	918	1520	2470	3550	8110	12300	8290	8050	6060	2010	2540	3100
10	918	1540	2450	3530	8110	12100	8260	7930	5640	1990	2500	3090
11	918	1540	2450	3510	8320	11100	8170	8050	5560	1980	2500	3090
12	918	1540	2450	3550	8350	10200	8170	7870	5120	1980	2500	3100
13	918	1540	2470	3570	8050	10200	8260	8050	5100	1980	2500	3090
14	918	1560	2470	3590	8080	10100	8140	7960	5080	2030	2480	3090
15	918	2060	2450	5200	8230	10100	8230	7960	5080	2050	2480	3090
16	918	2420	2450	7270	11300	10100	8140	7990	5020	2060	2470	3120
17	946	2440	2470	7810	11600	9010	8170	7900	3970	2060	2500	3100
18	918	2440	2440	7810	12300	7750	8170	7900	3140	2060	2470	3070
19	904	2420	2450	8200	11900	7870	8080	7900	3170	2060	2470	2990
20	932	2450	2450	28500	11700	8290	8230	7990	3100	2060	2480	3020
21	932	2440	2450	56700	11700	8110	8140	7990	2270	2050	2480	3040
22	932	2450	2490	67200	11800	8170	8170	7990	2060	2050	2480	3040
23	932	2450	2470	60200	11600	8200	8080	7600	2090	2050	2480	3040
24	932	2440	3030	26100	11700	8140	8140	7280	2090	2060	2500	3020
25	946	2420	3090	28700	11300	7990	8140	7480	2090	2060	2520	3010
26	946	2440	3310	39900	11600	8050	8140	7480	2090	2060	2520	3020
27	946	2440	4320	39100	11800	8110	7990	7300	2090	2030	2140	3090
28	946	2440	4950	33500	11800	8080	7810	7330	2100	2010	2510	3100
29	946	2440	5020	20100	---	8140	7960	7480	2120	2010	2510	3100
30	946	2450	5050	19500	---	8230	7930	7120	2120	2010	2500	3100
31	932	---	4980	15300	---	8320	---	6900	---	2010	2500	---
TOTAL	28920	56788	90180	522240	278350	306060	245100	241720	129780	63410	75220	90550
MEAN	933	1893	2909	16850	9941	9873	8170	7797	4326	2045	2426	3018
MAX	960	2450	5050	67200	12300	12300	8380	8110	6920	2100	2540	3120
MIN	904	932	2400	3510	8050	7750	7810	6900	2060	1980	2010	2500
AC-FT	57360	112600	178900	1036000	552100	607100	486200	479500	257400	125800	149200	179600
(†)	5050	3000	2450	2350	2290	2650	3320	6110	6810	7880	7580	6390
MEAN‡	1476	2284	3030	16330	10210	7588	10410	10620	6524	2812	2430	2136
AC-FT‡	90750	135900	186300	1004000	587300	466600	619300	653200	388200	179900	149400	127100

CAL YR 1968 TOTAL 886258 MEAN 2421 MAX 8230 MIN 904 AC-FT 1758000 MEAN‡ 2619 AC-FT‡ 1901000
WTR YR 1969 TOTAL 2128318 MEAN 5831 MAX 67200 MIN 904 AC-FT 4222000 MEAN‡ 6328 AC-FT‡ 4581000

† DIVERSION, IN ACRE-FEET, TO CORDOVA WATER SERVICE, CITY OF FOLSOM, SAN JUAN SUBURBAN WATER DISTRICT, AND TO STATE OF CALIFORNIA; FURNISHED BY BUREAU OF RECLAMATION.

‡ ADJUSTED FOR CHANGE IN CONTENTS, DIVERSIONS, AND EVAPORATION FROM FOLSOM LAKE.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3100	4600	2540	7450	10200	7700	2500	1500	1500	3110	3590	3550
2	3140	4600	2510	5360	10100	7550	2500	1500	1510	3650	3570	3570
3	3090	4600	2520	5140	8130	7480	2460	1500	1530	3630	3570	3550
4	3070	4600	2520	6380	7870	7520	1980	1490	1980	3500	3570	3550
5	3140	4620	2520	7450	7870	7550	1970	1490	2000	3230	3570	3570
6	3150	4640	2520	7690	7870	7480	1970	1490	1610	3630	3570	3550
7	3070	4620	2520	7660	7990	7480	1970	1490	1520	3630	3570	3570
8	3090	4620	2510	7570	7840	7480	1970	1500	1520	3630	3570	3570
9	3090	4580	2510	7600	7180	7450	1980	1500	1520	3610	3570	3570
10	3180	4480	2510	7570	6150	7580	1980	1490	1530	3600	3570	3590
11	4170	4500	2510	7630	5790	7620	1980	1470	1540	4080	3570	3590
12	4580	4500	2480	7720	5750	7580	2010	1480	1540	4100	3570	3570
13	4600	4540	2520	7690	5640	7500	2010	1480	1520	4130	3570	3520
14	4600	4500	2520	7690	5660	7500	1510	1480	1520	4130	3570	3550
15	4600	4480	2520	7720	5600	7450	1490	1480	1530	4050	3570	3570
16	4600	4580	2540	22600	5620	7420	1490	1480	1510	3590	3570	3570
17	4580	4170	2520	35400	5640	6750	1490	1470	1480	3590	3570	3570
18	4580	3650	2520	52200	5620	5550	1480	1460	1490	3610	3550	3570
19	4580	3180	2540	45200	5620	4480	1470	1060	1540	3610	3550	3550
20	4580	2670	2540	28300	5640	4200	1490	1520	1580	3610	3550	3570
21	4580	2540	2540	22800	5600	3430	1530	1550	2180	3610	3590	3630
22	4600	2510	3560	35800	5600	3140	1520	1530	2180	3610	3000	3660
23	4600	2520	5990	46100	5620	3140	1510	1510	2570	3610	2920	3650
24	4600	2540	8840	50300	5600	2640	1530	1510	2550	3610	1410	3660
25	4600	2520	10200	42900	7420	2780	2210	1510	2520	3610	1390	3660
26	4600	2520	11000	28300	7540	2920	2260	1510	2520	3610	1490	3660
27	4600	2540	12000	24600	7510	2500	1850	1520	2560	3610	3480	3660
28	4600	2540	12000	18000	7570	2460	1510	1520	3080	3610	3520	3660
29	4600	2540	10300	13300	---	2470	1500	1510	3110	3610	3530	3680
30	4600	2550	8080	10500	---	2470	1500	1510	3120	3590	3530	3700
31	4600	---	8170	10200	---	2500	---	1510	---	3610	3550	---
TOTAL	127170	112050	143070	594820	190240	171770	54620	46020	57860	113410	102770	107890
MEAN	4102	3735	4615	19190	6794	5541	1821	1485	1929	3658	3315	3596
MAX	4600	4640	12000	52200	10200	7700	2500	1550	3120	4130	3590	3700
MIN	3070	2510	2480	5140	5600	2460	1470	1060	1480	3110	1390	3520
AC-FT	252200	222300	283800	1180000	377300	340700	108300	91280	114800	224900	203800	214000
(†)	4526	3131	2808	2055	2026	2649	4455	6463	7025	7852	7719	6834
MEAN‡	1789	2415	5388	18950	7076	5520	3459	3815	3257	1795	2078	1582
AC-FT‡	110000	143700	331300	1165000	393000	339400	205800	234600	193800	110400	127800	94160

CAL YR 1969 TOTAL 2334720 MEAN 6396 MAX 67200 MIN 1980 AC-FT 4631000 MEAN‡ 6560 AC-FT‡ 4753000
WTR YR 1970 TOTAL 1821690 MEAN 4991 MAX 52200 MIN 1060 AC-FT 3613000 MEAN‡ 4760 AC-FT‡ 3449000

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11447300 DRY CREEK TRIBUTARY NEAR ROSEVILLE, CALIF.

LOCATION.--Lat 38°43'44", long 121°21'08", in NW¼NW¼ sec.17, T.10 N., R.6 E., Placer County, on left bank 5 ft upstream from road culvert and 3.7 miles southwest of Roseville.

DRAINAGE AREA.--0.39 sq mi.

PERIOD OF RECORD.--Annual maximums, water years 1960-63, 1968-70. October 1963 to September 1967.

GAGE.--Crest-stage gage. Altitude of gage is 102 ft (from topographic map). October 1963 to September 1967 water-stage recorder and tipping-bucket rain gage.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 29, 1966	29	13.59	Long periods	0
1967	Jan. 21, 1967	56	14.70	do.	0
1968	Mar. 12, 1968	27	13.49	-	-
1969	Jan. 26, 1969	61	14.86	-	-
1970	Jan. 14, 1970	52	14.55	-	-

Period of record: Maximum discharge, 220 cfs Feb. 9, 1962 (gage height, 17.00 ft), from rating curve extended above 32 cfs on basis of computation of flow through culvert and over roadway at gage heights 15.28 and 17.00 ft; no flow for several months in each year.

REMARKS.--Records good. No storage or diversion above station. Rainfall data are available in files of the district office.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEARS OCTOBER 1965 TO SEPTEMBER 1967

OCT.	13, 1965	.10
	14	.10
NOV.	17	1.0
	18	.20
	24	.40
DEC.	25	.20
	28	2.7
	29	.60
	30	1.5
	31	.40
JAN.	5, 1966	.60
	6	.10
	29	3.7
	30	3.2
	31	.10
FEB.	1	.30
	2	.10
	4	.10
FEB.	5, 1966	.20
	6	.50
	26	.40
NOV.	16	.10
	19	.80
	20	2.2
	21	1.3
	22	.20
	28	.70
	29	1.1
	30	.10
DEC.	1	1.2
	2	5.2
	3	.30
	4	3.0
	5	5.7
	6	3.8
	7	.20
JAN.	20, 1967	2.0
	21	24
	22	.90
	23	.10
	24	6.2
	25	.20
	26	1.3
	27	1.0
	28	4.9
	29	4.8
	30	5.5
	31	1.8
FEB.	1	.10
MAR.	11	.10
	12	.40
	13	.40
	14	.10
	15	.30
MAR.	16, 1967	6.7
	17	.10
	30	1.3
	31	.20
APR.	6	5.6
	7	.30
	10	.90
	11	.30
	15	.40
	17	.30
	18	.30
	19	.50
	20	.20
	21	.90
	22	.10
	29	.10
	30	.10

MONTH	CFS-DAYS	MEAN	MAXIMUM	MINIMUM	RUNOFF IN ACRE-FEET
OCTOBER 1965	.20	.007	.10	0	.4
NOVEMBER	1.60	.053	1.0	0	3.2
DECEMBER	5.40	.17	2.7	0	11
CAL YR 1965	33.70	.092	8.2	0	67
JANUARY 1966	7.70	.25	3.7	0	15
FEBRUARY	1.60	.057	.50	0	3.2
WTR YR 1966	16.50	.045	3.7	0	33
NOVEMBER	6.50	.22	2.2	0	13
DECEMBER	19.40	.63	5.7	0	38
CAL YR	35.20	.096	5.7	0	70
JANUARY 1967	52.70	1.70	24	0	105
FEBRUARY	.10	.004	.10	0	.2
MARCH	9.60	.31	6.7	0	19
APRIL	10.00	.33	5.6	0	20
WTR YR 1967	98.30	.27	24	0	195

NOTE.--FLOW OCCURRED ONLY ON DAYS AS LISTED ABOVE.

11447360 ARCADE CREEK NEAR DEL PASO HEIGHTS, CALIF.

LOCATION.--Lat 38°38'28", long 121°22'38", in Del Paso Grant, Sacramento County, on right bank 1,200 ft upstream from bridge on Interstate Highway 80 and 1.6 miles east of city limits of Del Paso Heights.

DRAINAGE AREA.--31.5 sq mi.

PERIOD OF RECORD.--July 1963 to September 1970.

GAGE.--Water-stage recorder and concrete low-water control. Datum of gage is 47.98 ft above mean sea level (levels by County of Sacramento).

AVERAGE DISCHARGE.--7 years, 17.2 cfs (12,460 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (250 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Nov. 17, 1965	2145	*625	8.94	Feb. 20, 1968	0330	*568	9.54	Feb. 18, 1969	1500	303	6.77
Dec. 29, 1965	0015	605	9.32	Feb. 21, 1968	0630	312	7.77	Feb. 23, 1969	1300	468	8.00
Jan. 30, 1966	0315	598	9.28					Feb. 24, 1969	1400	548	8.50
				Nov. 3, 1968	0930	378	7.37	Feb. 28, 1969	1630	885	10.22
Nov. 16, 1966	0500	284	7.58	Dec. 14, 1968	0430	634	8.99				
Nov. 20, 1966	0515	710	10.27	Dec. 15, 1968	1700	253	6.31	Dec. 20, 1969	1100	417	8.93
Dec. 5, 1966	2045	740	10.32	Jan. 13, 1969	0630	*1,570	12.55	Dec. 21, 1969	1400	260	7.44
Jan. 21, 1967	2330	*2,000	14.42	Jan. 19, 1969	1000	1,370	11.98	Dec. 24, 1969	1700	344	8.31
Jan. 24, 1967	1730	930	11.13	Jan. 20, 1969	0400	1,390	12.04	Jan. 14, 1970	1230	*1,600	13.19
Jan. 30, 1967	1630	674	10.06	Jan. 26, 1969	0400	1,490	12.34	Jan. 16, 1970	1100	619	10.22
Mar. 16, 1967	1100	970	10.56	Feb. 5, 1969	1200	385	7.42	Jan. 21, 1970	0630	967	11.62
Apr. 6, 1967	2400	465	7.98	Feb. 6, 1969	1000	663	9.15	Mar. 1, 1970	1430	278	7.64
				Feb. 11, 1969	2200	1,390	12.03	Mar. 4, 1970	1830	384	8.66
Jan. 30, 1968	1730	319	7.84	Feb. 15, 1969	1500	348	7.15				

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Oct. 19, 20, 1965	0	1969	Dec. 7, 1968	.28
1967	Jan. 10, 17, 19, 1967	.10	1970	Nov. 15, 16, 1969	.16
1968	Nov. 24, 26, 1967	.03			

Period of record: Maximum discharge, 2,000 cfs Jan. 21, 1967 (gage height, 14.42 ft); no flow for several days in 1963-66.

REMARKS.--Records fair. Low summer flow sustained by residential and industrial waste water.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.80	.80	.40	16	35	1.5	1.0	3.4	2.2	2.9	2.6	8.6
2	1.4	.60	.30	5.3	17	.90	1.0	2.8	1.9	2.1	3.0	3.4
3	2.2	.40	.20	3.2	6.0	.60	1.0	2.1	1.8	2.0	3.0	2.4
4	1.5	.50	.10	4.2	17	.50	1.0	2.4	2.4	2.0	3.9	2.6
5	1.5	.30	.10	62	23	.40	.60	2.8	2.4	2.3	4.7	2.2
6	.80	.20	.10	16	73	.40	1.1	1.8	1.9	2.7	4.4	2.6
7	.90	.10	.10	5.0	16	2.8	.60	2.2	1.2	2.6	4.4	2.1
8	.90	9.6	2.5	2.9	5.3	2.2	.80	2.2	1.8	3.0	4.2	1.9
9	.50	2.9	2.7	2.0	2.8	1.0	1.6	3.0	2.6	3.4	3.9	2.2
10	.50	1.2	3.0	1.5	1.9	3.0	7.0	12	2.2	3.4	3.6	2.2
11	.50	.50	7.0	1.2	1.4	1.1	1.8	4.2	2.4	3.4	3.9	2.4
12	.80	.90	35	1.2	1.1	.60	21	1.1	2.6	2.9	3.6	2.4
13	.20	7.4	3.9	1.0	.90	3.4	2.2	1.1	2.4	2.8	3.4	1.9
14	.40	100	1.8	.80	.80	1.4	.60	1.1	3.9	3.3	3.6	1.5
15	1.4	13	1.0	.70	.70	.40	.40	1.4	4.2	3.5	3.6	1.5
16	.60	7.7	.60	.60	.70	.30	.50	1.6	4.2	3.1	3.6	2.1
17	.30	130	.50	.60	.80	1.0	.60	1.1	3.2	3.6	3.0	1.9
18	.10	134	.30	.50	.60	.60	.30	1.4	2.4	3.0	3.6	1.4
19	0	18	.20	.50	16	.20	.30	1.6	2.6	2.8	3.9	.80
20	0	12	.20	.40	3.6	.30	.40	2.2	2.6	2.6	3.2	.40
21	.10	9.0	.20	.40	1.2	.10	.90	1.7	1.9	3.1	3.2	.20
22	.10	8.0	.20	.30	.70	.10	.80	1.3	1.4	3.6	3.0	.60
23	.30	15	.20	.40	4.2	.10	1.0	1.8	1.9	3.6	3.2	1.1
24	.40	119	3.6	.60	4.7	.20	1.4	2.4	2.1	3.6	2.8	1.3
25	.30	19	116	.50	6.3	.20	1.9	2.3	1.9	3.0	3.0	1.3
26	.70	4.7	14	.40	49	.40	1.3	2.7	2.6	3.4	3.2	1.4
27	.80	2.1	3.9	.30	8.2	.40	.90	3.3	2.2	3.2	2.8	1.2
28	.80	1.1	135	.30	3.0	.40	1.0	2.5	2.2	2.8	2.8	.80
29	.40	.80	241	64	------	.40	1.5	1.9	2.4	2.8	2.4	.90
30	.60	.60	104	360	------	.60	1.5	1.5	2.4	2.8	1.1	.90
31	.50	------	90	43	------	.70	------	1.9	------	2.6	1.6	------
TOTAL	20.30	619.40	768.10	595.80	300.90	26.20	56.00	74.8	71.9	91.9	102.2	56.20
MEAN	.65	20.6	24.8	19.2	10.7	.85	1.87	2.41	2.40	2.96	3.30	1.87
MAX	2.2	134	241	360	73	3.4	21	12	4.2	3.6	4.7	8.6
MIN	0	.10	.10	.30	.60	.10	.30	1.1	1.2	2.0	1.1	.20
AC-FT	40	1,230	1,520	1,180	597	52	111	148	143	182	203	111

CAL YR 1965 TOTAL 4,825.40 MEAN 13.2 MAX 709 MIN 0 AC-FT 9,570
WTR YR 1966 TOTAL 2,783.70 MEAN 7.63 MAX 360 MIN 0 AC-FT 5,520

11447360 ARCADE CREEK NEAR DEL PASO HEIGHTS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.4	118	.40	25	1.0	56	2.4	12	4.4	4.4	3.2
2	1.2	1.0	317	.60	10	.90	8.2	1.3	3.6	4.2	4.7	2.6
3	.90	1.1	180	.30	7.0	.70	3.2	1.0	1.8	3.6	4.7	2.4
4	1.1	.90	86	.30	5.3	.60	2.1	.90	1.3	3.9	4.7	2.1
5	1.0	.90	470	.40	4.4	.60	1.9	.80	1.6	3.6	4.4	2.1
6	1.4	82	416	.60	3.9	.50	165	.70	1.4	3.6	4.4	2.1
7	1.5	53	55	.40	3.1	.60	181	.90	1.5	3.4	3.6	1.9
8	1.3	8.6	13	.20	2.9	.70	15	1.1	1.3	3.6	4.2	1.9
9	1.4	2.9	7.7	.20	2.5	.60	5.0	1.0	1.5	3.6	4.2	1.9
10	1.4	1.4	24	.10	2.3	1.3	32	6.6	1.6	3.6	5.0	1.6
11	1.2	.80	7.2	.20	2.0	38	113	1.9	2.4	4.2	5.3	2.0
12	.90	.50	4.4	.20	1.7	83	13	.80	2.4	5.6	5.0	2.0
13	.60	.30	3.0	.20	1.7	75	4.4	.60	11	5.6	4.4	1.9
14	.70	.20	2.4	.20	1.4	50	2.6	.80	2.6	5.6	4.2	1.8
15	.70	20	1.9	.20	1.3	14	24	1.4	2.8	6.0	4.7	1.9
16	.80	122	1.6	.20	1.1	572	9.0	2.1	3.2	5.6	4.4	1.8
17	.70	14	1.8	.10	1.1	85	14	2.8	2.4	5.0	4.7	1.9
18	.90	4.2	1.5	.20	1.0	12	42	2.4	3.2	4.7	4.7	1.8
19	.90	100	1.4	.10	1.0	5.6	67	2.4	2.6	4.4	4.4	1.5
20	1.1	466	1.3	62	.90	3.6	25	2.6	2.6	5.6	4.4	1.3
21	1.0	225	1.1	1,020	.80	2.6	62	2.8	3.6	5.6	3.6	1.3
22	.70	116	.90	642	.70	1.9	22	3.0	2.6	5.0	3.9	1.5
23	.60	13	.90	25	.70	3.0	42	3.2	2.4	4.2	3.9	1.3
24	.80	6.0	.80	516	.70	3.6	25	3.0	3.2	3.6	3.9	1.1
25	1.1	3.2	.70	154	22	1.6	7.4	2.8	3.4	4.2	3.9	1.0
26	1.1	2.2	.60	57	6.3	1.4	3.4	2.8	3.2	4.2	3.9	1.3
27	.90	1.5	.60	100	2.2	1.0	9.6	2.4	3.4	4.7	3.6	4.4
28	1.1	59	.50	284	1.4	1.0	3.6	2.6	3.9	4.4	3.2	1.5
29	1.0	110	.40	431	------	1.9	2.1	2.6	3.9	4.2	3.2	1.5
30	1.0	21	.40	379	------	26	12	2.6	4.4	4.4	3.0	1.3
31	1.3	------	.40	184	------	76	------	2.1	------	4.4	3.4	------
TOTAL	31.60	1,438.10	1,720.50	3,859.10	114.40	1,065.70	972.5	64.40	96.8	138.7	130.0	55.9
MEAN	1.02	47.9	55.5	124	4.09	34.4	32.4	2.08	3.23	4.47	4.19	1.86
MAX	1.5	466	470	1,020	25	572	181	6.6	12	6.0	5.3	4.4
MIN	.60	.20	.40	.10	.70	.50	1.9	.60	1.3	3.4	3.0	1.0
AC-FT	63	2,850	3,410	7,650	227	2,110	1,930	128	192	275	258	111

CAL YR 1966 TOTAL 4,566.10 MEAN 12.5 MAX 470 MIN .10 AC-FT 9,060
WTR YR 1967 TOTAL 9,687.70 MEAN 26.5 MAX 1,020 MIN .10 AC-FT 19,220

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	.38	16	.61	8.4	1.2	16	2.3	2.7	3.1	2.7	2.2
2	1.8	.43	2.7	.48	9.5	1.1	6.7	2.5	3.3	3.1	2.9	2.2
3	10	.54	1.8	.90	5.6	.99	1.3	2.9	3.1	3.1	2.5	2.2
4	2.0	.43	23	4.2	2.5	.99	.89	2.2	2.9	4.1	3.1	1.8
5	1.8	.33	42	3.4	2.0	1.1	.61	2.3	2.3	3.9	4.1	2.0
6	1.1	.38	6.9	.33	1.3	.89	.70	2.7	2.5	4.4	2.7	2.2
7	.48	.28	24	.48	1.1	12	.70	2.3	4.1	4.1	2.7	1.8
8	.33	.38	10	.54	1.1	95	.70	1.6	3.3	3.1	2.7	2.2
9	.43	.16	2.0	4.0	.89	12	.79	3.1	2.7	3.1	2.7	1.8
10	.70	.13	1.1	106	.79	3.9	1.3	2.7	2.9	3.5	2.7	1.3
11	.70	.16	.61	19	.79	2.3	1.3	2.9	2.5	3.3	2.7	1.2
12	.48	.16	.38	3.9	.70	9.5	1.3	2.7	2.5	3.3	2.3	1.8
13	.38	.16	.23	1.8	.70	134	1.1	6.6	2.9	2.9	1.8	1.8
14	.43	14	.16	13	.48	80	1.3	12	3.3	2.9	1.3	.99
15	.13	3.1	.10	130	.43	24	1.3	2.5	3.7	2.9	2.0	.89
16	.54	.79	.10	22	15	76	.99	1.6	3.7	3.3	2.7	.70
17	.61	.43	.16	5.1	59	24	.89	2.3	3.5	3.5	2.0	.48
18	.61	.38	7.9	2.3	16	6.2	.89	2.5	3.9	3.9	2.0	.89
19	.54	16	2.7	1.8	41	3.9	1.1	3.1	3.9	3.7	3.5	.61
20	.70	2.5	1.1	1.1	289	2.5	1.3	2.7	3.9	3.7	4.4	.48
21	.61	.70	.70	.99	157	1.6	1.2	2.3	3.7	3.1	1.3	.43
22	.43	.16	.61	.79	20	1.2	1.2	2.2	3.3	2.9	.89	.43
23	.61	.04	.43	.79	22	1.1	1.6	2.3	3.5	3.1	1.2	.61
24	.54	.03	.48	.54	11	.89	1.5	2.5	3.3	2.9	1.8	.61
25	.54	.04	.33	.43	4.6	.99	1.8	2.3	3.3	3.1	2.2	.61
26	.61	.03	.38	.38	3.1	.99	1.8	2.7	3.3	3.5	1.3	1.3
27	.61	1.5	.38	.33	2.3	.79	1.6	3.1	3.1	3.1	1.6	1.3
28	.54	10	.38	.23	1.6	.79	2.7	3.1	3.3	2.9	1.6	2.0
29	.48	16	.28	.23	1.3	1.1	4.4	3.3	2.5	2.3	2.2	3.3
30	.38	42	.19	199	------	1.3	2.9	3.1	1.5	2.7	2.5	2.0
31	.38	------	.38	68	------	1.2	------	3.3	------	2.5	2.5	------
TOTAL	30.69	111.62	147.48	592.65	679.18	503.52	61.86	93.7	94.4	101.0	72.59	42.13
MEAN	.99	3.72	4.76	19.1	23.4	16.2	2.06	3.02	3.15	3.26	2.34	1.40
MAX	10	42	42	199	289	134	16	12	4.1	4.4	4.4	3.3
MIN	.13	.03	.10	.23	.43	.79	.61	1.6	1.5	2.3	.89	.43
AC-FT	61	221	293	1,180	1,350	999	123	186	187	200	144	84

CAL YR 1967 TOTAL 6,787.29 MEAN 18.6 MAX 1,020 MIN .03 AC-FT 13,460
WTR YR 1968 TOTAL 2,530.82 MEAN 6.91 MAX 289 MIN .03 AC-FT 5,020

11447360 ARCADE CREEK NEAR DEL PASO HEIGHTS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	1.2	2.0	1.1	5.2	321	1.7	1.9	3.1	4.0	3.3	3.5
2	1.7	23	.88	.95	4.4	49	2.0	2.0	3.0	3.4	3.1	3.5
3	3.7	229	.74	.88	4.3	40	6.3	2.3	2.8	3.8	3.2	3.7
4	2.6	30	.67	.88	3.9	10	2.4	2.3	3.1	3.5	3.4	3.3
5	2.5	4.0	.48	.95	227	6.3	124	2.4	3.2	3.4	3.2	3.1
6	2.7	2.0	.33	.74	443	4.7	47	2.6	2.8	3.2	3.5	3.0
7	2.6	1.5	.28	.88	41	4.2	6.7	2.5	2.6	3.8	4.2	3.2
8	1.8	1.2	.88	.88	11	3.4	3.8	2.2	3.0	3.9	5.0	2.4
9	1.6	1.1	.95	.60	47	4.5	3.1	2.3	2.8	3.4	4.9	3.1
10	1.9	1.0	26	.60	17	13	2.8	3.2	2.6	3.2	4.6	3.8
11	2.2	1.1	34	123	455	4.6	2.6	3.4	3.1	3.1	4.4	3.9
12	39	26	2.6	93	424	20	2.5	2.7	3.2	2.6	4.2	3.9
13	12	3.9	17	1,280	26	8.8	2.3	1.9	3.9	2.6	4.3	3.8
14	4.7	8.7	301	261	58	3.7	2.3	1.7	3.3	2.7	4.9	3.3
15	4.3	50	93	18	250	3.0	2.2	2.3	3.7	2.0	4.4	3.2
16	1.9	5.9	52	6.7	65	3.0	2.1	2.6	8.1	2.6	4.4	2.3
17	1.2	1.8	4.6	3.9	15	6.8	2.3	3.0	10	2.8	4.4	2.8
18	1.2	38	2.0	300	182	3.7	2.1	3.3	4.2	3.4	4.0	1.4
19	1.1	14	1.4	1,110	71	2.5	2.4	2.6	4.4	3.1	3.2	2.1
20	1.0	2.1	5.8	1,150	25	9.2	2.4	2.6	4.3	3.0	3.8	2.2
21	1.6	1.2	1.8	551	11	18	3.0	3.2	4.0	3.0	4.0	2.0
22	1.3	.81	2.1	209	7.3	3.5	3.1	2.8	4.2	3.3	3.9	2.5
23	.95	.60	4.8	27	260	2.5	78	3.0	4.4	3.2	3.7	2.4
24	1.2	2.7	61	172	362	2.2	13	2.5	4.9	3.2	3.0	2.5
25	1.7	1.7	126	860	384	1.9	2.6	2.8	4.6	2.6	2.6	2.5
26	1.7	.81	49	759	87	1.8	2.0	2.8	4.6	2.8	2.8	2.7
27	2.0	.48	5.7	41	21	1.8	2.1	2.3	5.0	3.3	3.2	3.0
28	1.7	.43	8.1	20	470	1.8	2.5	2.4	4.2	3.1	3.4	3.1
29	2.8	.54	4.3	10	------	2.1	2.3	2.8	3.8	3.0	3.5	3.7
30	4.0	4.7	2.0	22	------	2.0	2.3	3.0	3.9	3.2	3.3	2.4
31	2.0	------	1.3	8.6	------	2.0	------	3.0	------	2.8	3.4	------
TOTAL	112.65	459.47	812.71	7,033.66	3,977.1	561.0	333.9	80.4	120.8	97.0	117.2	88.3
MEAN	3.63	15.3	26.2	227	142	18.1	11.1	2.59	4.03	3.13	3.78	2.94
MAX	39	229	301	1,280	470	321	124	3.4	10	4.0	5.0	3.9
MIN	.95	.43	.28	.60	3.9	1.8	1.7	1.7	2.6	2.0	2.6	1.4
AC-FT	223	911	1,610	13,950	7,890	1,110	662	159	240	192	232	175

CAL YR 1968 TOTAL 3,625.86 MEAN 9.91 MAX 301 MIN .23 AC-FT 7,190
WTR YR 1969 TOTAL 13,794.19 MEAN 37.8 MAX 1,280 MIN .28 AC-FT 27,360

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	.60	.28	1.8	3.9	154	1.9	2.5	4.6	4.4	2.5	3.5
2	1.8	.67	.48	1.6	3.0	43	2.6	3.2	4.7	5.0	2.1	3.4
3	1.0	.81	.43	1.5	2.6	6.6	2.6	3.7	4.9	5.7	2.1	3.7
4	.48	.81	.54	1.4	2.4	144	2.6	3.8	4.9	6.1	2.0	3.8
5	1.1	74	.54	1.3	2.2	94	3.2	3.0	4.4	5.5	1.9	2.7
6	2.0	25	.33	1.3	2.0	10	3.4	2.0	3.4	5.7	2.2	2.2
7	1.6	4.7	.28	1.6	1.8	5.2	2.7	2.5	3.5	5.5	2.5	2.8
8	1.2	2.5	6.2	16	1.5	95	2.5	3.1	4.4	5.7	2.1	3.5
9	1.0	1.3	3.7	76	1.2	15	2.5	2.6	12	4.6	1.9	3.5
10	1.2	.74	13	95	1.1	10	3.1	3.1	5.5	3.8	2.1	3.5
11	1.0	.60	19	11	1.2	4.6	2.6	2.6	2.0	3.7	2.2	3.3
12	1.0	.48	6.0	8.5	12	3.1	3.0	2.5	1.9	4.3	2.4	3.3
13	2.8	.33	4.8	50	54	2.7	5.5	2.5	2.4	4.0	2.8	2.2
14	1.9	.19	2.1	879	24	2.3	11	2.9	2.4	4.2	3.0	2.3
15	36	.16	1.5	109	4.7	2.1	3.0	3.5	2.8	4.0	2.6	2.5
16	34	.16	1.2	378	9.6	1.9	1.8	4.3	3.2	3.8	2.7	2.2
17	6.2	.19	.74	149	46	1.7	1.6	3.9	3.3	4.0	2.7	2.6
18	2.1	.19	2.4	25	7.8	1.4	1.5	2.7	3.7	4.3	2.7	2.8
19	1.0	.19	90	20	2.8	1.3	1.9	2.2	4.3	3.9	2.5	2.5
20	.67	.23	226	69	1.7	1.4	2.2	2.1	4.7	4.0	2.5	1.8
21	.60	.19	138	701	1.3	1.6	2.1	3.2	4.7	3.4	2.8	1.9
22	.60	.33	32	94	1.2	2.0	2.1	3.2	4.7	3.5	3.2	2.1
23	.67	.38	42	26	1.2	2.3	2.6	3.2	5.0	3.7	2.6	2.5
24	.38	.43	219	109	1.7	2.3	2.6	3.3	4.9	3.7	3.4	3.0
25	.19	.33	103	15	1.6	2.3	2.3	3.8	5.2	3.3	3.9	1.8
26	.33	.28	20	8.0	1.5	2.0	3.5	3.3	4.2	2.6	3.0	2.1
27	.74	.38	6.3	139	1.6	2.2	4.2	3.0	3.4	3.0	3.4	2.6
28	3.2	.33	3.5	19	9.1	2.3	3.0	3.1	3.1	2.7	3.7	2.8
29	4.2	.43	2.7	7.0	------	2.4	1.8	3.4	3.3	2.6	3.7	2.5
30	6.0	.38	2.5	7.0	------	1.8	2.1	3.0	3.8	4.4	3.3	2.5
31	6.8	------	2.1	5.0	------	1.8	------	3.1	------	2.7	3.3	------
TOTAL	123.46	117.31	950.62	3,026.0	204.7	622.3	87.5	94.3	125.3	127.8	83.8	81.9
MEAN	3.98	3.91	30.7	97.6	7.31	20.1	2.92	3.04	4.18	4.12	2.70	2.73
MAX	36	74	226	879	54	154	11	4.3	12	6.1	3.9	3.8
MIN	.19	.16	.28	1.3	1.1	1.3	1.5	2.0	1.9	2.6	1.9	1.8
AC-FT	245	233	1,890	6,000	406	1,230	174	187	249	253	166	162

CAL YR 1969 TOTAL 13,600.75 MEAN 37.3 MAX 1,280 MIN .16 AC-FT 26,980
WTR YR 1970 TOTAL 5,644.99 MEAN 15.5 MAX 879 MIN .16 AC-FT 11,200

11447500 SACRAMENTO RIVER AT SACRAMENTO, CALIF.
(International Hydrological Decade River Station)

LOCATION.--Lat 38°35'12", long 121°30'16", Sacramento County, on left bank 1,000 ft upstream from I Street Bridge in city of Sacramento and 0.5 mile downstream from American River.

DRAINAGE AREA.--23,508 sq mi (revised).

PERIOD OF RECORD.--January 1904 to July 1905 (gage heights only), June to November 1921, October 1948 to September 1970. Gage heights collected in this vicinity November 1879 to May 1888 and December 1890 to September 1963 are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Prior to Oct. 15, 1912, nonrecording gage in vicinity of I Street Bridge. Oct. 15, 1912, to Nov. 16, 1956, water-stage recorder at various sites in vicinity of I Street Bridge. Prior to Nov. 16, 1956, datum of gages at low-water mark of Oct. 23, 1856, 0.12 ft above mean sea level. Auxiliary water-stage recorder on right bank 10.8 miles downstream near Freeport.

AVERAGE DISCHARGE.--22 years (1948-70), 23,590 cfs (17,090,000 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 10, 1966	53,700	16.81	June 15, 1966	8,120
1967	Jan. 31, 1967	90,900	27.40	Oct. 29, 1966	8,610
1968	Feb. 29, 1968	66,800	20.80	June 3, 1968	9,780
1969	Jan. 21, 1969	95,500	28.18	Oct. 9, 10, 1968	10,300
1970	Jan. 24, 1970	94,100	28.24	June 3, 1970	10,100

Period of record: Maximum discharge, 104,000 cfs Nov. 21, 1950 (elevation, 30.14 ft, site and datum then in use); minimum daily, 5,590 cfs July 20, 1949.

Maximum discharge prior to Nov. 21, 1950, 103,000 cfs Jan. 17, 1909 (elevation, 29.6 ft, present datum), from reports of California Department of Water Resources.

REMARKS.--Records good. Natural flow of stream affected by storage reservoirs, power developments, diversions for irrigation, and return flow from irrigated areas. A portion of the flow bypasses station during flood periods through Yolo Bypass (see station 11426000, 11453000). Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

COOPERATION.--Records collected and prepared in cooperation with California Department of Water Resources.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15,400	14,100	23,300	31,000	31,200	23,300	26,500	12,600	9,610	10,300	12,200	12,600
2	15,200	14,400	20,900	29,300	30,800	22,000	27,700	12,200	9,290	10,000	12,500	12,700
3	14,200	14,600	19,500	28,000	31,600	20,800	28,500	12,000	9,140	10,300	12,500	12,300
4	14,000	14,400	19,100	26,800	32,800	18,700	28,500	12,600	9,050	10,500	12,200	12,200
5	14,200	14,300	20,600	27,600	32,900	17,600	27,600	13,200	9,140	10,800	11,600	11,700
6	13,700	14,000	21,700	37,200	35,900	16,700	26,300	14,300	9,390	10,700	11,600	11,600
7	12,800	13,800	22,100	43,600	38,600	16,400	25,400	15,100	9,610	10,600	11,500	11,700
8	13,700	13,800	22,200	47,100	39,900	16,600	24,200	15,500	9,750	10,400	12,200	11,800
9	13,700	14,000	22,200	51,300	39,700	16,900	23,200	15,900	10,000	10,600	12,200	11,800
10	13,900	14,000	22,600	53,600	36,700	17,800	22,500	15,400	10,000	10,700	12,700	11,500
11	13,500	14,000	22,900	52,700	32,700	19,700	25,900	17,600	9,990	11,100	12,900	11,800
12	13,200	14,100	23,000	49,600	29,400	23,100	28,900	19,500	9,610	11,200	13,200	11,300
13	13,100	14,600	23,300	45,200	27,000	25,100	29,900	20,300	9,120	11,000	13,300	11,300
14	13,000	15,300	23,500	40,900	24,500	25,600	28,600	19,400	8,480	11,500	13,700	10,900
15	12,900	17,100	23,600	37,200	22,600	27,900	24,100	18,900	8,120	12,000	13,700	10,900
16	13,300	20,800	23,200	34,800	21,600	28,300	21,700	18,300	8,470	13,000	14,000	10,700
17	13,700	26,100	23,100	33,500	20,600	28,900	20,100	17,300	8,670	13,000	14,000	10,700
18	13,900	25,400	22,800	32,500	19,800	27,900	19,900	16,100	9,360	13,200	13,300	10,300
19	14,300	28,600	22,600	31,600	19,300	26,700	20,700	15,200	9,720	13,400	12,400	10,700
20	14,400	31,300	22,600	30,600	18,700	26,600	20,200	14,600	9,860	13,200	12,000	10,500
21	14,600	28,900	21,700	29,600	19,700	26,400	18,600	13,700	9,990	12,800	11,800	10,300
22	14,700	26,100	21,000	29,000	20,400	27,500	16,400	13,200	9,650	12,100	11,900	10,200
23	14,400	24,400	20,600	28,500	19,800	27,600	15,200	12,500	9,780	12,000	11,500	10,100
24	14,200	23,400	20,400	28,100	19,000	26,800	14,700	12,000	10,100	12,200	11,200	10,000
25	13,900	23,800	20,600	27,600	19,900	25,900	14,000	11,600	10,200	12,100	11,200	9,950
26	13,800	25,500	22,200	27,500	21,800	25,800	13,700	10,800	10,500	11,400	11,000	9,890
27	13,900	26,800	22,400	27,500	24,100	25,600	15,000	10,400	10,400	11,500	11,300	9,910
28	14,000	26,300	22,100	26,800	25,200	25,000	15,900	10,400	10,200	11,500	11,500	9,750
29	14,200	26,000	24,200	26,100	------	24,900	14,400	10,300	10,200	11,800	11,800	9,680
30	14,200	25,400	29,700	26,700	------	25,500	13,200	9,810	10,100	11,900	11,800	9,680
31	14,200	------	31,200	29,100	------	26,500	------	9,640	------	12,300	12,300	------
TOTAL	432,200	605,300	700,900	1,070.6M	756,200	734,000	651,500	440,350	287,500	359,100	381,000	328,460
MEAN	13,940	20,180	22,610	34,540	27,010	23,680	21,720	14,200	9,583	11,580	12,290	10,950
MAX	15,400	31,300	31,200	53,600	39,900	28,900	29,900	20,300	10,500	13,400	14,000	12,700
MIN	12,800	13,800	19,100	26,100	18,700	16,400	13,200	9,640	8,120	10,000	11,000	9,680
AC-FT	857,300	1,201M	1,340M	2,124M	1,500M	1,456M	1,292M	873,400	570,300	712,300	755,700	651,500

CAL YR 1965 TOTAL 9,934,100 MEAN 27,220 MAX 92,400 MIN 11,500 AC-FT 19,700,000
WTR YR 1966 TOTAL 6,747,110 MEAN 18,490 MAX 53,600 MIN 8,120 AC-FT 13,380,000

M EXPRESSED IN THOUSANDS.

11447500 SACRAMENTO RIVER AT SACRAMENTO, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9,330	10,000	39,700	24,000	90,100	27,100	40,100	55,600	54,800	31,200	14,700	16,400
2	9,420	10,200	40,900	23,500	81,900	27,000	42,100	53,700	52,500	30,700	14,800	16,600
3	9,060	10,100	48,100	22,700	76,400	26,300	42,700	51,500	50,100	29,900	14,700	16,700
4	9,490	10,300	55,300	21,900	72,800	25,500	41,700	49,000	47,900	29,000	14,400	17,000
5	9,570	10,700	59,400	21,600	70,800	25,100	39,900	46,800	46,600	27,900	14,900	17,300
6	9,720	11,500	66,400	21,100	69,100	24,000	39,200	45,100	46,100	25,500	15,000	17,400
7	9,290	11,300	73,000	20,400	67,800	22,500	44,200	43,400	46,100	23,600	14,900	18,000
8	9,190	12,300	77,300	19,300	66,300	22,200	50,100	42,500	46,300	21,700	15,000	19,800
9	9,540	12,900	76,000	18,800	64,500	22,000	52,000	43,400	46,100	20,000	14,900	20,300
10	9,300	12,600	68,800	18,000	62,900	21,400	51,600	45,600	45,300	18,600	14,900	20,400
11	9,380	12,300	65,200	17,700	60,800	21,300	51,500	48,200	44,900	17,900	14,500	20,500
12	9,500	12,100	63,200	17,200	58,400	24,500	51,600	49,900	44,500	18,200	14,600	21,200
13	9,050	12,100	60,900	16,700	55,700	27,100	51,000	49,200	44,300	18,100	14,900	21,600
14	9,080	11,900	58,200	16,500	52,600	32,400	49,500	46,900	44,700	18,000	14,900	21,100
15	9,100	12,700	54,500	16,500	49,500	35,800	48,500	44,800	44,200	17,800	15,000	20,700
16	9,070	14,100	50,800	16,400	45,800	37,700	48,100	44,100	43,400	17,600	14,700	19,600
17	9,110	18,600	46,700	16,400	42,700	57,100	47,800	45,300	43,300	16,700	14,600	19,400
18	9,090	20,000	42,000	16,100	39,800	76,700	47,900	47,500	43,700	16,200	14,500	19,600
19	9,040	18,600	37,800	16,100	37,800	76,300	50,200	50,100	43,800	16,700	14,600	19,700
20	9,080	18,900	34,500	15,600	36,000	75,000	52,600	52,000	43,700	16,400	14,700	18,800
21	9,000	26,300	32,800	22,000	34,300	71,100	54,700	53,700	43,300	16,100	15,000	17,900
22	9,140	35,200	31,000	48,700	33,700	63,800	56,300	55,700	41,800	16,200	15,000	18,400
23	8,890	35,900	30,600	66,600	31,400	60,500	56,500	57,800	40,600	16,200	15,200	18,200
24	8,850	32,500	31,700	70,300	30,800	58,300	56,500	59,900	38,900	15,500	15,100	17,900
25	8,720	29,800	30,800	70,200	29,800	57,200	56,800	61,500	36,400	15,300	15,200	17,700
26	8,800	27,100	29,700	68,200	29,800	55,200	57,500	62,700	34,700	15,200	15,600	17,400
27	8,800	25,400	28,300	67,300	28,900	51,700	57,800	63,000	34,100	15,900	15,600	17,100
28	8,710	24,800	27,100	73,300	28,200	47,100	57,700	62,500	33,200	15,800	16,000	17,000
29	8,610	25,400	26,800	79,300	------	43,400	57,600	61,400	33,400	15,800	16,100	17,000
30	8,690	32,300	26,300	86,100	------	41,000	57,000	59,700	32,000	15,500	16,300	16,500
31	9,290	------	25,400	90,700	------	39,500	------	57,400	------	15,000	16,300	------
TOTAL	282,910	557,900	1,439.2M	1,119.2M	1,448.6M	1,295.8M	1,510.7M	1,609.9M	1,290.7M	604,200	466,600	557,200
MEAN	9,126	18,600	46,430	36,100	51,740	41,800	50,360	51,930	43,020	19,490	15,050	18,570
MAX	9,720	35,900	77,300	90,700	90,100	76,700	57,800	63,000	54,800	31,200	16,300	21,600
MIN	8,610	10,000	25,400	15,600	28,200	21,300	39,200	42,500	32,000	15,000	14,400	16,400
AC-FT	561,200	1,107M	2,855M	2,220M	2,873M	2,570M	2,996M	3,193M	2,560M	1,198M	925,500	1,105M

CAL YR 1966 TOTAL 7,288,720 MEAN 19,970 MAX 77,300 MIN 8,120 AC-FT 14,460,000
WTR YR 1967 TOTAL 12,182,910 MEAN 33,380 MAX 90,700 MIN 8,610 AC-FT 24,160,000

M EXPRESSED IN THOUSANDS.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15,900	15,900	14,900	14,800	37,500	65,800	21,000	10,200	10,300	12,100	12,900	11,400
2	15,200	16,900	14,900	14,500	36,100	64,800	21,100	10,500	10,000	12,300	12,900	11,300
3	15,100	17,100	15,400	14,600	33,400	62,900	21,600	10,900	9,780	12,100	12,800	11,000
4	17,400	16,800	15,800	14,300	34,200	60,500	21,200	11,700	10,500	12,300	13,200	11,400
5	17,800	16,000	18,300	14,100	34,900	56,700	20,000	12,800	10,600	12,600	13,200	11,400
6	17,700	15,200	19,600	13,800	32,400	55,300	19,200	13,800	10,500	12,800	12,800	11,900
7	17,400	14,600	21,200	13,500	30,400	44,800	18,500	14,100	11,900	13,400	12,800	12,300
8	17,200	14,700	20,900	13,200	28,300	40,400	18,000	13,600	12,700	13,100	12,900	12,900
9	16,800	14,500	21,100	13,100	26,900	36,900	16,900	13,500	13,100	12,500	12,700	13,300
10	17,200	13,600	20,900	13,700	24,800	34,000	15,900	13,400	13,200	12,500	12,800	13,900
11	16,500	13,400	19,700	15,500	24,800	32,100	15,500	13,000	12,900	12,500	12,900	14,300
12	16,600	13,200	18,300	24,000	24,400	30,000	15,000	13,300	12,700	12,500	13,100	14,600
13	15,900	13,200	17,600	23,700	23,500	29,400	15,000	13,700	11,900	12,500	12,800	15,000
14	15,400	13,600	17,200	20,000	23,900	31,500	14,900	14,500	11,100	12,800	12,900	14,900
15	15,800	14,100	16,900	19,100	23,900	34,100	14,100	15,800	11,000	13,100	12,700	15,000
16	16,000	13,900	16,900	28,400	22,000	34,200	13,200	15,500	10,900	12,900	13,000	14,600
17	16,000	14,700	16,800	33,800	21,800	34,900	12,400	14,700	11,000	12,500	12,900	14,400
18	16,000	14,900	16,700	34,700	25,200	36,800	11,600	14,100	11,200	12,200	13,100	14,200
19	15,900	15,100	16,800	33,400	34,200	36,100	10,900	14,100	10,900	12,000	13,100	13,800
20	15,800	14,900	17,000	29,800	40,200	33,300	10,300	14,000	10,700	12,100	12,600	13,300
21	15,700	14,100	17,000	26,600	51,100	29,800	10,200	14,100	10,900	12,100	12,900	13,200
22	15,600	14,100	16,600	25,000	59,700	27,300	10,400	13,600	11,200	12,200	13,500	13,300
23	15,200	14,100	16,100	23,000	63,300	25,700	10,600	14,100	11,600	12,500	14,800	13,300
24	15,600	14,000	16,000	19,900	65,000	24,500	10,600	14,200	11,500	12,500	14,700	13,100
25	15,700	14,000	15,700	18,600	66,200	23,800	10,500	14,200	11,200	12,400	13,900	13,000
26	15,900	14,200	15,600	17,900	66,100	23,300	10,600	13,800	11,400	12,600	13,400	12,700
27	16,100	14,000	15,800	17,200	66,200	22,700	11,300	13,600	11,100	12,900	13,100	12,600
28	16,300	14,000	15,900	16,600	66,600	22,000	11,500	13,100	11,500	13,200	12,800	12,500
29	16,100	14,400	15,800	16,700	66,600	21,100	11,000	12,500	11,400	13,400	12,600	12,500
30	15,600	14,600	15,600	19,000	------	20,800	10,300	11,500	11,900	13,000	11,800	12,500
31	15,400	------	15,500	32,300	------	21,000	------	10,900	------	12,800	11,600	------
TOTAL	500,800	437,900	532,500	634,800	1,153.6M	1,116.5M	433,100	412,800	340,580	390,400	403,100	393,600
MEAN	16,150	14,590	17,180	20,480	39,780	36,020	14,440	13,320	11,350	12,590	13,000	13,120
MAX	17,800	17,100	21,200	34,700	66,600	65,800	21,600	15,800	13,200	13,400	14,800	15,000
MIN	15,100	13,200	14,900	13,100	21,800	20,800	10,200	10,200	9,780	12,000	11,600	11,000
AC-FT	993,300	868,400	1,056M	1,259M	2,288M	2,215M	859,100	818,800	675,500	774,400	799,500	780,700

CAL YR 1967 TOTAL 11,374,000 MEAN 31,160 MAX 90,700 MIN 13,200 AC-FT 22,560,000
WTR YR 1968 TOTAL 6,749,580 MEAN 18,440 MAX 66,600 MIN 9,780 AC-FT 13,390,000

M EXPRESSED IN THOUSANDS.

11447500 SACRAMENTO RIVER AT SACRAMENTO, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12,800	12,300	13,400	34,500	72,900	74,600	38,000	41,700	35,200	15,500	15,400	21,600
2	12,900	12,200	13,700	30,200	72,200	73,800	39,400	40,700	34,600	15,400	15,500	21,700
3	12,700	12,600	13,700	26,800	69,100	73,100	40,200	39,600	34,000	15,000	15,500	22,100
4	12,200	12,600	13,500	24,400	67,000	72,200	42,700	35,500	32,100	14,500	15,600	22,700
5	11,600	12,800	13,300	22,900	66,100	70,800	46,500	33,300	29,900	13,900	16,100	22,500
6	11,200	12,900	13,400	22,200	67,400	69,400	49,800	32,700	27,900	13,700	17,100	22,600
7	10,800	13,000	13,200	21,600	67,900	67,900	52,800	32,700	26,900	13,600	17,500	22,400
8	10,500	12,900	13,300	21,100	67,200	65,800	54,400	31,800	26,400	14,000	17,300	21,600
9	10,300	12,700	13,300	20,400	67,100	62,900	54,600	31,500	25,400	14,000	17,900	21,400
10	10,300	12,700	13,700	19,600	67,100	59,500	54,000	32,400	24,400	13,700	18,000	21,200
11	10,400	12,500	15,300	19,000	68,100	55,400	52,600	34,000	24,300	13,700	17,500	21,200
12	10,800	12,800	22,600	19,400	71,400	50,300	50,400	36,000	23,800	13,800	17,700	21,100
13	11,100	12,700	26,400	30,800	71,600	46,100	49,400	37,300	23,600	13,700	18,200	21,000
14	11,600	13,000	24,100	51,000	71,600	44,000	48,700	38,000	23,500	13,900	18,400	21,100
15	12,500	14,100	23,100	62,000	73,200	41,600	48,100	40,300	23,400	14,000	18,400	21,200
16	12,600	14,500	27,600	68,400	76,300	39,900	47,400	44,500	23,100	13,800	18,400	21,200
17	12,500	14,900	31,000	69,300	76,900	38,400	46,300	45,700	22,300	13,600	18,400	21,500
18	12,300	14,900	30,500	67,400	76,900	36,700	44,600	46,600	20,900	13,600	18,800	21,500
19	11,900	14,700	26,600	68,500	76,400	36,600	43,100	48,500	20,100	13,400	18,800	21,300
20	11,800	15,100	23,900	78,500	75,100	37,500	42,600	49,800	19,600	13,300	19,000	21,400
21	11,900	15,100	21,400	93,500	73,800	38,900	41,300	50,200	18,900	13,500	18,900	21,200
22	11,700	15,200	19,600	95,200	73,000	40,500	40,400	50,100	18,500	13,700	19,000	20,900
23	11,500	14,500	18,400	94,400	72,400	42,900	39,600	49,500	18,500	13,500	19,500	20,500
24	11,500	14,100	18,100	83,300	73,500	43,100	39,700	48,000	18,300	14,100	19,700	20,300
25	11,200	14,200	21,800	81,800	74,800	41,500	40,400	46,000	17,500	14,700	19,700	19,900
26	11,400	14,000	33,200	87,600	75,100	38,500	41,300	44,600	17,100	15,000	19,700	19,600
27	11,400	14,100	38,000	87,000	73,400	36,300	43,100	42,700	16,400	15,000	19,800	19,600
28	11,300	14,000	39,100	85,100	72,700	35,400	43,300	40,800	16,000	15,200	20,100	19,600
29	11,800	13,700	38,100	78,400	------	35,300	43,200	39,900	15,600	15,300	20,500	18,700
30	11,900	13,400	39,000	77,200	------	35,900	42,600	38,000	15,500	15,300	21,000	17,900
31	12,100	------	38,700	76,000	------	36,800	------	36,400	------	15,300	21,300	------
TOTAL	360,500	408,100	711,000	1,717.5M	2,010.2M	1,541.6M	1,360.5M	1,258.8M	693,700	440,700	568,700	630,500
MEAN	11,630	13,600	22,940	55,400	71,790	49,730	45,350	40,610	23,120	14,220	18,350	21,020
MAX	12,900	15,200	39,100	95,200	76,900	74,600	54,600	50,200	35,200	15,500	21,300	22,700
MIN	10,300	12,200	13,200	19,000	66,100	35,300	38,000	31,500	15,500	13,300	15,400	17,900
AC-FT	715,100	809,500	1,410M	3,407M	3,987M	3,058M	2,699M	2,497M	1,376M	874,100	1,128M	1,251M

CAL YR 1968 TOTAL 6,758,080 MEAN 18,460 MAX 66,600 MIN 9,780 AC-FT 13,400,000
WTR YR 1969 TOTAL 11,701,800 MEAN 32,060 MAX 95,200 MIN 10,300 AC-FT 23,210,000

M EXPRESSED IN THOUSANDS.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16,900	17,200	15,800	66,000	76,600	49,500	21,700	15,600	11,800	13,200	13,500	16,700
2	16,600	17,200	15,800	62,400	76,800	52,800	20,800	15,300	11,200	13,600	13,600	17,200
3	16,100	17,200	15,900	58,900	75,800	57,900	20,000	15,200	10,100	13,300	13,600	17,500
4	15,600	17,100	15,900	56,200	74,000	59,400	19,000	15,100	10,400	13,100	14,000	17,700
5	15,500	17,400	15,900	52,500	72,700	58,800	18,000	15,500	11,200	13,000	14,100	17,900
6	15,300	17,600	15,700	46,600	71,900	57,700	17,400	15,500	11,100	13,200	14,100	18,000
7	15,000	18,400	15,600	40,300	71,300	57,500	17,000	15,200	10,700	12,600	14,400	18,000
8	14,800	19,100	15,700	36,800	70,100	57,100	16,400	14,900	10,900	12,200	14,600	18,000
9	14,800	19,200	16,300	35,400	69,200	58,400	15,900	14,200	11,200	12,000	14,600	18,600
10	14,700	18,900	16,800	36,800	67,800	59,600	15,500	14,200	11,500	11,900	14,800	19,600
11	15,300	18,500	16,800	43,600	66,700	61,000	15,400	15,200	12,600	12,300	14,800	20,200
12	15,800	18,200	17,200	50,100	66,100	61,000	14,700	17,100	12,900	12,400	15,000	20,500
13	16,100	17,300	17,900	57,800	65,900	59,900	14,200	17,500	12,700	12,900	14,800	21,500
14	16,400	16,200	25,700	66,500	66,000	57,600	14,800	17,500	12,700	13,100	15,000	20,500
15	16,400	16,100	32,500	71,600	66,600	54,500	13,900	17,400	12,300	13,500	15,100	20,600
16	17,100	17,200	32,700	78,700	66,200	51,900	13,500	16,600	12,100	13,400	15,000	20,000
17	17,800	17,500	30,500	90,200	65,700	48,500	13,400	15,600	12,100	12,900	15,000	20,000
18	18,500	17,200	28,100	93,500	65,900	44,100	12,800	15,000	12,300	12,900	14,900	19,800
19	18,700	16,800	26,800	93,100	65,400	40,400	12,100	13,700	11,800	13,100	14,900	19,700
20	18,300	16,200	28,300	87,900	64,400	38,000	11,600	13,500	11,700	13,000	14,900	19,800
21	17,900	15,800	34,800	84,900	63,100	34,000	11,100	13,200	11,900	13,300	15,000	19,900
22	17,600	15,700	40,800	89,500	62,100	30,500	11,100	13,000	11,900	13,600	15,200	18,900
23	17,500	15,900	47,300	93,300	60,700	28,700	10,800	12,800	12,200	13,600	15,300	17,700
24	17,400	15,800	60,200	93,800	58,900	27,500	10,600	12,800	12,000	13,700	14,500	17,300
25	17,400	15,800	70,300	93,000	58,300	26,600	11,100	12,400	11,600	13,700	14,400	16,900
26	17,300	15,800	72,100	89,100	57,100	25,900	11,500	12,400	11,600	13,700	14,800	16,400
27	17,300	15,700	73,000	87,100	53,700	24,400	12,000	12,100	11,800	13,900	16,100	16,600
28	17,400	15,800	72,300	84,500	50,700	22,400	12,500	10,700	12,000	13,900	16,800	16,700
29	17,400	15,700	71,000	80,700	------	21,600	14,400	10,600	12,400	13,800	16,900	16,800
30	17,300	15,800	67,900	79,400	------	21,400	15,500	10,800	12,900	13,800	17,300	16,400
31	17,300	------	67,200	77,900	------	21,800	------	11,600	------	13,800	17,300	------
TOTAL	517,500	508,200	1,092.8M	2,178.1M	1,849.7M	1,370.4M	438,600	442,200	353,600	408,400	464,300	555,400
MEAN	16,690	16,940	35,250	70,260	66,060	44,210	14,620	14,260	11,790	13,170	14,980	18,510
MAX	18,700	19,200	73,000	93,800	76,800	61,000	21,700	17,500	12,900	13,900	17,300	21,500
MIN	14,700	15,700	15,600	35,400	50,700	21,400	10,600	10,600	10,100	11,900	13,500	16,400
AC-FT	1,026M	1,008M	2,168M	4,320M	3,669M	2,718M	870,000	877,100	701,400	810,100	920,900	1,102M

CAL YR 1969 TOTAL 12,340,700 MEAN 33,810 MAX 95,200 MIN 13,300 AC-FT 24,480,000
WTR YR 1970 TOTAL 10,179,200 MEAN 27,890 MAX 93,800 MIN 10,100 AC-FT 20,190,000

M EXPRESSED IN THOUSANDS.

11448500 ADOBE CREEK NEAR KELSEYVILLE, CALIF.

LOCATION (REVISED).--Lat 38°55'37", long 122°52'47", in SE¼SE¼ sec.32, T.13 N., R.9 W., Lake County, on left bank 2.3 miles upstream from Highland Creek and 4.2 miles southwest of Kelseyville.

DRAINAGE AREA.--6.36 sq mi (revised).

PERIOD OF RECORD.--October 1954 to September 1970.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,476.06 ft (revised) above mean sea level.

AVERAGE DISCHARGE.--16 years, 12.5 cfs (9,060 acre-ft per year); median of yearly mean discharges, 10 cfs (7,200 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (400 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Dec. 28, 1965	0900	500	6.60	Jan. 10, 1968	0215	688	7.15	Dec. 21, 1969	0430	882	7.56
Jan. 4, 1966	1700	*1,150	8.33	Jan. 14, 1968	1530	425	6.35	Dec. 24, 1969	0030	417	6.29
				Jan. 29, 1968	1645	*1,120	8.24	Jan. 9, 1970	1415	417	6.29
Nov. 19, 1966	2100	828	7.52					Jan. 14, 1970	0630	900	7.60
Dec. 2, 1966	1500	924	7.76	Dec. 10, 1968	1030	536	6.66	Jan. 21, 1970	0130	617	6.89
Dec. 4, 1966	1600	796	7.44	Dec. 15, 1968	0915	767	7.28	Jan. 23, 1970	2045	*1,500	8.81
Jan. 21, 1967	1000	*992	7.93	Jan. 13, 1969	0600	*1,050	7.94	Jan. 27, 1970	0030	426	6.32
Jan. 29, 1967	0400	642	7.02	Jan. 21, 1969	0315	860	7.51				
Mar. 15, 1967	2400	576	6.83	Jan. 25, 1969	2315	869	7.53				

No flow for several months in each year.

Period of record: Maximum discharge, 1,500 cfs Dec. 22, 1964, Jan. 23, 1970, maximum gage height, 9.22 ft Jan. 31, 1963; no flow at times in each year.

REMARKS.--Records good above 10 cfs and fair below. Some regulation and diversions above station for irrigation of about 200 acres.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	2.9	33	77	13	2.6	1.3	.10			
2		0	2.4	22	43	11	2.6	1.3	.10			
3		0	2.2	66	64	8.8	2.6	1.3	.10			
4		0	1.8	774	103	8.1	2.6	1.3	.10			
5		0	1.7	285	61	6.8	2.4	1.3	0			
6		0	1.6	97	42	6.4	2.4	1.3	.10			
7		.50	1.6	50	28	6.4	2.2	1.2	.20			
8		.50	1.6	32	21	6.4	2.2	1.1	.10			
9		0	1.4	22	16	19	2.6	1.3	0			
10		0	1.4	17	14	22	3.2	1.4	0			
11		0	1.5	13	11	15	3.9	1.2	0			
12		0	1.8	11	8.8	13	7.5	1.1	0			
13		13	1.6	8.8	7.5	12	3.9	1.0	0			
14		43	1.5	7.5	6.8	10	2.6	1.0	0			
15		48	1.4	6.4	6.1	12	2.6	.90	0			
16		4.6	1.4	6.1	5.7	11	2.4	.80	0			
17		40	1.3	5.7	5.3	9.5	2.2	.60	0			
18		51	1.1	5.3	5.3	7.5	2.2	.50	0			
19		20	1.1	4.6	27	7.5	2.0	.80	0			
20		6.8	1.1	4.2	12	6.4	1.8	.50	0			
21		3.9	1.1	4.2	10	6.1	1.7	.20	0			
22		2.9	1.1	3.9	12	5.3	1.7	.20	0			
23		3.4	1.0	3.9	12	5.3	1.6	.20	0			
24		87	102	3.5	19	5.0	1.5	.20	0			
25		33	47	3.2	19	4.6	1.4	.10	0			
26		14	20	2.9	19	4.2	1.4	.10	0			
27		8.8	15	2.9	17	3.9	1.4	.10	0			
28		6.1	232	2.6	14	3.9	1.4	.10	0			
29		4.6	95	94	------	3.5	1.4	.10	0			
30		3.9	63	114	------	3.2	1.3	.20	0			
31		------	58	44	------	2.9	------	.20	------			------
TOTAL	0	395.00	667.6	1,749.7	686.5	259.7	71.3	22.90	.80	0	0	0
MEAN	0	13.2	21.5	56.4	24.5	8.38	2.38	.74	.027	0	0	0
MAX	0	87	232	774	103	22	7.5	1.4	.20	0	0	0
MIN	0	0	1.0	2.6	5.3	2.9	1.3	.10	0	0	0	0
AC-FT	0	783	1,320	3,470	1,360	515	141	45	1.6	0	0	0

CAL YR 1965 TOTAL 4,192.10 MEAN 11.5 MAX 747 MIN 0 AC-FT 8,320
WTR YR 1966 TOTAL 3,853.50 MEAN 10.6 MAX 774 MIN 0 AC-FT 7,640

11448500 ADOBE CREEK NEAR KELSEYVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	24	2.0	59	2.4	30	10	1.8			
2		0	285	1.8	34	2.2	22	8.8	12			
3		0	84	1.8	24	2.2	18	7.5	5.0			
4		0	400	1.8	18	2.2	16	6.8	2.7			
5		0	230	1.7	14	2.0	18	6.4	2.2			
6		0	103	1.7	12	1.8	58	6.1	2.0			
7		0	55	1.7	9.5	1.8	32	5.7	1.8			
8		0	31	1.6	8.1	1.8	24	5.3	1.6			
9		0	22	1.5	6.8	1.7	19	5.3	1.7			
10		0	19	1.5	6.1	41	37	6.1	1.6			
11		0	15	1.5	5.7	70	29	4.2	1.5			
12		.04	12	1.5	5.3	98	22	4.6	1.5			
13		.13	12	1.5	5.0	72	18	4.6	1.4			
14		3.7	10	1.5	5.0	49	15	4.2	1.4			
15		39	8.8	1.4	4.6	108	16	3.5	1.3			
16		28	6.4	1.4	4.6	298	12	3.5	1.3			
17		3.9	5.7	1.4	3.9	74	55	3.2	1.2			
18		2.0	5.0	1.4	3.9	38	55	3.2	1.1			
19		161	5.0	1.4	3.5	24	47	2.7	1.1			
20		161	4.6	178	3.2	27	35	2.7	1.1			
21		80	3.9	610	3.2	19	31	2.4	1.0			
22		43	3.5	118	2.9	18	24	2.2	.98			
23		17	3.5	45	2.7	29	28	1.7	.82			
24		8.8	3.2	113	2.7	18	22	1.8	.71			
25		5.7	2.9	59	3.9	15	19	1.8	.52			
26		4.2	2.7	59	2.7	12	17	1.7	.46			
27		3.2	2.4	63	2.4	11	16	1.6	.40			
28		10	2.2	168	2.4	11	14	1.6	.32			
29		14	2.2	294	------	8.8	12	1.6	.22			
30		8.1	2.2	222	------	45	11	1.6	0			
31		------	2.0	172	------	44	------	1.6	------			------
TOTAL	0	592.77	1,368.2	2,131.1	259.1	1,147.9	772	124.0	50.73	0	0	0
MEAN	0	19.8	44.1	68.7	9.25	37.0	25.7	4.00	1.69	0	0	0
MAX	0	161	400	610	59	298	58	10	12	0	0	0
MIN	0	0	2.0	1.4	2.4	1.7	11	1.6	0	0	0	0
AC-FT	0	1,180	2,710	4,230	514	2,280	1,530	246	101	0	0	0

CAL YR 1966 TOTAL 4,751.87 MEAN 13.0 MAX 774 MIN 0 AC-FT 9,430
WTR YR 1967 TOTAL 6,445.80 MEAN 17.7 MAX 610 MIN 0 AC-FT 12,790

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	1.7	1.4	37	8.1	5.7	.41				
2		0	1.4	1.4	69	6.8	2.4	.40				
3		0	69	1.4	44	6.1	1.6	.39				
4		0	45	1.3	32	5.7	1.5	.39				
5		0	32	1.3	24	5.7	1.4	.38				
6		0	7.5	1.3	18	5.3	1.3	.38				
7		0	49	1.3	14	5.7	1.2	.37				
8		0	9.5	1.4	12	5.3	1.1	.36				
9		0	4.6	16	11	4.6	1.1	.36				
10		0	3.2	163	9.5	4.2	1.0	.36				
11		0	2.4	21	8.1	3.9	.98	.36				
12		0	1.8	11	6.8	50	.96	.37				
13		0	1.6	12	6.4	43	.92	.44				
14		5.3	2.7	182	5.7	51	.88	.42				
15		.56	1.5	115	5.3	37	.86	.38				
16		.23	1.5	47	12	119	.84	.36				
17		.20	4.6	24	30	56	.80	.33				
18		.20	31	15	18	37	.78	.32				
19		.20	9.5	11	84	25	.74	.33				
20		.16	5.0	8.1	80	18	.71	.35				
21		.12	3.5	6.1	87	13	.67	.34				
22		0	2.7	5.0	48	11	.65	.34				
23		0	2.2	4.2	31	8.6	.60	.32				
24		.04	2.0	3.9	22	6.1	.58	.32				
25		.11	2.0	3.5	18	5.3	.56	.32				
26		.02	1.8	3.2	14	4.2	.52	.28				
27		.12	1.6	2.9	11	3.2	.48	.25				
28		.19	1.5	21	10	2.7	.46	.19				
29		5.3	1.5	639	8.8	2.2	.44	0				
30		3.9	1.5	171	------	1.8	.40	0				
31		------	1.4	61	------	1.6	------	0	------			------
TOTAL	0	16.65	306.2	1,556.7	776.6	557.3	32.13	9.82	0	0	0	0
MEAN	0	.56	9.88	50.2	26.8	18.0	1.07	.32	0	0	0	0
MAX	0	5.3	69	639	87	119	5.7	.44	0	0	0	0
MIN	0	0	1.4	1.3	5.3	1.6	.40	0	0	0	0	0
AC-FT	0	33	607	3,090	1,540	1,110	64	19	0	0	0	0

CAL YR 1967 TOTAL 4,807.68 MEAN 13.2 MAX 610 MIN 0 AC-FT 9,540
WTR YR 1968 TOTAL 3,255.40 MEAN 8.89 MAX 639 MIN 0 AC-FT 6,460

11448500 ADOBE CREEK NEAR KELSEYVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.50	.66	9.4	28	94	3.3	4.8	.72			
2	0	1.1	.60	7.1	24	63	8.2	4.5	.90			
3	0	.60	.58	5.7	21	43	5.3	4.1	.83			
4	0	.29	.56	4.9	22	32	5.3	3.9	.78			
5	0	.22	.52	4.9	103	26	40	3.6	.85			
6	0	.18	.54	4.1	130	20	19	3.3	.95			
7	0	.22	.68	4.1	57	17	14	3.1	1.1			
8	0	.20	1.3	3.3	66	14	11	2.9	1.2			
9	0	.18	2.6	3.0	232	13	11	2.7	1.3			
10	0	.17	160	3.0	90	11	10	2.6	1.5			
11	.25	.16	22	124	206	9.4	9.0	2.5	1.6			
12	.70	.36	9.4	260	100	9.4	8.0	2.3	1.3			
13	.40	.30	22	457	51	8.2	7.5	2.2	1.0			
14	.30	1.0	41	80	48	7.1	7.0	2.1	.85			
15	.17	1.2	217	35	85	6.6	6.5	2.0	.74			
16	.07	.50	32	22	56	6.1	6.1	2.0	.65			
17	0	.58	12	16	40	7.6	5.8	1.9	.57			
18	0	.75	7.1	48	31	6.1	5.5	1.9	.50			
19	0	.65	5.7	187	23	5.7	5.2	1.8	.45			
20	0	.58	4.1	381	18	6.1	5.0	1.7	.40			
21	0	.50	3.0	472	15	8.2	4.7	1.5	.36			
22	0	.42	2.7	112	16	6.1	4.5	1.4	.32			
23	0	.45	69	51	39	5.3	20	1.3	.28			
24	0	.56	136	35	76	4.9	13	1.4	.24			
25	0	.68	112	162	66	4.9	9.0	1.6	.20			
26	0	.60	53	207	43	4.5	7.5	1.7	.18			
27	0	.51	29	69	64	4.5	7.0	1.9	.15			
28	0	.42	37	42	163	4.1	6.4	1.3	.13			
29	.20	.55	22	34	------	3.7	5.8	1.0	.10			
30	.90	.72	15	31	------	3.7	5.3	.90	.05			
31	.65	------	12	23	------	3.7	------	.80	------			------
TOTAL	3.64	15.15	1,031.04	2,897.5	1,913	458.9	275.9	70.70	20.20	0	0	0
MEAN	.12	.51	33.3	93.5	68.3	14.8	9.20	2.28	.67	0	0	0
MAX	.90	1.2	217	472	232	94	40	4.8	1.6	0	0	0
MIN	0	.16	.52	3.0	15	3.7	3.3	.80	.05	0	0	0
AC-FT	7.2	30	2,050	5,750	3,790	910	547	140	40	0	0	0

CAL YR 1968 TOTAL 3,982.38 MEAN 10.9 MAX 639 MIN 0 AC-FT 7,900
WTR YR 1969 TOTAL 6,686.03 MEAN 18.3 MAX 472 MIN 0 AC-FT 13,260

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.38	.28	5.3	15	45	2.2	.93	.13	0		
2	0	.28	.28	4.5	12	20	2.1	.85	.12	0		
3	0	.20	.28	4.1	11	16	2.0	.80	.10	.02		
4	0	.28	.28	3.7	9.4	73	1.8	.71	.10	.02		
5	0	.21	.28	3.0	8.8	38	1.8	.71	.08	0		
6	0	.80	.28	3.0	7.6	25	1.7	.78	.05	0		
7	0	.98	.28	3.0	6.6	24	1.7	.77	.03	0		
8	0	3.0	.80	27	6.1	26	1.5	.77	.03	0		
9	0	.98	.50	208	5.7	20	1.5	.82	.02	0		
10	0	.50	3.3	91	5.3	18	1.5	.76	.03	0		
11	0	.38	24	49	4.9	15	1.4	.82	.11	0		
12	0	.38	152	56	47	13	1.4	.90	.13	0		
13	0	.38	31	140	174	11	1.7	.93	.13	0		
14	0	.28	19	402	60	10	1.6	.81	.14	0		
15	.95	.28	10	110	33	8.9	1.5	.67	.14	0		
16	.98	.28	7.1	312	79	7.9	1.5	.56	.12	0		
17	.38	.28	7.1	105	70	7.0	1.4	.52	.10	0		
18	.28	.28	17	54	41	6.1	1.2	.58	.10	0		
19	.20	.28	232	47	28	5.7	1.4	.79	.08	0		
20	.20	.38	136	103	22	5.3	1.4	.80	.08	0		
21	.20	.38	306	354	17	4.8	1.4	.79	.08	0		
22	.20	.28	52	192	13	4.7	1.3	.76	.06	0		
23	.14	.28	142	627	11	4.3	1.2	.40	.06	0		
24	.14	.28	163	309	10	4.0	1.2	.34	.05	0		
25	.20	.28	53	88	8.8	3.4	1.2	.28	.04	0		
26	.20	.28	29	79	7.6	3.1	1.3	.27	.03	0		
27	.20	.28	19	150	7.1	2.8	1.3	.27	.03	0		
28	.20	.28	14	58	26	2.8	1.3	.23	.03	0		
29	.38	.28	10	35	------	2.7	1.1	.24	.02	0		
30	.38	.28	8.2	24	------	2.5	1.0	.23	0	0		
31	.38	------	6.6	18	------	2.3	------	.16	------	0		------
TOTAL	5.61	13.71	1,444.56	3,664.6	746.9	432.3	44.6	19.25	2.22	.04	0	0
MEAN	.18	.46	46.6	118	26.7	13.9	1.49	.62	.074	.001	0	0
MAX	.98	3.0	306	627	174	73	2.2	.93	.14	.02	0	0
MIN	0	.20	.28	3.0	4.9	2.3	1.0	.16	0	0	0	0
AC-FT	11	27	2,870	7,270	1,480	857	88	38	4.4	.08	0	0

CAL YR 1969 TOTAL 7,100.08 MEAN 19.5 MAX 472 MIN 0 AC-FT 14,080
WTR YR 1970 TOTAL 6,373.79 MEAN 17.5 MAX 627 MIN 0 AC-FT 12,640

11448900 HIGHLAND CREEK ABOVE HIGHLAND CREEK DAM, CALIF.

LOCATION.--Lat 38°55'48", long 122°55'11", in NW¼SE¼ sec.36, T.13 N., R.10 W., Lake County, on left bank 100 ft downstream from Pipeline Creek, 1.7 miles upstream from Highland Creek Dam, and 5.7 miles southwest of Kelseyville.

DRAINAGE AREA.--11.9 sq mi.

PERIOD OF RECORD.--October 1962 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 1,490.07 ft above mean sea level.

AVERAGE DISCHARGE.--8 years, 21.7 cfs (15,720 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (1,200 cfs, revised), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Jan. 4, 1966	1700	*1,290	8.64	Jan. 29, 1968	-	*1,810	8.70	Jan. 25, 1969	2330	1,260	7.62
Dec. 2, 1966	1400	*1,210	8.44	Dec. 15, 1968	0900	*1,430	7.95	Jan. 14, 1970	0700	1,230	7.55
				Jan. 21, 1969	0045	1,290	7.67	Jan. 23, 1970	2015	*2,980	10.65

No flow for many days in each year.

Period of record: Maximum discharge, 3,080 cfs Dec. 22, 1964 (gage height, 12.15 ft); no flow at times in each year.

REMARKS.--Records good. No gage-height record Jan. 9 to Mar. 19, 1968. No regulation or diversion above station. Water-quality records for the water year 1966 are published in reports of the Geological Survey. Rainfall data are available in files of the district office.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.20	.10	5.1	42	148	19	5.6	2.5	1.2	.40		0
2	.10	.10	4.3	24	79	16	5.3	2.5	1.4	.50		0
3	.10	.10	3.8	37	146	15	5.3	2.3	1.3	.50		0
4	.10	.10	3.2	855	250	13	5.1	2.3	1.2	.40		0
5	.10	.10	3.0	367	110	12	4.8	2.3	1.2	.30		0
6	.10	.10	2.7	124	76	11	4.6	2.3	1.3	.30		0
7	.10	1.1	2.3	69	51	11	4.6	2.3	1.2	.30		0
8	.10	1.1	2.3	43	37	10	4.6	2.2	1.1	.30		0
9	.10	.40	2.2	30	29	19	5.6	2.5	.90	.50		0
10	.10	.40	2.3	24	24	21	6.3	2.7	.90	.60		0
11	.10	.40	2.7	20	20	17	7.0	2.5	.80	.50		0
12	.10	1.0	3.8	17	18	15	10	2.3	.70	.50		0
13	.10	35	3.2	15	16	15	5.9	2.2	.70	.50		0
14	.10	85	2.8	13	14	13	5.3	1.9	.70	.50		.10
15	.10	107	2.5	11	13	15	4.8	1.8	.60	.40		.10
16	.10	9.5	2.3	10	11	16	4.6	1.6	.60	.30		.10
17	.10	93	2.2	9.1	11	13	4.3	1.5	.60	.30		.10
18	.10	155	2.0	8.7	10	12	4.3	1.4	.50	.30		.10
19	.10	44	2.0	8.5	32	13	4.1	1.4	.50	.20		.10
20	.10	17	2.0	7.7	18	11	4.1	1.3	.50	.20		.10
21	.10	11	2.2	7.0	16	11	4.1	1.4	.60	.20		.10
22	.10	7.7	2.2	7.3	16	10	3.8	1.3	.60	.20		.10
23	.10	7.7	2.0	7.0	16	9.1	3.6	1.2	.60	.20		.10
24	.10	128	153	6.6	23	8.7	3.4	1.1	.60	.20		.10
25	.10	54	82	6.3	26	8.0	3.2	1.0	.50	.10		.10
26	.10	26	34	5.9	27	7.3	3.0	1.1	.50	.10		.10
27	.10	17	25	5.6	22	7.0	3.0	1.0	.40	.10		.10
28	.10	13	415	5.1	20	6.6	3.0	1.1	.40	.10		.10
29	.10	10	156	204	------	6.6	2.8	1.3	.40	.10		.10
30	.10	7.7	93	208	------	5.9	2.5	1.5	.40	.10		.10
31	.10	------	110	77	------	5.9	------	1.4	------	0		------
TOTAL	3.20	832.60	1,131.1	2,274.8	1,279	373.1	138.6	55.2	22.90	9.20	0	1.70
MEAN	.10	27.8	36.5	73.4	45.7	12.0	4.62	1.78	.76	.30	0	.057
MAX	.20	155	415	855	250	21	10	2.7	1.4	.60	0	.10
MIN	.10	.10	2.0	5.1	10	5.9	2.5	1.0	.40	0	0	0
AC-FT	6.3	1,650	2,240	4,510	2,540	740	275	109	45	18	0	3.4

CAL YR 1965 TOTAL 6,335.20 MEAN 17.4 MAX 1,250 MIN 0 AC-FT 12,570
WTR YR 1966 TOTAL 6,121.40 MEAN 16.8 MAX 855 MIN 0 AC-FT 12,140

11448900 HIGHLAND CREEK ABOVE HIGHLAND CREEK DAM, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.09	.20	16	3.8	86	5.1	52	17	5.6	.93	.20	0
2	.09	.20	349	3.6	54	4.6	36	16	22	.85	.17	0
3	.09	.20	107	3.6	39	4.8	30	14	8.4	.71	.11	0
4	.09	.20	564	3.6	30	4.6	25	14	5.3	.64	.09	0
5	.09	.20	303	3.4	24	4.1	25	13	4.8	.64	.09	0
6	.09	1.2	155	3.2	21	3.8	56	12	4.8	.58	.09	0
7	.09	.23	80	3.2	18	3.8	41	11	4.3	.52	.11	0
8	.09	.13	45	3.2	16	3.8	33	10	4.1	.58	.09	0
9	.11	.13	33	3.2	15	3.8	27	10	4.1	.52	.07	0
10	.09	.13	31	3.0	13	53	45	12	3.8	.52	.07	.01
11	.11	.15	23	3.0	12	85	39	10	3.6	.52	.07	.01
12	.13	1.0	19	3.2	11	151	31	9.5	3.6	.47	.06	.01
13	.13	1.8	18	3.0	10	106	26	8.0	3.4	.42	.05	0
14	.15	4.8	16	2.8	9.5	79	24	8.2	3.0	.34	.04	0
15	.15	30	14	2.8	9.5	147	36	7.3	2.8	.34	.03	0
16	.15	18	12	2.8	9.1	368	30	7.0	2.7	.30	.02	0
17	.13	3.8	11	2.8	8.4	105	84	6.6	2.5	.30	.02	.01
18	.13	3.0	10	2.7	8.0	59	86	5.9	2.3	.26	.01	.03
19	.13	165	8.7	2.7	7.7	39	108	5.6	2.3	.26	0	.02
20	.13	108	8.0	154	7.3	34	77	5.3	2.2	.26	0	0
21	.15	44	7.3	625	6.6	26	64	5.1	1.9	.26	0	0
22	.15	25	6.6	136	6.6	24	50	4.6	1.9	.23	.01	0
23	.17	7.7	6.6	62	6.3	30	64	4.3	1.9	.20	0	.01
24	.17	3.6	6.3	179	6.6	22	47	4.1	1.6	.20	0	0
25	.17	2.5	5.6	107	8.4	20	38	4.1	1.4	.17	.01	0
26	.17	2.0	5.1	100	5.9	18	33	3.8	1.4	.15	.03	0
27	.20	1.8	4.8	105	5.6	16	31	3.8	1.3	.15	.01	0
28	.20	20	4.3	195	5.1	17	26	4.1	1.2	.23	.01	0
29	.20	26	4.3	342	------	15	21	4.1	1.2	.26	.01	0
30	.20	7.7	4.3	216	------	73	19	4.1	1.0	.23	.01	.01
31	.20	------	3.8	192	------	80	------	4.1	------	.20	0	------
TOTAL	4.24	478.67	1,881.7	2,472.6	459.6	1,605.6	1,304	248.6	110.4	12.24	1.48	.11
MEAN	.14	16.0	60.7	79.8	16.4	51.8	43.5	8.02	3.68	.39	.048	.004
MAX	.20	165	564	625	86	368	108	17	22	.93	.20	.03
MIN	.09	.13	3.8	2.7	5.1	3.8	19	3.8	1.0	.15	0	0
AC-FT	8.4	949	3,730	4,900	912	3,180	2,590	493	219	24	2.9	.2

CAL YR 1966 TOTAL 6,519.11 MEAN 17.9 MAX 855 MIN 0 AC-FT 12,930
WTR YR 1967 TOTAL 8,579.24 MEAN 23.5 MAX 625 MIN 0 AC-FT 17,020

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	1.3	4.1	1.2	125	16	18	2.7	1.1	.19	0	.04
2	1.2	1.3	2.5	1.1	100	15	14	2.7	1.1	.16	0	.02
3	.81	1.3	117	1.0	73	14	10	2.5	1.1	.16	0	.02
4	.50	1.5	86	1.0	52	14	9.2	2.5	1.0	.13	0	.02
5	.39	1.6	64	1.0	43	13	8.8	2.5	1.2	.10	0	.03
6	.21	1.7	13	1.0	31	14	8.0	2.5	1.3	.08	0	.03
7	.19	1.7	77	.92	26	13	7.3	2.5	1.1	.06	0	.02
8	.17	2.1	19	1.1	22	12	7.0	2.3	1.0	.06	0	0
9	.16	2.3	9.6	17	20	11	6.6	2.3	.92	.06	0	0
10	.15	2.1	5.8	206	17	10	5.9	2.3	.76	.05	0	.02
11	.15	2.1	3.5	50	16	9.4	5.6	2.5	.76	.06	0	.03
12	.33	2.1	3.0	17	15	76	5.2	2.5	.76	.05	0	.03
13	.60	4.9	3.3	35	14	78	4.9	3.9	.68	.08	0	.01
14	.60	7.3	4.6	240	13	79	4.5	3.3	.68	.10	0	.06
15	.60	1.5	2.7	90	23	68	4.5	2.5	.54	.12	0	.10
16	.68	.92	2.6	45	38	205	4.3	2.3	.47	.11	0	.08
17	.76	.84	9.2	31	59	100	4.1	2.0	.37	.09	0	.02
18	.76	.76	44	27	48	64	4.1	2.0	.37	.05	0	0
19	.76	.84	22	20	135	46	4.1	2.3	.31	0	.09	0
20	.84	.76	8.6	15	125	29	4.1	2.5	.31	0	.23	.04
21	.92	.76	4.9	12	135	24	3.9	2.3	.31	0	.65	.08
22	1.0	.68	3.7	11	100	22	3.7	2.5	.31	0	.27	.08
23	1.0	.68	2.9	9.8	70	20	3.5	2.1	.31	0	.18	.06
24	1.0	.68	2.5	9.1	44	17	3.5	2.1	.27	0	.15	.04
25	1.0	.68	2.1	8.7	35	16	3.3	2.1	.23	0	.14	.02
26	1.2	.68	2.0	8.4	28	14	3.3	1.8	.21	0	.15	0
27	1.2	.92	1.7	8.2	21	13	3.1	1.8	.21	0	.14	0
28	1.3	1.0	1.6	210	20	11	2.9	1.6	.19	0	.13	0
29	1.3	8.4	1.5	822	17	11	2.7	1.3	.21	0	.11	0
30	1.3	9.6	1.3	440	------	10	2.7	1.2	.21	0	.08	.02
31	1.3	------	1.2	76	------	9.2	------	1.2	------	0	.06	------
TOTAL	22.42	63.00	526.9	2,416.52	1,465	1,053.6	172.8	70.6	18.29	1.71	2.38	.87
MEAN	.72	2.10	17.0	78.0	50.5	34.0	5.76	2.28	.61	.055	.077	.029
MAX	1.3	9.6	117	822	135	205	18	3.9	1.3	.19	.65	.10
MIN	.04	.68	1.2	.92	13	9.2	2.7	1.2	.19	0	0	0
AC-FT	44	125	1,050	4,790	2,910	2,090	343	140	36	3.4	4.7	1.7

CAL YR 1967 TOTAL 6,826.95 MEAN 18.7 MAX 625 MIN 0 AC-FT 13,540
WTR YR 1968 TOTAL 5,814.09 MEAN 15.9 MAX 822 MIN 0 AC-FT 11,530

11448900 HIGHLAND CREEK ABOVE HIGHLAND CREEK DAM, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.08	.94	1.3	14	71	174	8.8	6.5	2.2	.76	.02	0
2	.08	2.6	1.3	12	53	125	13	6.2	2.2	.70	0	0
3	.08	1.7	1.1	11	43	89	11	6.2	2.1	.70	0	0
4	.10	1.2	1.1	9.2	40	65	11	6.2	2.1	.70	0	0
5	.12	.81	1.0	8.0	138	51	53	5.6	2.2	.64	0	0
6	.15	.54	1.0	7.2	240	41	31	5.3	2.2	.64	0	0
7	.15	.54	1.1	6.5	105	35	22	5.3	2.2	.59	0	0
8	.15	.50	1.6	6.2	109	30	17	5.0	2.2	.54	0	0
9	.15	.50	3.3	5.6	276	27	17	5.0	2.5	.50	0	0
10	.15	.50	230	5.0	150	24	14	4.7	2.5	.50	0	0
11	.38	.92	39	77	401	22	12	4.5	2.4	.46	0	0
12	.87	1.5	15	394	188	22	11	4.5	2.2	.42	0	0
13	.84	.76	48	696	94	19	10	4.5	2.1	.38	0	0
14	.72	2.5	71	162	89	17	9.6	4.5	1.8	.34	0	0
15	.65	4.7	438	68	179	16	8.8	4.2	1.6	.34	0	0
16	.62	1.9	58	41	111	15	8.0	3.7	1.5	.30	0	.01
17	.58	1.3	25	28	77	16	8.0	3.5	1.4	.27	0	0
18	.48	1.9	16	107	59	14	7.6	3.5	1.5	.21	0	.04
19	.45	1.7	11	387	45	13	6.8	3.4	1.5	.18	0	.10
20	.44	1.3	8.0	552	36	14	6.8	3.3	1.4	.15	0	.10
21	.44	1.0	5.9	750	31	17	6.5	3.1	1.5	.12	0	.12
22	.43	.92	5.3	310	31	13	6.5	3.1	1.2	.10	0	.06
23	.43	.84	132	133	71	12	22	2.9	1.1	.08	0	.03
24	.46	1.9	366	75	159	11	19	2.9	1.1	.08	0	.03
25	.42	2.2	207	263	150	11	10	2.9	1.1	.12	0	.02
26	.43	1.4	111	365	96	11	9.2	3.3	1.1	.12	0	.01
27	.45	1.2	59	134	143	10	8.4	3.1	1.1	.09	0	0
28	.48	1.0	59	89	288	10	7.6	2.7	1.1	.06	0	0
29	.78	1.1	39	63	------	9.6	7.2	2.5	1.0	.05	0	0
30	.95	1.5	25	59	------	9.2	6.8	2.4	.92	.04	0	.01
31	.84	------	20	48	------	8.8	------	2.2	------	.03	0	------
TOTAL	13.35	41.37	2,001.0	4,885.7	3,473	951.6	389.6	126.7	51.02	10.21	.02	.53
MEAN	.43	1.38	64.5	158	124	30.7	13.0	4.09	1.70	.33	.0006	.018
MAX	.95	4.7	438	750	401	174	53	6.5	2.5	.76	.02	.12
MIN	.08	.50	1.0	5.0	31	8.8	6.5	2.2	.92	.03	0	0
AC-FT	26	82	3,970	9,690	6,890	1,890	773	251	101	20	.04	1.1

CAL YR 1968 TOTAL 7,257.49 MEAN 19.8 MAX 822 MIN 0 AC-FT 14,400
WTR YR 1969 TOTAL 11,944.10 MEAN 32.7 MAX 750 MIN 0 AC-FT 23,690

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.70	.76	12	31	36	5.4	2.5	.74	.24		
2	0	.70	.76	9.2	27	19	5.4	2.5	.74	.17		
3	.01	.70	.76	8.0	23	17	5.0	2.3	.64	.14		
4	.02	.76	.76	7.2	21	102	4.7	2.3	.54	.11		
5	.03	2.7	.76	5.9	17	54	4.7	2.3	.54	.06		
6	.03	1.6	.76	5.3	15	36	4.7	2.5	.54	.06		
7	.04	1.6	.76	5.6	14	42	4.3	2.3	.54	.06		
8	.10	5.3	2.1	51	13	57	4.3	2.5	.98	.04		
9	.12	1.9	2.5	492	11	40	4.0	2.5	1.4	.04		
10	.15	1.3	3.5	176	11	52	4.0	2.8	1.1	.02		
11	.12	1.0	29	82	9.7	28	4.0	2.8	.86	.04		
12	.12	.92	193	82	45	24	4.0	3.1	.74	.02		
13	.18	.84	39	179	333	20	5.0	2.5	.74	0		
14	.59	.84	20	584	110	18	4.7	2.5	.86	0		
15	2.9	.84	11	207	60	16	4.3	2.3	.74	0		
16	1.0	.84	6.9	520	180	15	4.0	2.0	.64	0		
17	.70	.76	6.3	210	163	13	3.7	1.8	.54	0		
18	.54	.76	21	113	92	12	3.7	1.8	.46	0		
19	.46	.76	401	82	62	11	3.7	1.8	.39	0		
20	.42	.76	203	134	45	10	3.4	1.8	.33	0		
21	.42	.76	464	532	34	9.7	3.4	1.8	.28	0		
22	.42	.76	83	273	27	9.2	3.4	1.6	.24	0		
23	.50	.76	181	1,070	22	8.7	3.1	1.4	.20	0		
24	.54	.76	203	500	19	8.2	3.1	1.3	.24	0		
25	.54	.76	80	210	16	7.3	3.1	1.3	.24	0		
26	.54	.76	50	150	15	7.3	3.4	1.3	.20	0		
27	.64	.76	35	220	13	6.5	3.4	1.3	.28	0		
28	.64	.76	27	120	21	6.5	3.1	1.3	.33	0		
29	.70	.76	21	71	------	6.1	2.8	1.1	.33	0		
30	.70	.76	17	50	------	6.1	2.8	.98	.33	0		
31	.70	------	13	40	------	5.7	------	.86	------	0		------
TOTAL	13.87	33.18	2,117.62	6,201.2	1,449.7	703.3	118.6	61.14	16.73	1.00	0	0
MEAN	.45	1.11	68.3	200	51.8	22.7	3.95	1.97	.56	.032	0	0
MAX	2.9	5.3	464	1,070	333	102	5.4	3.1	1.4	.24	0	0
MIN	0	.70	.76	5.3	9.7	5.7	2.8	.86	.20	0	0	0
AC-FT	28	66	4,200	12,300	2,880	1,390	235	121	33	2.0	0	0

CAL YR 1969 TOTAL 12,053.05 MEAN 33.0 MAX 750 MIN 0 AC-FT 23,910
WTR YR 1970 TOTAL 10,716.34 MEAN 29.4 MAX 1,070 MIN 0 AC-FT 21,260

11449010 HIGHLAND CREEK BELOW HIGHLAND CREEK DAM, NEAR KELSEYVILLE, CALIF.

LOCATION.--Lat 38°56'54", long 122°54'03", in NE¼ sec.30, T.13 N., R.9 W., Lake County, on left bank 500 ft downstream from Highland Creek Dam and 4.0 miles southwest of Kelseyville.

DRAINAGE AREA.--14.2 sq mi.

PERIOD OF RECORD.--December 1965 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 1,416.52 ft above mean sea level.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for December 1965 to September 1970 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 4, 1966	565	4.99	Many days	0
1967	Dec. 4, 1966	540	4.94	do.	0
1968	Jan. 29, 1968	571	4.66	do.	0
1969	Jan. 21, 1969	576	4.67	do.	0
1970	Jan. 23, 1970	733	4.75	do.	0

Period of record: Maximum discharge, 733 cfs Jan. 23, 1970 (gage height, 4.75 ft); maximum gage height, 4.99 ft Jan. 4, 1966; no flow for many days in each year.

REMARKS.--Records fair. No gage-height record July 15 to Sept. 30, 1967. Flow completely regulated by Highland Creek Dam 500 ft upstream (capacity, 3,500 acre-ft). No diversion above station. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, DECEMBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			3.8	57	123	18	3.8	1.4	.20	0	0	.30
2			3.7	38	70	17	4.1	1.2	.20	0	0	.40
3			3.6	38	84	15	4.5	1.1	.20	0	0	.50
4			3.4	398	269	13	3.8	1.0	.20	0	0	.50
5			3.2	550	130	12	2.3	.80	.20	0	0	.10
6			2.7	490	77	11	1.6	.80	.20	0	0	.10
7			2.7	131	48	11	1.4	.70	.30	0	0	.10
8			2.5	47	36	11	1.9	.50	.30	0	0	.10
9			2.5	36	29	14	3.0	.40	.30	0	0	.10
10			2.5	28	24	19	5.2	.50	.20	0	0	.20
11			2.5	23	20	15	4.5	.40	.20	0	0	.10
12			5.6	18	18	14	5.6	.40	.10	0	0	.20
13			5.6	16	16	14	4.1	.40	.10	0	0	.20
14			3.8	14	14	12	3.2	.40	.10	0	0	.30
15			3.0	13	14	13	2.3	.40	.10	0	0	.50
16			2.3	11	12	14	1.6	.50	0	0	0	.10
17			1.6	9.0	12	12	2.3	.50	0	0	0	0
18			1.2	8.5	12	12	3.4	.60	0	0	0	0
19			1.9	7.5	29	12	3.8	.50	0	0	0	0
20			2.5	6.3	22	11	3.4	.50	0	.10	0	0
21			2.5	5.9	17	11	3.4	.40	0	0	0	0
22			2.5	5.6	16	11	5.2	.30	.10	0	0	0
23			2.3	5.6	18	11	0	.40	.40	0	0	0
24			95	4.8	21	10	0	.30	.40	0	0	0
25			94	4.1	24	8.0	.20	.30	.30	0	0	0
26			37	4.1	28	4.5	.70	.20	.30	0	0	0
27			25	3.8	22	3.0	1.6	.20	.30	0	0	0
28			323	3.0	20	1.9	2.1	.20	.20	0	0	0
29			294	104	------	2.5	1.9	.20	0	0	0	0
30			96	245	------	2.3	1.9	.20	0	0	0	0
31		------	110	72	------	2.1	------	.20	------	0	.20	------
TOTAL			1,141.9	2,397.2	1,225	337.3	82.80	15.90	4.90	.10	.20	3.80
MEAN			36.8	77.3	43.8	10.9	2.76	.51	.16	.003	.007	.13
MAX			323	550	269	19	5.6	1.4	.40	.10	.20	.50
MIN			1.2	3.0	12	1.9	0	.20	0	0	0	0
AC-FT			2,260	4,750	2,430	669	164	32	9.7	.2	.4	7.5

11449010 HIGHLAND CREEK BELOW HIGHLAND CREEK DAM, NEAR KELSEYVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.47	.96	24	4.1	120	5.9	68	21		.05	.42	.52
2	.90	1.1	281	3.4	63	5.9	50	19		.42	.42	.52
3	1.1	1.1	225	3.2	46	5.9	41	18		.43	.41	.52
4	1.2	1.2	345	3.2	36	5.9	36	17		.43	.41	.52
5	1.4	1.2	525	3.2	29	5.9	36	17		.44	.41	.52
6	1.6	1.9	310	3.4	24	5.9	70	16		.44	.41	.52
7	1.9	1.9	86	3.4	21	5.6	56	15		.44	.41	1.5
8	2.1	2.1	55	3.0	19	5.9	47	14		.45	.40	1.6
9	1.9	2.1	40	2.5	18	5.9	40	62		.45	.40	1.6
10	1.0	2.1	32	2.5	16	34	54	32		.45	.40	1.6
11	.60	2.1	27	3.0	15	129	59	.06		.46	.40	1.6
12	.53	2.1	22	3.2	14	174	46	0		.47	.40	1.6
13	.60	2.1	20	2.5	14	150	39	0		.47	.39	1.6
14	.57	2.1	18	2.3	12	100	36	0		.50	.39	1.6
15	.53	2.1	16	2.3	11	109	44	0		.46	.39	1.6
16	.60	2.1	14	2.3	11	510	46	0		.45	.39	1.6
17	.96	2.1	13	2.3	10	198	98	0		.45	.39	1.6
18	.96	1.9	11	2.1	9.5	75	125	0		.45	.38	1.6
19	.96	24	9.5	1.9	9.5	49	154	0		.45	.38	1.6
20	.96	166	9.0	81	8.5	41	112	0		.45	.38	1.6
21	.90	68	7.0	490	6.6	33	88	0		.44	.38	1.6
22	.84	49	7.0	470	6.6	28	66	0		.44	.52	1.6
23	.96	21	7.0	94	6.6	36	77	0		.44	.52	1.6
24	.96	14	6.6	177	7.0	28	62	0		.44	.52	1.6
25	1.0	7.5	6.3	149	11	24	48	0		.44	.52	1.6
26	1.0	5.6	5.9	94	8.5	22	40	0		.43	.52	1.6
27	.96	4.5	4.8	118	6.6	21	36	0		.43	.52	1.6
28	.90	14	4.8	186	6.3	21	32	0		.43	.52	1.6
29	.96	41	4.8	407	------	21	28	0		.43	.52	1.6
30	1.0	21	4.8	261	------	80	24	0		.42	.52	1.6
31	1.0	------	4.8	303	------	110	------	0	------	.42	.52	------
TOTAL	31.32	467.86	2,146.3	2,883.8	565.7	2,045.8	1,758	231.06	0	13.37	13.56	41.42
MEAN	1.01	15.6	69.2	93.0	20.2	66.0	58.6	7.45	0	.43	.44	1.38
MAX	2.1	166	525	490	120	510	154	62	0	.50	.52	1.6
MIN	.47	.96	4.8	1.9	6.3	5.6	24	0	0	.05	.38	.52
AC-FT	62	928	4,260	5,720	1,120	4,060	3,490	458	0	27	27	82

CAL YR 1966 TOTAL 6,712.68 MEAN 18.4 MAX 550 MIN 0 AC-FT 13,310
WTR YR 1967 TOTAL 10,198.19 MEAN 27.9 MAX 525 MIN 0 AC-FT 20,230

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	2.0	0	3.3	53	18	14	2.3	.53	.12	0	.56
2	1.3	1.6	0	3.3	121	17	16	2.3	.51	.15	0	.56
3	2.3	1.6	11	3.3	67	15	13	2.0	.49	0	0	.56
4	2.3	1.0	40	2.9	47	15	12	2.0	.47	0	0	.56
5	2.3	1.0	64	2.9	35	15	11	1.6	.45	0	0	.56
6	2.3	1.0	18	2.6	30	14	11	1.6	1.3	0	0	.32
7	2.0	1.0	67	2.6	25	14	9.9	1.6	1.6	0	0	.32
8	2.0	1.0	20	2.9	22	15	9.5	2.0	1.6	0	0	.32
9	1.6	1.3	11	11	20	13	9.2	1.0	.80	0	0	.56
10	1.6	1.6	8.4	269	19	13	8.8	1.3	.12	0	0	.32
11	1.6	1.6	5.5	39	18	12	8.4	1.3	0	1.3	0	.56
12	2.0	1.6	4.7	20	16	95	8.4	2.0	0	0	0	.32
13	2.0	.80	4.0	19	15	65	8.4	2.3	0	0	0	.56
14	2.0	.56	3.3	259	15	52	8.0	4.0	0	0	0	.56
15	2.0	.56	3.3	248	14	56	8.0	2.9	0	.03	0	.56
16	1.6	.56	3.3	74	23	209	7.7	2.3	0	0	0	.56
17	1.6	.56	5.2	39	61	85	7.7	1.6	0	0	0	.80
18	1.6	.32	43	27	38	53	7.3	1.6	0	0	0	.80
19	2.0	.80	25	21	134	39	7.7	1.6	0	0	0	.80
20	2.0	.35	13	18	200	32	7.3	2.3	0	0	0	1.0
21	2.0	0	10	16	151	28	6.9	2.0	0	0	0	1.0
22	2.0	0	7.3	14	80	24	6.6	2.0	0	0	0	1.0
23	2.3	0	5.8	13	54	23	6.2	1.6	0	0	.12	.80
24	2.3	0	5.5	11	40	20	5.5	1.3	0	0	.56	.42
25	2.3	0	5.1	11	31	18	5.5	1.6	.79	0	.80	0
26	2.0	0	4.7	11	27	16	5.1	2.0	.07	0	.80	0
27	2.0	0	4.3	9.9	24	15	4.7	2.0	0	0	.56	0
28	2.3	0	4.0	19	21	15	4.0	1.6	0	0	.32	0
29	2.0	0	3.6	502	20	13	3.3	1.0	.12	0	.32	0
30	2.0	0	3.6	562	------	12	2.6	.56	0	0	.56	0
31	2.0	------	3.3	331	------	12	------	.55	------	0	.56	------
TOTAL	60.7	20.81	406.9	2,567.7	1,421	1,043	243.7	55.81	8.85	1.60	4.60	14.38
MEAN	1.96	.69	13.1	82.8	49.0	33.6	8.12	1.80	.30	.052	.15	.48
MAX	2.3	2.0	67	562	200	209	16	4.0	1.6	1.3	.80	1.0
MIN	1.3	0	0	2.6	14	12	2.6	.55	0	0	0	0
AC-FT	120	41	807	5,090	2,820	2,070	483	111	18	3.2	9.1	29

CAL YR 1967 TOTAL 8,041.12 MEAN 22.0 MAX 510 MIN 0 AC-FT 15,950
WTR YR 1968 TOTAL 5,849.05 MEAN 16.0 MAX 562 MIN 0 AC-FT 11,600

11449010 HIGHLAND CREEK BELOW HIGHLAND CREEK DAM, NEAR KELSEYVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	0	20	73	251	5.4	6.4	0	.01	.05	.01
2		0	0	16	57	146	6.8	6.4	0	.01	.05	.02
3		0	0	12	48	113	9.8	5.4	0	.01	.05	.01
4		0	0	11	43	82	7.2	5.7	0	.01	.05	.02
5		0	0	8.4	130	63	44	6.0	0	.02	.05	.02
6		0	0	7.8	295	52	42	5.7	0	.02	.05	.02
7		0	0	7.2	126	44	27	5.1	0	.01	.03	.02
8		0	0	6.8	107	40	21	4.8	0	.02	.07	.02
9		0	0	6.4	213	34	19	5.4	0	.05	.23	.03
10		0	171	6.0	449	31	16	5.1	0	.03	.28	.03
11		0	52	48	510	26	12	4.8	0	.03	.28	.05
12		.12	16	364	266	25	11	4.8	0	0	.33	.07
13		0	19	557	123	23	9.8	4.8	0	0	.44	.09
14		0	82	465	78	20	9.0	4.8	0	0	.44	.09
15		0	388	88	202	18	8.4	4.6	.03	.03	.44	.09
16		0	129	49	131	16	8.4	4.3	.15	.05	.33	.12
17		0	34	34	96	18	7.8	4.1	.19	0	.33	.12
18		0	19	84	75	16	7.2	3.6	.12	0	.33	.12
19		0	12	413	57	14	6.8	3.8	0	0	.33	.12
20		0	8.4	510	48	14	6.4	2.0	0	.01	.33	.15
21		0	6.4	567	41	19	6.4	0	.01	.01	.33	.15
22		0	4.8	562	37	15	5.7	0	.01	.01	.33	.15
23		0	91	365	84	11	22	0	.01	.01	.09	.12
24		0	406	78	170	9.8	26	0	.01	.01	.02	.12
25		0	247	180	169	8.4	15	0	.02	.02	.01	.12
26		0	163	475	113	7.8	9.8	0	.02	.03	.01	.09
27		0	67	179	124	7.2	9.0	0	.02	.09	0	.09
28		0	65	96	317	6.8	7.8	0	.01	.09	0	.09
29		0	46	72	------	6.0	7.2	0	.01	.09	0	.09
30		0	34	67	------	6.0	6.4	0	.01	.07	0	.09
31		------	24	54	------	5.7	------	0	------	.05	.01	------
TOTAL	0	.12	2,084.6	5,408.6	4,182	1,148.7	400.3	97.6	.62	.79	5.29	2.33
MEAN	0	.004	67.2	174	149	37.1	13.3	3.15	.021	.026	.17	.078
MAX	0	.12	406	567	510	251	44	6.4	.19	.09	.44	.15
MIN	0	0	0	6.0	37	5.7	5.4	0	0	0	0	.01
AC-FT	0	.2	4,130	10,730	8,290	2,280	794	194	1.2	1.6	10	4.6

CAL YR 1968 TOTAL 7,445.36 MEAN 20.3 MAX 562 MIN 0 AC-FT 14,770
WTR YR 1969 TOTAL 13,330.95 MEAN 36.5 MAX 567 MIN 0 AC-FT 26,440

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.09	0	.59	9.8	38	46	9.8	3.1	.59			
2	.09	0	.59	8.4	32	30	9.0	2.6	.50			
3	.09	0	.59	7.8	26	24	8.4	2.3	.28			
4	.09	0	.59	7.8	24	95	8.4	2.1	.15			
5	.09	0	.77	7.2	21	65	7.8	2.0	.05			
6	.07	0	.86	6.8	19	42	7.2	1.8	0			
7	.05	.01	.95	6.4	18	38	6.8	1.8	0			
8	.02	.01	2.4	34	15	64	6.4	1.8	.06			
9	.01	.07	3.1	429	13	44	6.4	2.0	.50			
10	.01	.44	4.3	404	11	36	6.4	2.0	.59			
11	.01	.68	23	94	11	31	6.0	2.1	.44			
12	.01	.77	219	78	45	25	6.0	2.3	.28			
13	0	.86	96	149	312	22	6.4	2.1	.23			
14	.01	.77	31	594	139	21	6.8	2.1	.28			
15	.03	.77	18	392	70	19	6.4	1.8	.23			
16	.01	.77	9.0	578	144	16	6.0	1.8	.14			
17	0	.59	8.4	282	210	16	5.7	1.7	0			
18	0	.59	12	124	98	15	4.8	1.5	0			
19	.01	.59	471	87	69	15	4.8	1.5	0			
20	0	.59	271	110	54	14	4.6	1.7	0			
21	0	.68	579	582	43	13	4.3	1.8	0			
22	0	.68	178	469	36	13	4.3	1.7	0			
23	0	.68	165	501	31	13	4.3	1.5	0			
24	0	.68	309	728	26	13	4.1	1.5	0			
25	0	.68	94	672	23	13	4.1	1.2	0			
26	0	.68	57	562	21	12	3.8	.95	0			
27	0	.68	40	307	20	11	3.8	.95	0			
28	0	.68	29	118	23	11	3.6	.86	0			
29	0	.68	21	75	------	11	3.1	.86	0			
30	0	.59	14	58	------	11	3.1	.86	0			
31	0	------	11	48	------	9.0	------	.77	------			------
TOTAL	.69	14.22	2,670.14	7,529.2	1,592	808.0	172.6	53.05	4.32	0	0	0
MEAN	.022	.47	86.1	243	56.9	26.1	5.75	1.71	.14	0	0	0
MAX	.09	.86	579	728	312	95	9.8	3.1	.59	0	0	0
MIN	0	0	.59	6.4	11	9.0	3.1	.77	0	0	0	0
AC-FT	1.4	28	5,300	14,930	3,160	1,600	342	105	8.6	0	0	0

CAL YR 1969 TOTAL 13,931.28 MEAN 38.2 MAX 579 MIN 0 AC-FT 27,630
WTR YR 1970 TOTAL 12,844.22 MEAN 35.2 MAX 728 MIN 0 AC-FT 25,480

11449100 SCOTTS CREEK NEAR LAKEPORT, CALIF.

LOCATION.--Lat 39°05'44", long 122°57'38", in NE¼NW¼ sec.3, T.14 N., R.10 W., Lake County, on left bank at upstream side of Eickhoff Road bridge, 0.9 mile downstream from small right-bank tributary and 4.2 miles northwest of Lakeport. Prior to Oct. 1, 1968, at site 3.0 miles upstream.

DRAINAGE AREA.--55.2 sq mi. Area at site used prior to Oct. 1, 1968, 52.3 sq mi.

PERIOD OF RECORD.--October 1960 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 1,400 ft (from topographic map). Prior to Oct. 1, 1968, at site 3.0 miles upstream at different datum.

AVERAGE DISCHARGE.--10 years, 82.0 cfs (59,410 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 4, 1966	6,000	13.78	Several months	0
1967	Jan. 21, 1967	3,340	10.97	do.	0
1968	Jan. 29, 1968	a3,100	-	do.	0
1969	Jan. 13, 1969	3,540	12.44	do.	0
1970	Jan. 23, 1970	b11,000	12.10	do.	0

a Maximum daily.
b Includes about 7,500 cfs bypassing gage.

Period of record: Maximum discharge, 11,000 cfs (includes about 7,500 cfs bypassing gage) Jan. 23, 1970 (gage height, 12.10 ft); maximum gage height, 17.88 ft Dec. 22, 1964, site and datum then in use; no flow for several months in each year.

REMARKS.--Small diversions above station for irrigation. No gage-height record Jan. 10-30, 1968. Water-quality records for the water year 1968 are published in reports of the Geological Survey.

COOPERATION.--Records furnished by California Department of Water Resources and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	25	247	566	99	24	9.0	.20			
2		0	19	182	370	86	22	9.0	.20			
3		0	15	268	715	73	20	8.0	.20			
4		0	11	3,840	1,520	62	18	8.0	.10			
5		0	10	2,190	745	62	17	8.0	0			
6		0	9.0	702	467	64	19	9.0	0			
7		0	8.0	398	318	60	20	9.0	0			
8		0	8.0	270	258	58	22	9.0	0			
9		0	8.0	200	173	107	25	9.0	0			
10		0	7.0	172	129	176	28	9.0	0			
11		0	9.0	126	98	124	62	8.0	0			
12		0	12	96	93	107	91	8.0	0			
13		10	11	85	74	108	43	8.0	0			
14		78	9.0	72	63	91	33	7.0	0			
15		134	8.0	67	62	96	25	7.0	0			
16		45	8.0	62	61	108	24	6.0	0			
17		54	7.0	50	60	91	22	6.0	0			
18		250	7.0	45	60	83	21	5.0	0			
19		156	7.0	40	159	90	19	5.0	0			
20		70	7.0	35	96	71	18	4.0	0			
21		43	7.0	32	71	74	17	3.0	0			
22		32	7.0	30	69	65	16	2.0	0			
23		29	6.0	27	69	60	15	1.5	0			
24		265	78	25	88	54	14	1.0	0			
25		255	227	24	105	48	13	.70	0			
26		153	135	23	146	43	13	.40	0			
27		108	96	22	122	39	12	.30	0			
28		66	479	20	108	36	11	.20	0			
29		48	450	200	------	32	10	.20	0			
30		34	330	670	------	29	10	.20	0			
31		------	372	370	------	27	------	.20	------			------
TOTAL	0	1,930	2,392.0	10,590	6,865	2,323	704	160.70	.70	0	0	0
MEAN	0	61.0	77.2	342	245	74.9	23.5	5.18	.023	0	0	0
MAX	0	265	479	3,840	1,520	176	91	9.0	.20	0	0	0
MIN	0	0	6.0	20	60	27	10	.20	0	0	0	0
AC-FT	0	3,630	4,740	21,010	13,620	4,610	1,400	319	1.4	0	0	0

CAL YR 1965 TOTAL 26,943.80 MEAN 73.8 MAX 4,370 MIN 0 AC-FT 53,440
WTR YR 1966 TOTAL 24,865.40 MEAN 68.1 MAX 3,840 MIN 0 AC-FT 49,320

11449100 SCOTTS CREEK NEAR LAKEPORT, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	41	15	518	23	276	115	15	.50		
2		0	822	13	310	23	240	104	178	.50		
3		0	372	13	209	23	216	92	66	.40		
4		0	1,010	13	156	22	188	73	42	.30		
5		0	1,040	12	123	20	161	64	32	.20		
6		0	484	10	101	19	323	62	27	.20		
7		0	284	10	89	19	314	61	24	.10		
8		0	177	9.9	78	19	257	59	21	0		
9		0	141	8.7	71	18	210	59	19	0		
10		0	248	8.1	69	58	230	62	17	0		
11		0	160	7.9	66	136	232	57	16	0		
12		0	127	7.7	62	208	190	52	15	0		
13		0	122	6.7	59	276	166	45	14	0		
14		0	100	6.4	55	234	164	41	12	0		
15		0	83	5.7	51	370	174	38	11	0		
16		0	70	5.5	49	1,650	161	36	10	0		
17		0	61	5.4	44	577	425	34	8.8	0		
18		0	50	4.9	41	204	510	30	7.5	0		
19		79	44	5.1	37	98	480	28	6.4	0		
20		275	40	602	33	97	384	26	5.4	0		
21		173	36	2,130	31	75	327	24	4.9	0		
22		119	31	652	30	60	233	23	4.2	0		
23		35	30	213	30	136	324	21	3.7	0		
24		14	28	448	28	130	371	19	3.3	0		
25		7.2	26	422	32	113	293	18	2.6	0		
26		3.7	22	1,010	27	101	238	17	1.8	0		
27		2.4	20	966	25	91	224	16	1.3	0		
28		25	19	1,040	23	94	177	16	.80	0		
29		51	19	1,610	------	87	151	16	.50	0		
30		37	17	1,010	------	122	130	14	.30	0		
31		------	17	1,040	------	254	------	14	------	0		------
TOTAL	0	821.3	5,741	11,311.0	2,447	5,357	7,769	1,336	570.50	2.20	0	0
MEAN	0	27.4	185	365	87.4	173	259	43.1	19.0	.071	0	0
MAX	0	275	1,040	2,130	518	1,650	510	115	178	.50	0	0
MIN	0	0	17	4.9	23	18	130	14	.30	0	0	0
AC-FT	0	1,630	11,390	22,440	4,850	10,630	15,410	2,650	1,130	4.4	0	0

CAL YR 1966 TOTAL 27,205.70 MEAN 74.5 MAX 3,840 MIN 0 AC-FT 53,960
WTR YR 1967 TOTAL 35,355.00 MEAN 96.9 MAX 2,130 MIN 0 AC-FT 70,130

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	4.8	232	76	49	10				
2			0	4.3	566	64	42	9.3				
3			148	3.5	378	54	36	8.9				
4			28	3.8	248	49	34	8.5				
5			186	4.0	178	48	32	8.1				
6			37	3.8	132	43	30	7.7				
7			145	3.8	105	63	29	7.7				
8			44	4.8	87	71	28	7.0				
9			18	7.0	74	48	26	6.6				
10			11	1,000	71	41	24	6.0				
11			7.7	150	60	37	24	5.7				
12			4.3	90	55	240	23	5.7				
13			3.5	83	48	278	22	6.0				
14			2.3	690	42	289	22	7.7				
15			2.5	600	39	242	22	6.0				
16			2.3	275	115	586	21	4.8				
17			2.9	180	255	370	20	4.0				
18			94	130	175	251	18	3.5				
19			57	105	887	186	18	3.5				
20			28	85	925	155	16	4.0				
21			17	75	676	125	15	3.8				
22			14	65	427	111	13	4.0				
23			12	57	303	103	13	3.3				
24			12	54	223	82	13	2.9				
25			12	50	167	76	13	2.9				
26			11	49	136	67	12	2.5				
27			8.5	47	113	57	12	1.8				
28			7.4	70	98	50	11	1.2				
29			6.3	3,100	84	44	11	.20				
30			5.7	950	------	40	11	0				
31		------	4.8	342	------	38	------	0	------			------
TOTAL	0	0	932.2	8,286.8	6,899	3,984	660	153.30	0	0	0	0
MEAN	0	0	30.1	267	238	129	22.0	4.95	0	0	0	0
MAX	0	0	186	3,100	925	586	49	10	0	0	0	0
MIN	0	0	0	3.5	39	37	11	0	0	0	0	0
AC-FT	0	0	1,850	16,440	13,680	7,900	1,310	304	0	0	0	0

CAL YR 1967 TOTAL 29,724.90 MEAN 81.4 MAX 2,130 MIN 0 AC-FT 58,960
WTR YR 1968 TOTAL 20,915.30 MEAN 57.1 MAX 3,100 MIN 0 AC-FT 41,490

11449100 SCOTTS CREEK NEAR LAKEPORT, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	101	365	849	33	22	.70			
2			0	80	345	632	36	22	.70			
3			0	65	271	544	40	20	.60			
4			0	55	228	418	33	20	.60			
5			0	49	358	345	79	19	.50			
6			0	41	777	283	72	17	.50			
7			0	38	728	228	58	16	.50			
8			0	35	559	192	51	15	.60			
9			0	31	1,660	161	53	16	.60			
10			586	29	897	142	49	16	.60			
11			183	262	1,490	122	42	14	.50			
12			79	1,090	1,060	110	39	14	.50			
13			67	2,260	552	98	38	13	.40			
14			287	826	454	86	35	13	.30			
15			967	422	950	78	32	13	.20			
16			318	259	684	73	30	12	.20			
17			125	182	454	80	29	9.7	.10			
18			76	346	332	73	28	7.7	.20			
19			54	1,400	245	66	26	7.7	.30			
20			37	2,190	186	66	24	7.4	.20			
21			27	2,380	152	68	23	6.8	.30			
22			25	1,160	135	58	22	5.9	.20			
23			873	559	159	53	45	4.0	.10			
24			1,870	398	395	50	59	3.4	.10			
25			1,320	513	465	45	40	4.2	0			
26			699	1,450	377	43	33	3.8	0			
27			362	740	472	41	30	3.6	0			
28			361	514	1,240	38	27	3.0	0			
29			250	361	------	36	25	1.8	0			
30			174	297	------	35	24	1.3	0			
31		------	129	242	------	34	------	.90	------			------
TOTAL	0	0	8,869	18,375	15,990	5,147	1,155	333.20	9.50	0	0	0
MEAN	0	0	286	593	571	166	38.5	10.7	.32	0	0	0
MAX	0	0	1,870	2,380	1,660	849	79	22	.70	0	0	0
MIN	0	0	0	29	135	34	22	.90	0	0	0	0
AC-FT	0	0	17,590	36,450	31,720	10,210	2,290	661	19	0	0	0

CAL YR 1968 TOTAL 28,852.10 MEAN 78.8 MAX 3,100 MIN 0 AC-FT 57,230
WTR YR 1969 TOTAL 49,878.70 MEAN 137 MAX 2.380 MIN 0 AC-FT 98,930

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	38	169	95	25	8.7	1.1			
2			0	33	144	67	24	8.0	1.1			
3			0	30	125	58	23	7.7	1.0			
4			0	28	112	187	22	7.1	.90			
5			0	25	101	169	20	6.4	.80			
6			0	24	93	122	20	6.8	.70			
7			0	24	87	121	19	6.7	.80			
8			0	110	81	226	18	6.8	1.0			
9			0	1,780	76	174	17	7.5	1.0			
10			0	997	71	160	17	7.7	.90			
11			0	398	67	136	16	7.9	.80			
12			166	475	122	113	16	8.9	.80			
13			121	724	763	100	16	7.7	.80			
14			53	2,380	403	93	17	6.1	.80			
15			36	1.100	243	82	17	5.5	.70			
16			20	2.530	529	73	16	4.9	.70			
17			16	1,580	733	64	15	4.4	.70			
18			35	705	411	57	14	4.2	.60			
19			940	469	280	51	14	3.8	.70			
20			493	617	209	47	13	3.6	.70			
21			1,180	2,470	163	43	13	3.5	.50			
22			297	1.560	131	42	12	3.1	.30			
23			482	3,980	107	41	12	2.7	0			
24			632	3.030	95	39	12	2.2	0			
25			299	1,200	84	37	12	1.9	0			
26			218	597	76	35	13	1.7	0			
27			139	1.120	69	33	14	1.5	0			
28			94	507	75	31	11	1.4	0			
29			70	337	------	30	10	1.0	0			
30			53	254	------	29	9.7	.90	0			
31		------	43	199	------	27	------	1.2	------			------
TOTAL	0	0	5,387	29,321	5,619	2,582	477.7	151.50	17.40	0	0	0
MEAN	0	0	174	946	201	83.3	15.9	4.89	.58	0	0	0
MAX	0	0	1,180	3,980	763	226	25	8.9	1.1	0	0	0
MIN	0	0	0	24	67	27	9.7	.90	0	0	0	0
AC-FT	0	0	10,690	58,160	11,150	5,120	948	301	35	0	0	0

CAL YR 1969 TOTAL 46,396.70 MEAN 127 MAX 2,380 MIN 0 AC-FT 92,030
WTR YR 1970 TOTAL 43,555.60 MEAN 119 MAX 3,980 MIN 0 AC-FT 86,390

11449350 BURNS VALLEY CREEK NEAR CLEARLAKE HIGHLANDS, CALIF.

LOCATION.--Lat 38°58'33", long 122°36'42", in SE¼ sec.15, T.13 N., R.7 W., Lake County, on right bank 500 ft downstream from small right-bank tributary and 2.7 miles northeast of Clearlake Highlands.

DRAINAGE AREA.--4.37 sq mi.

PERIOD OF RECORD.--January 1963 to September 1969. Annual maximum, water year 1970.

GAGE.--Crest-stage gage. Datum of gage is 1,390.10 ft above mean sea level. Prior to Sept. 30, 1969, water-stage recorder at present site and datum.

AVERAGE DISCHARGE.--6 years (1963-69), 1.53 cfs (1,110 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (80 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Dec. 28, 1965	1015	*109	3.07	Jan. 29, 1967	0245	134	3.30	Dec. 24, 1968	0700	97	2.95
Jan. 4, 1966	1930	89	2.88	Mar. 16, 1967	0100	226	4.03	Jan. 21, 1969	0430	428	5.24
Feb. 3, 1966	2400	82	2.81					Jan. 25, 1969	2400	344	4.82
				Jan. 14, 1968	1845	89	2.87	Feb. 5, 1969	2200	*430	5.25
Dec. 2, 1966	1515	173	3.62	Jan. 29, 1968	1000	*552	5.86	Feb. 11, 1969	1730	139	3.34
Dec. 4, 1966	2100	108	3.06	Feb. 2, 1968	0245	121	3.18	Feb. 15, 1969	0645	162	3.53
Jan. 21, 1967	1045	*282	4.41	Feb. 21, 1968	0215	98	2.96	Feb. 28, 1969	1100	164	3.55
Jan. 24, 1967	1215	151	3.44	Mar. 16, 1968	0600	165	3.56				
								Jan. 9, 1970	-	*584	6.02

No flow for several months in each year.

Period of record: Maximum discharge, 552 cfs Jan. 29, 1968 (gage height, 5.86 ft); no flow for several months in each year.

REMARKS.--Records good. No gage-height record June 1 to July 26, 1967. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	0	4.1	11	.70	0					
2		0	0	2.4	4.3	.50	.10					
3		0	0	1.9	18	.30	0					
4		0	0	37	35	.30	0					
5		0	0	25	14	.30	0					
6		0	0	7.1	11	.30	0					
7		.10	0	3.5	5.5	.20	0					
8		0	0	2.4	3.5	.20	.10					
9		0	0	1.6	2.4	.30	.10					
10		0	0	1.1	1.9	.20	0					
11		0	0	.60	1.2	.20	0					
12		0	0	.30	1.0	.20	0					
13		.30	0	.20	.70	.20	0					
14		.10	0	.10	.50	.20	0					
15		.10	0	.10	.30	.10	0					
16		0	0	.10	.20	.10	0					
17		.10	0	.10	.20	.10	0					
18		.60	0	0	.30	.10	0					
19		.90	0	0	4.5	.10	0					
20		.20	0	0	1.7	.10	0					
21		.10	0	0	1.1	.10	0					
22		.10	0	0	1.0	.10	0					
23		.10	0	0	1.0	.10	0					
24		2.0	.50	0	1.6	.10	0					
25		1.6	.80	0	1.7	.10	0					
26		.40	.30	0	1.7	.10	0					
27		.20	.30	0	1.1	.10	0					
28		.10	39	0	.90	.10	0					
29		.10	16	6.5	------	.10	0					
30		.10	9.9	17	------	.10	0					
31		------	9.9	4.1	------	.10	------		------			------
TOTAL	0	7.20	76.70	115.20	127.30	5.80	.30	0	0	0	0	0
MEAN	0	.24	2.47	3.72	4.55	.19	.010	0	0	0	0	0
MAX	0	2.0	39	37	35	.70	.10	0	0	0	0	0
MIN	0	0	0	0	.20	.10	0	0	0	0	0	0
AC-FT	0	14	152	228	252	12	.6	0	0	0	0	0

CAL YR 1965 TOTAL 477.40 MEAN 1.31 MAX 186 MIN 0 AC-FT 947
WTR YR 1966 TOTAL 332.50 MEAN .91 MAX 39 MIN 0 AC-FT 660

11449350 BURNS VALLEY CREEK NEAR CLEARLAKE HIGHLANDS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.10	0	7.9	0	2.3	.90	.03			
2		0	22	0	5.2	0	1.2	.72	.15			
3		0	6.5	0	3.5	0	.86	.58	.09			
4		0	34	0	2.6	0	.76	.49	.04			
5		0	29	0	1.9	0	.66	.44	.02			
6		0	17	0	1.5	0	7.1	.37	.02			
7		0	7.7	0	1.2	0	4.7	.31	.01			
8		0	4.7	0	1.0	0	2.6	.25	.01			
9		0	3.3	0	.80	0	1.6	.22	.01			
10		0	5.7	0	.70	.20	3.5	.22	.01			
11		0	2.9	0	.50	.20	2.8	.21	0			
12		0	2.0	0	.40	6.3	1.6	.19	0			
13		0	1.9	0	.40	9.2	1.1	.17	0			
14		0	1.3	0	.20	5.0	.86	.16	0			
15		.10	.80	0	.20	20	1.6	.16	0			
16		0	.30	0	.20	52	1.1	.15	0			
17		0	.10	0	.20	9.6	4.3	.14	0			
18		0	.10	0	.20	5.5	6.3	.13	0			
19		.30	.10	0	.10	3.5	4.3	.13	0			
20		.10	.10	6.3	.10	2.8	2.3	.12	0			
21		.10	.10	84	.10	2.1	7.7	.11	0			
22		.50	.10	15	.10	1.7	4.5	.11	0			
23		0	.10	6.0	.10	1.6	11	.09	0			
24		0	0	57	.10	1.0	16	.09	0			
25		0	0	15	.10	.80	5.2	.08	0			
26		0	0	35	.10	.60	3.3	.07	0			
27		0	0	18	.10	.50	2.4	.06	0			
28		.50	0	28	.10	.30	2.1	.05	0			
29		1.3	0	47	------	.19	1.7	.05	0			
30		.20	0	28	------	2.4	1.2	.04	0			
31		------	0	16	------	7.7	------	.03	------			------
TOTAL	0	3.10	139.90	355.3	29.60	133.19	106.64	6.84	.39	0	0	0
MEAN	0	.10	4.51	11.5	1.06	4.30	3.55	.22	.013	0	0	0
MAX	0	1.3	34	84	7.9	52	16	.90	.15	0	0	0
MIN	0	0	0	0	.10	0	.66	.03	0	0	0	0
AC-FT	0	6.1	277	705	59	264	212	14	.8	0	0	0

CAL YR 1966 TOTAL 391.60 MEAN 1.07 MAX 37 MIN 0 AC-FT 777
WTR YR 1967 TOTAL 774.96 MEAN 2.12 MAX 84 MIN 0 AC-FT 1,540

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	0	0	6.6	.39	.30					
2		0	0	0	36	.22	.05					
3		0	.02	0	8.4	.15	.02					
4		0	0	0	4.8	.10	.02					
5		0	0	0	3.2	.10	.01					
6		0	0	0	2.1	.05	.01					
7		0	.01	0	1.5	.10	.01					
8		0	0	0	1.1	.22	.01					
9		0	0	0	.88	.05	.01					
10		0	0	4.3	.63	.03	0					
11		0	0	.10	.39	.03	0					
12		0	0	.03	.30	1.8	.01					
13		.01	0	.50	.22	2.8	0					
14		0	0	34	.15	2.8	0					
15		0	0	16	.10	1.4	0					
16		0	0	4.8	13	34	0					
17		0	0	2.1	19	8.4	0					
18		0	0	1.1	5.3	3.8	0					
19		0	0	.50	36	1.9	0					
20		0	0	.22	20	1.0	0					
21		0	0	.10	23	.75	0					
22		0	0	.05	8.4	.50	0					
23		0	0	.03	5.0	.30	0					
24		0	0	.03	3.0	.22	0					
25		0	0	.03	2.1	.15	0					
26		0	0	.02	1.4	.10	0					
27		0	0	.02	1.0	.05	0					
28		0	0	2.1	.63	.03	0					
29		0	0	261	.50	.03	0					
30		0	0	35	------	.02	0					
31		------	0	9.8	------	.02	------		------			------
TOTAL	0	.01	.03	371.83	204.70	61.51	.45	0	0	0	0	0
MEAN	0	.0003	.001	12.0	7.06	1.98	.015	0	0	0	0	0
MAX	0	.01	.02	261	36	34	.30	0	0	0	0	0
MIN	0	0	0	0	.10	.02	0	0	0	0	0	0
AC-FT	0	.02	.06	738	406	122	.9	0	0	0	0	0

CAL YR 1967 TOTAL 632.00 MEAN 1.73 MAX 84 MIN 0 AC-FT 1,250
WTR YR 1968 TOTAL 638.53 MEAN 1.74 MAX 261 MIN 0 AC-FT 1,270

11449350 BURNS VALLEY CREEK NEAR CLEARLAKE HIGHLANDS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	0	.41	5.0	18	.08	.01				
2		0	0	.33	2.8	12	.12	.01				
3		0	0	.27	2.0	8.1	.12	.01				
4		0	0	.22	1.7	5.3	.12	.01				
5		0	0	.17	57	3.8	.28	0				
6		0	0	.14	35	2.8	.22	0				
7		0	0	.10	8.7	2.4	.12	0				
8		0	0	.08	5.4	1.9	.08	0				
9		0	0	.05	6.5	1.6	.05	0				
10		0	.05	.05	4.4	1.7	.05	0				
11		0	0	.22	32	1.2	.05	0				
12		0	0	2.0	14	1.1	.05	0				
13		0	.03	25	6.4	.82	.05	0				
14		.02	.26	4.8	16	.70	.05	0				
15		0	13	2.0	49	.49	.05	0				
16		0	1.5	1.3	15	.49	.05	0				
17		0	.35	.82	9.0	.59	.05	0				
18		0	.12	13	7.4	.42	.05	0				
19		0	.05	24	5.1	.35	.03	0				
20		0	.01	33	3.8	.42	.05	0				
21		0	0	95	3.0	.42	.05	0				
22		0	0	14	2.8	.28	.05	0				
23		0	2.1	5.5	13	.22	.16	0				
24		0	29	5.0	26	.12	.05	0				
25		0	21	24	20	.12	.05	0				
26		0	1.3	48	7.6	.12	.05	0				
27		0	.70	9.3	32	.12	.03	0				
28		0	.52	5.1	56	.12	.03	0				
29		0	.88	3.2	------	.12	.03	0				
30		0	.70	5.0	------	.12	.01	0				
31		------	.52	3.8	------	.08	------	0	------			------
TOTAL	0	.02	72.09	325.86	446.6	66.02	2.23	.04	0	0	0	0
MEAN	0	.0007	2.33	10.5	16.0	2.13	.074	.001	0	0	0	0
MAX	0	.02	29	95	57	18	.28	.01	0	0	0	0
MIN	0	0	0	.05	1.7	.08	.01	0	0	0	0	0
AC-FT	0	.04	143	646	886	131	4.4	.08	0	0	0	0

CAL YR 1968 TOTAL 710.60 MEAN 1.94 MAX 261 MIN 0 AC-FT 1,410
WTR YR 1969 TOTAL 912.86 MEAN 2.50 MAX 95 MIN 0 AC-FT 1,810

11449450 COPSEY CREEK NEAR LOWER LAKE, CALIF.

LOCATION.--Lat 38°53'21", long 122°35'47", in NE¼ sec.14, T.12 N., R.7 W., Lake County, on left bank 1.7 miles southeast of Lower Lake and 2.5 miles upstream from mouth.

DRAINAGE AREA.--13.2 sq mi.

PERIOD OF RECORD.--October 1960 to September 1968 (discontinued).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 1,400 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 13.6 cfs (9,850 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-68 are contained in the following table:

	Maximum			Minimum	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 4, 1966	1,490	9.99	Many days	0
1967	Jan. 21, 1967	1,760	10.90	do.	0
1968	Jan. 29, 1968	1,450	9.85	do.	0

Period of record: Maximum discharge, 2,340 cfs Jan. 30, 1963 (gage height, 14.15 ft); no flow for many days in each year.

REMARKS.--Minor diversions above station for irrigation.

COOPERATION.--Records furnished by California Department of Water Resources and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.20	2.3	28	123	12	3.5	1.6	.60	.20	0	.10
2	.10	.10	1.6	22	37	10	3.4	1.6	.60	.30	0	0
3	.20	.10	1.5	76	246	9.2	3.1	1.5	.60	.30	0	0
4	.10	.10	1.4	981	353	8.8	3.0	1.4	.60	.30	0	0
5	.20	.10	1.3	407	95	8.7	2.8	1.4	.50	.10	0	0
6	.20	.10	1.1	100	57	8.5	2.8	1.5	.60	.10	0	0
7	.20	.30	1.1	55	39	7.8	2.8	1.4	.60	0	0	0
8	.10	.50	1.2	41	30	7.8	2.7	1.2	.60	.10	0	0
9	.10	.30	1.1	30	23	8.1	3.4	1.4	.50	.10	0	0
10	.20	.30	1.1	24	19	8.3	4.0	1.5	.50	.10	0	.10
11	.30	.30	1.9	20	16	7.4	3.2	1.1	.40	.20	0	0
12	.20	.50	5.5	17	14	7.6	3.4	1.2	.40	.10	0	.10
13	.20	38	2.8	16	12	7.6	2.9	1.1	.40	.10	0	.10
14	.20	43	2.0	14	11	6.2	2.7	1.0	.40	.10	0	.10
15	.20	21	1.7	12	9.9	6.4	2.5	.70	.40	.30	0	.10
16	.20	3.0	1.4	10	9.2	6.2	2.6	.80	.30	0	0	0
17	.30	40	1.4	9.1	9.1	5.8	2.5	.60	.40	0	0	.10
18	.30	76	1.2	8.4	9.2	5.6	2.2	.50	.30	0	0	.10
19	.20	48	1.1	8.2	160	5.2	2.3	.50	.30	0	0	.10
20	.30	9.6	1.0	6.8	26	5.2	2.1	.50	.30	.10	0	.10
21	.20	4.8	1.1	7.0	18	4.9	2.0	.60	.40	0	0	0
22	.10	3.0	1.2	6.3	18	4.6	2.1	.40	.40	0	0	0
23	.20	5.4	.90	6.2	18	4.7	2.1	.40	.40	0	0	0
24	.20	109	98	5.8	26	4.7	2.1	.50	.40	0	0	0
25	.10	25	49	5.2	26	4.5	2.2	.30	.40	0	0	0
26	.20	10	20	5.0	18	4.4	2.1	.30	.40	0	0	0
27	.20	6.8	15	5.7	15	4.3	2.0	.40	.30	0	0	0
28	.20	4.7	379	5.1	13	4.1	1.9	.60	.20	0	0	0
29	.20	3.8	134	66	------	4.0	1.9	.70	.30	0	0	0
30	.20	3.0	58	101	------	3.9	1.6	.70	.20	0	.10	0
31	.20	------	52	26	------	3.7	------	.70	------	0	.20	------
TOTAL	5.90	457.00	841.90	2,124.8	1,450.4	200.2	77.9	28.10	12.70	2.50	.30	1.00
MEAN	.19	15.2	27.2	68.5	51.8	6.46	2.60	.91	.42	.081	.010	.033
MAX	.30	109	379	981	353	12	4.0	1.6	.60	.30	.20	.10
MIN	.10	.10	.90	5.0	9.1	3.7	1.6	.30	.20	0	0	0
AC-FT	12	906	1,670	4,210	2,880	397	155	56	25	5.0	.6	2.0

CAL YR 1965 TOTAL 5,238.90 MEAN 14.4 MAX 1,040 MIN 0 AC-FT 10,390
WTR YR 1966 TOTAL 5,202.70 MEAN 14.3 MAX 981 MIN 0 AC-FT 10,320

11449450 COPSEY CREEK NEAR LOWER LAKE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	29	3.8	52	5.1	39	19	4.3	1.2	.61	.17
2	0	0	394	3.6	35	4.9	25	17	17	1.2	.61	.17
3	0	0	123	3.6	28	4.9	21	16	8.3	1.2	.53	.20
4	0	0	653	3.8	22	4.9	19	16	5.0	1.1	.46	.17
5	.05	0	290	3.4	18	4.4	26	15	4.2	1.1	.53	.20
6	.17	0	112	3.0	16	4.4	177	12	4.1	.97	.53	.20
7	.17	0	44	2.9	14	4.4	52	11	4.1	.87	.46	.20
8	.17	0	31	2.9	12	4.3	32	10	3.8	.87	.53	.20
9	.14	0	28	2.9	12	4.4	26	9.6	3.6	.87	.53	.25
10	.11	0	34	2.8	11	32	50	9.6	3.4	.87	.53	.25
11	.20	0	23	2.6	9.9	48	35	8.7	3.4	.77	.53	.29
12	.29	0	19	2.6	9.6	105	25	8.0	3.0	.87	.40	.25
13	.29	0	18	2.6	8.9	79	21	7.4	3.0	1.3	.46	.25
14	.25	0	15	2.6	8.1	38	19	6.9	3.0	.61	.40	.25
15	.20	3.9	14	2.4	7.8	168	25	6.6	3.0	.34	.34	.25
16	.06	4.5	12	2.3	7.3	537	20	6.2	3.0	.69	.34	.29
17	0	.61	11	2.4	7.5	86	132	6.0	2.8	.69	.34	.40
18	0	.61	9.9	2.4	6.9	46	109	5.6	2.8	.69	.34	.40
19	0	216	9.2	2.4	6.6	33	72	5.2	2.8	.69	.29	.34
20	0	183	7.3	132	5.7	33	42	4.9	2.8	.69	.25	.25
21	0	74	6.9	915	5.7	30	80	5.0	2.4	.77	.29	.29
22	0	33	6.3	108	5.7	24	53	4.7	2.2	.77	.25	.34
23	0	15	5.9	45	5.8	29	138	4.5	2.2	.77	.25	.40
24	0	10	5.7	281	5.7	20	98	4.2	2.0	.77	.25	.34
25	0	8.7	5.3	74	7.0	18	52	4.1	1.9	.77	.25	.29
26	0	7.8	5.0	127	6.9	16	39	3.9	1.7	.69	.25	.29
27	0	6.9	4.7	86	5.0	15	33	3.9	1.6	.69	.25	.29
28	0	59	4.7	279	4.8	15	27	3.3	1.6	.69	.20	.34
29	0	50	4.7	455	------	14	23	3.4	1.4	.69	.25	.34
30	0	18	4.4	322	------	72	21	3.4	1.3	.61	.25	.40
31	0	------	4.1	132	------	91	------	3.4	------	.61	.25	------
TOTAL	2.10	691.02	1,934.1	3,011.0	344.9	1,590.7	1,531	244.5	105.7	25.42	11.75	8.30
MEAN	.068	23.0	62.4	97.1	12.3	51.3	51.0	7.89	3.52	.82	.38	.28
MAX	.29	216	653	915	52	537	177	19	17	1.3	.61	.40
MIN	0	0	4.1	2.3	4.8	4.3	19	3.3	1.3	.34	.20	.17
AC-FT	4.2	1,370	3,840	5,970	684	3,160	3,040	485	210	50	23	16

CAL YR 1966 TOTAL 6,525.12 MEAN 17.9 MAX 981 MIN 0 AC-FT 12,940
WTR YR 1967 TOTAL 9,500.49 MEAN 26.0 MAX 915 MIN 0 AC-FT 18,840

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.34	.34	1.1	.61	32	12	12	1.6	.77	.34	0	
2	.69	.34	.97	.61	85	10	7.2	1.6	.77	.46	0	
3	.61	.29	11	.61	36	9.6	5.2	1.6	.97	.46	0	
4	.40	.34	31	.61	26	9.2	4.7	1.6	.97	.34	0	
5	.46	.34	8.8	.61	20	8.8	4.7	1.6	.97	.29	0	
6	.40	.34	1.7	.61	17	8.4	4.4	1.3	.87	.20	0	
7	.40	.34	30	.61	15	8.8	4.1	1.3	.61	.17	0	
8	.34	.40	2.4	.69	14	8.8	3.9	1.3	.53	.14	0	
9	.34	.46	1.2	1.1	13	8.0	3.6	1.3	.46	.17	0	
10	.34	.46	.77	219	12	6.9	3.4	1.3	.46	.17	0	
11	.34	.46	.69	15	12	6.9	3.4	1.3	.46	.14	0	
12	.34	.53	.61	11	11	25	3.4	1.3	.46	.11	0	
13	.34	1.1	.61	14	10	37	3.2	1.4	.46	.08	0	
14	.25	1.4	.53	223	9.6	37	3.0	1.4	.53	.11	.03	
15	.25	.61	.97	138	9.2	20	3.0	1.2	.40	.14	.03	
16	.29	.46	.87	40	201	171	2.8	1.2	.34	.20	.02	
17	.29	.46	.77	21	262	33	2.8	.97	.29	.17	.01	
18	.29	.53	4.4	16	48	20	2.8	.97	.20	.14	.02	
19	.29	.61	2.4	13	201	17	2.4	.97	.34	.14	.08	
20	.29	.61	1.6	10	97	14	2.4	.97	.40	.08	.25	
21	.34	.61	.87	9.2	95	13	2.2	.87	.61	.08	.40	
22	.40	.53	.77	8.4	42	12	2.2	.97	.61	.06	.20	
23	.40	.61	.69	7.6	29	11	2.2	.97	.53	.03	.09	
24	.34	.69	.69	7.6	24	9.6	2.2	1.1	.53	.06	.08	
25	.34	.69	.61	7.2	19	8.8	2.2	1.1	.53	.01	.06	
26	.34	.69	.61	6.9	17	8.4	2.2	.97	.53	.01	.11	
27	.34	.69	.61	6.9	14	7.2	2.0	.97	.46	.02	.08	
28	.34	.87	.61	12	13	6.5	1.9	.97	.40	.01	.08	
29	.29	1.4	.61	918	12	6.5	1.7	.87	.40	0	.06	
30	.25	1.6	.61	245	------	6.5	1.7	.87	.40	0	0	
31	.34	------	.61	53	------	6.9	------	.87	------	0	0	------
TOTAL	11.01	18.80	109.68	2,007.86	1,395.8	567.8	102.9	36.71	16.26	4.33	1.59	0
MEAN	.36	.63	3.54	64.8	48.1	18.3	3.43	1.18	.54	.14	.051	0
MAX	.69	1.6	31	918	262	171	12	1.6	.97	.46	.40	0
MIN	.25	.29	.53	.61	9.2	6.5	1.7	.87	.20	0	0	0
AC-FT	22	37	218	3,980	2,770	1,130	204	73	32	8.6	3.2	0

CAL YR 1967 TOTAL 7,012.76 MEAN 19.2 MAX 915 MIN .17 AC-FT 13,910
WTR YR 1968 TOTAL 4,272.74 MEAN 11.7 MAX 918 MIN 0 AC-FT 8,470

11449460 SEIGLER CREEK AT LOWER LAKE, CALIF.

LOCATION.--Lat 38°54'34", long 122°36'48", in NE¼NE¼ sec.10, T.12 N., R.7 W., Lake County, on left bank 400 ft upstream from highway bridge and 0.2 mile southwest of Lower Lake.

DRAINAGE AREA.--12.5 sq mi.

PERIOD OF RECORD.--October 1965 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 1,364.75 ft above mean sea level.

AVERAGE DISCHARGE.--5 years, 13.0 cfs (9,420 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (500 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Jan. 4, 1966	1845	*569	6.11	Jan. 29, 1968	1745	*915	6.85	Jan. 26, 1969	0015	*1,420	7.64
Dec. 2, 1966	-	704	6.42	Dec. 15, 1968	0915	760	6.54	Dec. 21, 1969	0500	628	6.25
Dec. 4, 1966	-	660	-	Dec. 24, 1968	0730	508	5.95	Jan. 9, 1970	1330	*1,250	7.40
Jan. 21, 1967	1000	*795	6.61	Jan. 13, 1969	0700	553	6.07	Jan. 14, 1970	0815	612	6.18
Mar. 15, 1967	2345	745	6.51	Jan. 21, 1969	0430	585	6.15	Jan. 23, 1970	1945	1,110	7.18

No flow for many days in each year.

Period of record: Maximum discharge, 1,420 cfs Jan. 26, 1969 (gage height, 7.64 ft), from rating curve extended above 430 cfs; no flow for many days in each year.

REMARKS.--Records good. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.30	.30	2.9	19	60	10	3.5	1.1	.80			
2	.30	.40	2.5	14	22	9.7	3.4	1.2	.70			
3	.30	.30	2.4	15	142	9.2	3.2	1.1	.70			
4	.30	.30	2.3	329	199	8.7	3.1	1.1	.60			
5	.30	.40	2.2	173	57	8.5	3.1	1.3	.50			
6	.20	.50	2.2	43	37	8.4	3.0	1.4	.90			
7	.20	1.5	2.0	30	28	8.1	2.9	1.3	1.1			
8	.20	2.7	2.2	24	23	8.0	2.9	1.0	.90			
9	.20	1.1	2.2	19	19	9.0	3.4	1.5	.60			
10	.20	.80	2.0	16	16	8.8	4.2	2.0	.40			
11	.20	.80	3.5	14	14	7.9	4.7	1.8	.30			
12	.20	1.5	5.5	12	13	7.3	4.6	1.5	.20			
13	.20	39	3.5	11	11	7.4	3.6	1.3	.20			
14	.20	47	2.9	10	11	7.0	3.1	1.1	.20			
15	.20	39	2.8	9.7	10	6.9	2.8	.90	.10			
16	.20	9.0	2.0	8.6	9.7	7.0	2.7	1.2	.10			
17	.20	42	1.9	8.1	9.4	6.2	2.6	1.2	.10			
18	.20	73	1.7	7.8	9.4	6.1	2.4	.90	.10			
19	.20	25	1.7	7.3	51	5.8	2.4	.70	0			
20	.20	9.8	1.6	6.8	19	5.5	2.2	.60	0			
21	.20	6.3	1.6	6.6	14	5.5	2.1	.60	0			
22	.20	4.7	1.7	6.6	13	5.2	2.0	.70	0			
23	.20	5.8	1.5	6.4	12	4.9	1.6	.80	.10			
24	.20	87	25	6.0	16	4.8	1.6	.70	.10			
25	.20	26	30	5.8	15	4.6	1.6	.70	.10			
26	.20	12	13	5.8	14	4.5	1.7	.60	0			
27	.20	7.3	12	5.3	12	4.4	1.4	.60	0			
28	.20	5.3	230	5.1	11	4.1	1.2	.60	0			
29	.20	4.1	69	48	------	3.9	1.3	.60	0			
30	.20	3.3	34	57	------	3.8	1.2	.80	0			
31	.30	------	39	19	------	3.6	------	.80	------			------
TOTAL	6.80	456.20	506.8	948.9	867.5	204.8	79.5	31.70	8.80	0	0	0
MEAN	.22	15.2	16.3	30.6	31.0	6.61	2.65	1.02	.29	0	0	0
MAX	.30	87	230	329	199	10	4.7	2.0	1.1	0	0	0
MIN	.20	.30	1.5	5.1	9.4	3.6	1.2	.60	0	0	0	0
AC-FT	13	905	1,010	1,880	1,720	406	158	63	17	0	0	0

WTR YR 1966 TOTAL 3,111.00 MEAN 8.52 MAX 329 MIN 0 AC-FT 6,170

NOTE.--NO GAGE-HEIGHT RECORD OCT. 1 TO NOV. 6.

11449460 SEIGLER CREEK AT LOWER LAKE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.89	9.2	2.6	48	4.8	32	20	5.0	1.3	.11	0
2	0	.71	230	2.5	37	4.6	23	17	25	1.3	.25	0
3	0	.21	100	2.5	32	4.6	18	16	12	1.2	.29	0
4	0	.10	370	2.5	27	4.5	15	14	6.4	1.1	.20	0
5	0	.12	150	2.4	23	4.3	19	14	5.3	1.1	.12	0
6	0	.27	57	2.3	19	4.1	66	13	5.0	1.0	.15	.05
7	0	.40	26	2.3	17	4.0	33	12	4.5	.67	.10	.15
8	0	.35	17	2.3	15	3.9	24	11	4.0	.67	.14	.09
9	0	.27	14	2.3	14	3.8	21	10	3.7	.98	.15	.03
10	.02	.27	19	2.2	12	23	34	11	3.4	1.1	.22	0
11	0	.27	12	2.2	11	45	29	10	3.2	1.1	.09	.12
12	.02	.35	9.9	2.3	11	74	21	9.8	3.0	1.1	.18	.08
13	.16	.35	9.3	2.2	10	58	18	9.1	2.9	.64	.15	.10
14	.16	.56	8.0	2.2	9.4	36	18	8.3	2.7	.55	.10	.09
15	.21	20	6.8	2.0	8.9	107	21	7.8	2.6	.61	.06	.07
16	.21	16	5.9	2.0	8.6	275	18	7.4	2.4	.61	.05	.02
17	.27	3.0	5.2	1.9	8.4	68	57	7.0	2.1	.47	.06	.03
18	.21	1.9	4.7	1.9	7.8	45	56	6.2	2.1	.47	.06	.20
19	.16	156	4.4	1.9	7.3	34	44	5.8	2.2	.43	0	.20
20	.16	90	4.3	55	6.6	32	32	5.8	2.2	.51	0	.05
21	.16	47	4.0	435	6.2	29	55	5.3	1.6	.55	0	0
22	.20	24	3.8	76	6.0	24	42	4.9	1.9	.43	0	0
23	.16	10	3.5	34	5.5	25	77	4.7	1.7	.39	0	.10
24	.16	4.0	3.4	128	6.0	19	57	4.2	1.7	.48	0	.12
25	.12	1.8	3.2	57	7.6	17	39	4.0	1.9	.61	0	.14
26	.16	1.5	3.0	76	6.0	14	33	3.5	1.6	.47	.06	.11
27	.16	1.3	2.8	60	5.3	14	31	3.3	1.7	.40	.17	.09
28	.21	16	2.7	99	5.0	14	28	3.3	1.6	.40	.16	.11
29	.40	19	2.8	225	------	13	24	3.7	1.4	.40	.18	.12
30	.47	5.4	2.8	147	------	28	22	3.3	1.4	.22	.06	.16
31	.75	------	2.8	84	------	51	------	3.3	------	.15	0	------
TOTAL	4.53	422.02	1,097.5	1,518.5	380.6	1,083.6	1,007	258.7	116.2	21.41	3.11	2.23
MEAN	.15	14.1	35.4	49.0	13.6	35.0	33.6	8.35	3.87	.69	.10	.074
MAX	.75	156	370	435	48	275	77	20	25	1.3	.29	.20
MIN	0	.10	2.7	1.9	5.0	3.8	15	3.3	1.4	.15	0	0
AC-FT	9.0	837	2,180	3,010	755	2,150	2,000	513	230	42	6.2	4.4

CAL YR 1966 TOTAL 3,665.25 MEAN 10.0 MAX 370 MIN 0 AC-FT 7,270
WTR YR 1967 TOTAL 5,915.40 MEAN 16.2 MAX 435 MIN 0 AC-FT 11,730

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.16	.26	1.5	.99	24	9.1	18	1.9	.70	.02		
2	.86	.26	1.1	.99	51	8.4	12	1.8	.74	.02		
3	.86	.29	15	.99	24	7.6	8.6	1.6	.78	.01		
4	.44	.32	19	.90	16	7.3	7.6	1.7	.62	.01		
5	.54	.41	17	.99	13	7.1	6.8	1.7	.74	0		
6	.44	.54	3.9	.90	10	6.8	6.4	1.8	.78	0		
7	.35	.41	22	.99	9.1	7.6	6.0	1.9	.58	0		
8	.32	.41	4.5	1.3	8.1	8.1	5.8	1.8	.58	0		
9	.32	.47	2.3	3.0	7.6	6.4	5.3	1.8	.44	0		
10	.32	.44	1.6	121	7.1	5.8	5.1	1.7	.41	0		
11	.29	.47	1.4	11	6.4	5.5	4.9	1.9	.35	0		
12	.23	.44	1.3	4.9	6.0	41	4.5	2.0	.32	0		
13	.26	2.0	1.1	6.2	6.0	37	4.4	2.2	.29	0		
14	.20	4.5	.99	134	5.5	26	4.4	2.6	.23	0		
15	.15	1.1	1.2	72	4.7	15	4.0	2.2	.23	0		
16	.18	.78	1.2	25	85	94	3.9	1.9	.19	0		
17	.20	.70	1.4	12	114	33	3.9	1.5	.13	0		
18	.20	.66	11	7.6	32	21	3.7	1.4	.11	0		
19	.18	.70	4.5	5.8	90	15	3.7	1.5	.14	0		
20	.20	.70	2.5	4.5	62	13	3.7	1.6	.11	0		
21	.26	.54	1.9	4.0	52	12	3.5	1.5	.05	0		
22	.35	.54	1.6	3.3	31	11	3.3	1.6	0	0		
23	.32	.58	1.4	2.9	24	10	3.2	1.4	0	0		
24	.32	.58	1.4	2.8	19	9.4	3.3	1.5	.01	0		
25	.29	.54	1.3	2.6	15	8.6	3.0	1.6	.02	0		
26	.32	.58	1.2	2.5	13	7.8	2.8	1.4	.01	0		
27	.32	.62	1.2	2.5	11	7.3	2.4	1.2	.01	0		
28	.32	.90	1.1	11	10	6.8	2.5	1.2	.01	0		
29	.23	2.3	.99	490	9.4	6.4	2.4	.82	.01	0		
30	.23	2.8	.99	128	------	6.2	1.7	.78	.03	0		
31	.26	------	.99	39	------	5.8	------	.70	------	0		------
TOTAL	9.92	25.84	128.56	1,103.65	765.9	466.0	150.8	50.20	8.62	.06	0	0
MEAN	.32	.86	4.15	35.6	26.4	15.0	5.03	1.62	.29	.002	0	0
MAX	.86	4.5	22	490	114	94	18	2.6	.78	.02	0	0
MIN	.15	.26	.99	.90	4.7	5.5	1.7	.70	0	0	0	0
AC-FT	20	51	255	2,190	1,520	924	299	100	17	.1	0	0

CAL YR 1967 TOTAL 4,555.67 MEAN 12.5 MAX 435 MIN 0 AC-FT 9,040
WTR YR 1968 TOTAL 2,709.55 MEAN 7.40 MAX 490 MIN 0 AC-FT 5,370

11449460 SEIGLER CREEK AT LOWER LAKE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.81	1.1	5.5	32	93	6.8	4.3	1.1	.40	.01	0
2	0	2.8	.99	5.0	24	81	8.0	4.3	1.1	.38	.01	0
3	0	2.0	.92	4.4	20	60	9.5	3.9	1.1	.37	.01	0
4	0	1.2	.92	4.1	18	48	8.5	3.9	1.1	.37	.01	0
5	0	.99	.99	3.8	102	41	23	3.8	1.2	.35	0	0
6	0	.92	1.1	3.5	119	36	13	3.5	1.4	.33	0	0
7	0	.99	1.1	3.4	48	32	9.6	3.4	1.4	.31	0	0
8	0	.92	1.9	3.2	52	29	9.0	3.4	1.6	.31	0	0
9	0	.85	2.9	3.0	109	29	8.3	3.4	2.0	.29	0	0
10	0	.99	70	2.8	62	29	8.0	3.2	2.2	.29	0	0
11	.15	.73	14	15	212	24	7.5	3.1	2.2	.33	0	0
12	.92	1.4	5.2	177	89	24	7.1	2.8	2.0	.25	0	0
13	.85	.99	14	256	59	22	6.9	2.8	1.7	.21	0	0
14	.69	1.7	40	41	101	19	6.6	2.8	1.4	.17	0	0
15	.65	3.9	175	21	150	17	6.4	2.8	1.2	.17	0	0
16	.61	2.2	19	16	71	16	5.9	2.6	1.1	.15	0	0
17	.57	1.3	7.8	12	60	16	5.7	2.4	.92	.14	0	0
18	.49	1.9	5.0	80	52	15	5.7	2.4	1.0	.13	0	0
19	.45	1.5	3.9	119	41	14	5.3	2.4	1.1	.15	0	.04
20	.43	1.1	3.1	203	34	14	5.2	2.2	1.0	.11	0	.15
21	.45	.92	2.7	293	30	16	5.0	2.1	.93	.08	0	.27
22	.43	.92	2.5	82	30	13	4.8	2.0	.85	.05	0	.27
23	.43	.92	15	44	65	12	16	1.8	.76	.04	0	.19
24	.49	1.3	174	39	113	11	10	1.8	.66	.03	0	.15
25	.41	1.4	102	171	77	10	6.9	2.0	.64	.03	0	.14
26	.41	1.1	34	248	47	9.4	5.7	2.1	.56	.03	0	.14
27	.43	.99	16	67	140	8.8	5.3	2.4	.54	.03	0	.12
28	.45	.92	22	45	190	8.3	4.8	1.9	.46	.02	0	.23
29	.77	.92	12	34	------	7.9	4.8	1.4	.44	.02	0	.21
30	.99	1.3	8.6	34	------	7.6	4.6	1.3	.43	.02	0	.29
31	.73	------	6.9	31	------	7.2	------	1.2	------	.02	0	------
TOTAL	11.80	39.88	764.62	2,066.7	2,147	770.2	233.9	83.4	34.09	5.58	.04	2.20
MEAN	.38	1.33	24.7	66.7	76.7	24.8	7.80	2.69	1.14	.18	.001	.073
MAX	.99	3.9	175	293	212	93	23	4.3	2.2	.40	.01	.29
MIN	0	.73	.92	2.8	18	7.2	4.6	1.2	.43	.02	0	0
AC-FT	23	79	1,520	4,100	4,260	1,530	464	165	68	11	.08	4.4

CAL YR 1968 TOTAL 3,361.53 MEAN 9.18 MAX 490 MIN 0 AC-FT 6,670
WTR YR 1969 TOTAL 6,159.41 MEAN 16.9 MAX 293 MIN 0 AC-FT 12,220

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.25	.58	1.1	4.6	32	38	7.1	3.7	1.1	.42		0
2	.27	.54	1.1	4.1	29	21	6.8	3.5	.94	.27		0
3	.29	.66	1.1	3.9	26	17	6.6	3.3	.80	.15		0
4	.24	.62	1.2	3.6	24	48	6.4	3.2	.80	.09		0
5	.31	2.7	1.1	3.2	22	26	6.2	3.2	.80	.08		0
6	.33	1.6	1.2	3.1	20	21	6.0	3.3	.80	.06		0
7	.43	1.2	1.1	3.1	19	25	5.8	3.2	.94	.05		0
8	.37	1.7	2.5	64	17	31	6.0	3.3	1.4	.05		0
9	.39	1.2	2.0	507	16	24	5.5	3.2	2.3	.05		0
10	.41	.96	4.1	86	15	21	5.3	3.0	1.8	.06		0
11	.37	.85	18	41	14	19	5.1	3.2	1.4	.06		0
12	.45	.75	72	39	58	18	5.1	3.3	1.0	.07		0
13	.49	.85	23	73	160	16	5.5	3.3	.94	.06		0
14	.71	.85	9.4	239	54	15	5.8	2.8	1.0	.04		0
15	4.5	.90	5.6	101	32	14	5.5	2.4	1.4	.03		0
16	1.9	.90	3.9	263	67	13	5.5	2.0	1.0	.03		0
17	.80	.85	3.2	110	55	12	5.5	2.0	.94	.02		0
18	.62	.90	12	58	40	12	4.9	2.0	.61	.02		.04
19	.54	1.0	174	49	31	11	4.7	1.8	.66	.01		.09
20	.51	1.0	102	63	25	11	4.7	2.0	.66	.01		.12
21	.48	1.1	185	219	22	11	4.7	2.2	.61	.02		.20
22	.48	1.1	26	97	20	10	4.7	1.8	.37	.01		.18
23	.51	1.1	75	383	18	9.9	4.7	1.6	.24	.01		.17
24	.66	1.1	95	265	17	9.7	4.5	1.5	.29	0		.17
25	.66	1.1	26	114	16	9.1	4.2	1.5	.42	0		.14
26	.62	1.2	15	86	15	8.9	4.4	1.5	.47	0		.10
27	.66	1.1	11	129	14	8.4	4.5	1.5	.37	0		.17
28	.66	1.2	8.0	63	23	8.1	4.5	1.4	.44	0		.17
29	.66	1.2	6.6	50	------	7.8	4.2	1.5	.61	0		.27
30	.66	1.1	5.6	42	------	7.8	4.0	1.2	.52	0		.30
31	.58	------	5.1	37	------	7.3	------	.89	------	0		------
TOTAL	20.81	31.91	897.9	3,203.6	901	511.0	158.4	74.29	25.63	1.67	0	2.12
MEAN	.67	1.06	29.0	103	32.2	16.5	5.28	2.40	.85	.054	0	.071
MAX	4.5	2.7	185	507	160	48	7.1	3.7	2.3	.42	0	.30
MIN	.24	.54	1.1	3.1	14	7.3	4.0	.89	.24	0	0	0
AC-FT	41	63	1,780	6,350	1,790	1,010	314	147	51	3.3	0	4.2

CAL YR 1969 TOTAL 6,293.73 MEAN 17.2 MAX 293 MIN 0 AC-FT 12,480
WTR YR 1970 TOTAL 5,828.33 MEAN 16.0 MAX 507 MIN 0 AC-FT 11,560

NOTE.--NO GAGE-HEIGHT RECORD FEB. 9 TO MAR. 10.

11449500 KELSEY CREEK NEAR KELSEYVILLE, CALIF.

LOCATION.--Lat 38°55'39", long 122°50'33", in SE¼SE¼ sec.34, T.13 N., R.9 W., Lake County, on left bank 1.6 miles downstream from Widow Creek and 3.5 miles south of Kelseyville.

DRAINAGE AREA.--36.6 sq mi.

PERIOD OF RECORD.--October 1946 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 1,475.44 ft above mean sea level. Prior to July 16, 1955, at site 600 ft upstream at different datum.

AVERAGE DISCHARGE.--24 years, 74.9 cfs (54,270 acre-ft per year); median of yearly mean discharges, 63 cfs (45,600 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (2,400 cfs, revised), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Dec. 28, 1965	1145	3,040	9.70	Mar. 16, 1967	0045	3,450	10.04	Jan. 26, 1969	0045	*4,140	10.59
Jan. 4, 1966	1930	*4,490	10.84								
				Jan. 10, 1968	0315	3,540	10.12	Dec. 21, 1969	0545	4,030	10.51
Nov. 19, 1966	2015	3,960	10.45	Jan. 29, 1968	1945	*6,420	12.12	Jan. 9, 1970	1445	2,440	8.98
Dec. 2, 1966	1515	4,010	10.49					Jan. 16, 1970	0500	4,120	10.37
Dec. 4, 1966	1600	4,030	10.51	Dec. 15, 1968	-	3,620	10.18	Jan. 21, 1970	0315	2,880	9.40
Jan. 21, 1967	1100	*7,240	12.62	Jan. 13, 1969	0745	3,590	10.16	Jan. 23, 1970	2100	*8,480	13.04
Jan. 29, 1967	0400	3,280	9.90	Jan. 21, 1969	0430	4,120	10.58				

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Sept. 7, 1966	2.3	1969	Oct. 4, 1968	4.0
1967	Oct. 12, 1966	3.3	1970	Sept.27, 1970	3.5
1968	Sept.29, 1968	3.0			

Period of record: Maximum discharge, 8,800 cfs Dec. 21, 1955 (gage height, 12.80 ft); maximum gage height, 13.48 ft Jan. 5, 1965; minimum discharge, 0.5 cfs Sept. 1, 1950, but may have been less during August 1950.

REMARKS.--Records good. No regulation or diversion above station.

REVISIONS (WATER YEARS).--WSP 1285: 1947-48(M), 1950-52(P). WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	5.6	33	178	283	77	34	21	12	5.5	3.6	5.0
2	5.1	5.7	29	136	191	72	33	21	12	5.4	3.7	4.1
3	5.2	5.9	26	221	400	66	32	20	12	5.9	4.0	3.4
4	5.3	6.0	24	2,630	599	63	31	20	12	5.8	2.6	3.1
5	5.6	6.1	23	1,650	313	60	30	20	12	5.8	2.4	3.0
6	5.9	6.0	22	573	238	57	30	21	12	5.6	2.7	2.7
7	5.4	7.5	20	312	184	56	29	20	14	5.7	2.5	2.3
8	5.0	17	20	234	153	55	29	20	14	6.3	2.9	2.7
9	5.1	9.3	19	177	131	90	33	21	12	7.1	2.7	3.6
10	5.2	7.8	19	149	115	111	42	22	11	7.1	2.7	3.7
11	5.2	7.3	19	129	100	82	47	21	11	6.9	3.2	3.7
12	4.8	8.3	24	111	91	71	71	19	10	6.8	3.5	3.9
13	4.3	91	20	98	82	73	44	18	9.9	6.9	3.4	4.5
14	4.4	223	19	86	76	65	38	17	8.6	6.7	2.8	4.6
15	5.0	214	18	77	71	66	34	17	7.8	6.4	3.0	4.4
16	5.5	59	17	70	66	65	32	17	7.7	5.6	3.3	4.0
17	5.5	220	17	65	64	59	30	16	7.6	5.1	3.1	4.0
18	5.5	447	16	61	61	56	30	15	6.9	5.3	3.1	4.2
19	5.5	152	16	57	186	56	28	14	6.9	5.3	2.8	5.1
20	5.3	77	16	53	112	52	28	14	6.7	5.1	2.5	8.0
21	5.1	53	16	50	90	50	27	14	7.4	4.5	2.5	5.1
22	5.0	38	16	50	88	48	26	14	7.7	4.6	2.6	4.2
23	4.9	39	15	47	86	46	25	14	8.6	4.1	2.9	3.9
24	5.1	481	415	45	98	45	24	13	8.7	4.3	3.1	4.1
25	4.8	171	236	42	102	43	24	13	8.2	4.0	3.0	3.9
26	4.9	100	119	41	103	41	23	12	7.5	4.0	3.0	3.9
27	5.1	77	92	39	88	40	23	12	7.3	4.2	3.2	4.0
28	5.4	58	1,130	37	82	38	23	12	6.9	3.3	3.4	3.6
29	5.5	48	546	413	------	37	22	13	7.2	3.2	3.5	3.4
30	5.6	39	328	465	------	36	21	13	7.2	3.4	4.8	3.8
31	5.7	------	307	201	------	35	------	13	------	4.0	6.2	------
TOTAL	161.1	2,679.5	3,637	8,497	4,253	1,811	943	517	282.8	163.9	98.7	119.9
MEAN	5.20	89.3	117	274	152	58.4	31.4	16.7	9.43	5.29	3.18	4.00
MAX	5.9	481	1,130	2,630	599	111	71	22	14	7.1	6.2	8.0
MIN	4.3	5.6	15	37	61	35	21	12	6.7	3.2	2.4	2.3
AC-FT	320	5,310	7,210	16,850	8,440	3,590	1,870	1,030	561	325	196	238

CAL YR 1965 TOTAL 30,689.6 MEAN 84.1 MAX 4,430 MIN 4.3 AC-FT 60,870
WTR YR 1966 TOTAL 23,163.9 MEAN 63.5 MAX 2,630 MIN 2.3 AC-FT 45,950

11449500 KELSEY CREEK NEAR KELSEYVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	3.9	95	29	391	37	141	91	34	17	9.9	5.6
2	3.4	4.1	1,340	28	274	36	120	85	83	16	9.6	5.5
3	4.2	4.7	465	27	217	36	109	81	57	16	9.6	5.1
4	4.0	4.7	1,900	26	178	35	102	77	43	16	8.9	5.3
5	4.2	5.1	1,170	26	153	34	113	73	38	16	8.8	6.0
6	4.1	9.5	556	24	135	33	275	70	37	15	8.8	5.8
7	4.3	9.5	299	24	120	32	175	67	36	15	8.9	5.9
8	4.2	6.7	207	23	108	31	143	64	34	15	8.8	5.9
9	4.1	6.5	160	23	99	31	122	64	31	15	8.7	5.9
10	3.7	6.2	149	22	90	220	178	67	30	15	8.3	5.9
11	3.7	6.5	120	22	83	387	156	61	29	15	7.9	6.4
12	3.3	7.8	102	22	77	363	128	59	28	14	7.4	6.2
13	3.4	9.1	94	22	73	279	115	55	27	13	7.0	5.9
14	3.8	16	84	21	69	227	110	53	27	12	7.2	5.6
15	4.0	95	75	21	65	519	109	51	26	12	6.4	5.5
16	4.4	167	68	20	62	1,840	98	49	24	12	6.3	5.5
17	4.4	33	62	20	58	530	308	48	24	12	6.4	5.9
18	4.3	23	57	20	55	297	258	46	23	12	6.0	7.1
19	4.0	840	54	20	52	219	204	45	23	12	5.7	6.7
20	4.3	1,030	51	730	49	201	166	43	22	12	5.8	5.8
21	4.5	429	48	3,630	47	168	190	41	21	12	6.0	5.7
22	4.7	226	45	739	45	149	163	39	21	11	6.1	5.8
23	4.7	118	44	315	43	178	184	38	21	11	6.3	6.0
24	4.7	79	41	525	42	137	164	36	20	11	5.7	5.3
25	4.6	61	39	317	47	122	144	36	20	11	6.3	5.3
26	4.5	52	36	372	41	111	130	35	19	11	6.8	4.9
27	4.5	46	35	363	39	100	128	34	19	11	6.2	4.7
28	4.7	69	33	674	38	98	116	34	18	11	5.8	4.9
29	4.5	82	32	1,500	------	92	106	34	18	10	5.9	5.7
30	4.6	58	32	938	------	169	97	33	17	10	5.7	5.8
31	4.4	------	30	810	------	180	------	33	------	10	5.7	------
TOTAL	129.9	3,508.3	7,523	11,353	2,750	6,891	4,552	1,642	870	401	222.9	171.6
MEAN	4.19	117	243	366	98.2	222	152	53.0	29.0	12.9	7.19	5.72
MAX	4.7	1,030	1,900	3,630	391	1,840	308	91	83	17	9.9	7.1
MIN	3.3	3.9	30	20	38	31	97	33	17	10	5.7	4.7
AC-FT	258	6,960	14,920	22,520	5,450	13,670	9,030	3,260	1,730	795	442	340

CAL YR 1966 TOTAL 27,847.5 MEAN 76.3 MAX 2,630 MIN 2.3 AC-FT 55,240
WTR YR 1967 TOTAL 40,014.7 MEAN 110 MAX 3,630 MIN 3.3 AC-FT 79,370

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	8.8	21	17	224	76	96	20	14	6.2	3.4	4.2
2	14	9.8	14	16	343	72	74	20	13	6.1	3.4	3.9
3	21	8.8	283	15	262	66	60	20	13	6.0	3.1	4.5
4	12	9.3	305	15	204	61	54	20	12	5.7	3.5	4.1
5	14	10	226	15	169	60	51	20	12	5.2	3.4	3.9
6	12	10	74	14	147	57	48	20	13	4.5	3.4	4.2
7	11	10	234	14	130	57	45	19	13	4.5	3.4	3.9
8	9.6	12	82	15	116	56	43	19	12	5.0	3.6	3.4
9	9.1	14	53	29	105	51	41	19	12	4.7	3.3	4.0
10	8.8	12	40	950	96	48	38	18	12	4.6	3.2	4.0
11	8.6	12	33	142	85	45	37	18	12	4.6	3.1	4.9
12	8.5	12	28	83	77	206	36	19	12	4.5	3.4	4.0
13	8.2	14	25	79	72	190	34	22	12	4.6	3.9	6.1
14	8.0	56	23	660	67	212	33	23	11	4.5	4.6	4.9
15	7.6	17	22	572	62	144	32	21	11	5.6	4.5	4.5
16	7.6	12	20	268	137	492	32	20	10	5.6	4.1	4.6
17	9.1	11	23	163	260	234	30	19	10	5.0	3.8	4.1
18	8.2	8.3	95	123	170	169	29	18	9.8	4.9	3.8	3.6
19	8.2	8.2	51	98	429	139	28	18	11	4.4	5.9	3.3
20	8.3	8.0	36	81	426	117	28	20	10	3.9	11	4.3
21	9.1	7.9	30	70	433	102	27	20	7.5	4.0	23	4.2
22	10	7.8	28	61	254	95	26	20	6.7	4.2	14	4.0
23	9.6	7.6	26	54	200	90	25	19	6.1	3.9	8.6	4.1
24	9.6	7.6	25	51	163	78	24	19	6.6	3.9	7.3	3.9
25	11	7.5	24	48	139	74	23	20	6.1	3.9	6.4	3.7
26	9.8	7.3	23	45	118	68	20	18	5.5	4.2	6.7	3.6
27	11	7.3	21	44	103	64	20	18	5.5	3.7	6.4	3.5
28	9.8	8.5	20	63	92	60	20	17	5.5	3.2	6.4	3.2
29	9.6	27	19	2,880	83	56	21	17	5.8	3.3	5.7	3.0
30	9.3	34	18	890	------	54	21	15	5.9	3.9	4.9	3.9
31	8.8	------	17	340	------	51	------	15	------	3.7	4.4	------
TOTAL	307.1	384.7	1,939	7,914	5,166	3,344	1,096	591	296.0	142.0	175.6	121.5
MEAN	9.91	12.8	62.5	255	178	108	36.5	19.1	9.87	4.58	5.66	4.05
MAX	21	56	305	2,880	433	492	96	23	14	6.2	23	6.1
MIN	5.7	7.3	14	14	62	45	20	15	5.5	3.2	3.1	3.0
AC-FT	609	763	3,850	15,700	10,250	6,630	2,170	1,170	587	282	348	241

CAL YR 1967 TOTAL 31,484.3 MEAN 86.3 MAX 3,630 MIN 4.7 AC-FT 62,450
WTR YR 1968 TOTAL 21,476.9 MEAN 58.7 MAX 2,880 MIN 3.0 AC-FT 42,600

11449500 KELSEY CREEK NEAR KELSEYVILLE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	7.8	12	59	224	486	59	52	22	12	6.3	4.9
2	4.1	18	11	52	198	382	66	50	21	12	6.0	5.2
3	4.1	17	10	47	175	305	78	48	21	11	5.7	4.8
4	4.0	11	10	43	166	246	61	48	21	11	6.1	4.9
5	4.2	9.6	10	39	370	214	190	45	21	11	6.0	4.9
6	4.2	9.3	10	37	550	189	126	42	22	11	6.0	4.7
7	4.5	9.4	10	34	308	174	101	41	21	11	6.0	4.9
8	4.4	8.7	20	33	331	159	90	40	22	10	5.9	4.9
9	4.4	8.4	52	32	1,070	147	88	38	23	9.7	5.4	5.2
10	4.3	8.2	810	31	558	142	80	37	24	9.4	5.3	5.2
11	4.8	8.6	148	338	1,050	126	73	36	23	9.4	5.7	5.0
12	17	13	85	935	610	120	70	34	23	9.3	5.6	5.0
13	11	11	130	1,820	397	111	66	33	21	8.7	5.5	4.9
14	8.2	11	570	478	391	103	63	33	20	9.3	5.6	4.7
15	7.9	20	1,280	250	642	96	59	33	19	9.2	5.6	5.4
16	6.8	16	400	183	415	92	57	32	18	8.6	5.5	5.7
17	6.3	13	100	150	328	102	55	30	17	8.5	5.2	5.3
18	6.0	15	58	228	273	97	54	29	18	8.1	5.4	5.3
19	5.8	15	45	815	230	93	51	29	19	7.6	5.8	5.5
20	5.7	12	38	1,680	196	94	49	29	18	7.1	5.4	5.5
21	5.7	11	34	2,150	177	101	48	28	18	7.1	5.4	5.6
22	5.7	10	32	730	169	90	46	27	17	7.2	5.2	5.3
23	5.5	10	130	415	248	83	133	26	15	7.2	4.9	5.1
24	5.5	12	562	310	385	77	115	26	15	7.2	5.0	5.0
25	5.7	13	566	754	337	75	79	26	15	7.2	5.4	4.9
26	5.7	11	270	1,350	244	71	69	28	15	7.0	5.5	4.9
27	5.5	11	180	502	409	69	63	29	15	6.7	5.5	4.9
28	5.7	10	220	355	880	67	59	27	14	6.4	5.3	4.7
29	9.5	10	140	275	------	65	57	25	13	6.7	5.3	4.8
30	14	13	94	238	------	63	54	24	13	6.6	5.3	5.3
31	9.0	------	71	204	------	61	------	23	------	6.5	4.6	------
TOTAL	199.4	353.0	6,108	14,567	11,331	4,300	2,259	1,048	564	269.7	171.4	152.4
MEAN	6.43	11.8	197	470	405	139	75.3	33.8	18.8	8.70	5.53	5.08
MAX	17	20	1,280	2,150	1,070	486	190	52	24	12	6.3	5.7
MIN	4.0	7.8	10	31	166	61	46	23	13	6.4	4.6	4.7
AC-FT	396	700	12,120	28,890	22,480	8,530	4,480	2,080	1,120	535	340	302

CAL YR 1968 TOTAL 25,506.5 MEAN 69.7 MAX 2,880 MIN 3.0 AC-FT 50,590
WTR YR 1969 TOTAL 41,322.9 MEAN 113 MAX 2,150 MIN 4.0 AC-FT 81,960

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	6.5	9.0	64	181	314	43	25	13	8.0	4.8	4.2
2	5.4	6.5	8.9	59	163	150	42	24	13	7.6	4.7	4.2
3	5.6	6.5	9.0	53	150	127	40	23	13	7.3	4.7	4.1
4	5.3	6.6	9.0	49	138	338	39	23	12	6.8	4.9	4.3
5	5.6	22	9.0	45	126	195	38	23	12	6.7	4.8	4.3
6	5.6	13	8.9	42	115	159	38	23	11	6.6	4.9	4.3
7	5.7	11	8.9	41	107	148	37	24	11	6.6	5.0	4.2
8	5.9	15	11	124	100	163	36	23	13	6.6	4.7	4.0
9	6.2	12	11	1,120	94	133	35	23	16	6.5	4.5	4.1
10	6.0	10	22	514	89	121	35	22	14	6.5	4.5	4.0
11	5.8	9.6	105	243	84	109	34	23	13	6.3	4.5	3.8
12	5.8	9.3	771	229	209	98	33	24	12	6.1	4.5	3.7
13	6.2	9.3	225	582	730	90	33	23	12	6.2	4.4	4.0
14	7.9	9.0	103	1,730	293	86	33	22	12	6.1	4.4	4.3
15	16	9.0	62	594	193	80	33	21	12	6.0	4.1	4.7
16	14	9.2	44	1,850	454	75	33	19	12	6.1	3.8	4.5
17	8.6	9.0	39	775	401	71	33	19	12	6.4	4.0	4.2
18	7.4	9.2	46	436	245	67	31	19	11	6.0	4.2	4.1
19	6.9	9.3	1,150	371	195	64	30	19	10	5.9	4.3	4.0
20	6.5	9.3	727	490	169	63	30	19	9.3	5.8	4.3	4.0
21	6.3	9.3	1,720	1,770	151	60	30	18	8.6	5.8	4.3	4.3
22	6.3	9.3	362	1,020	133	58	30	18	9.0	5.8	4.0	4.3
23	6.5	9.3	780	3,490	120	55	29	17	8.5	5.8	3.8	4.1
24	6.7	9.2	925	2,020	109	53	28	16	8.3	5.2	4.1	4.0
25	6.8	9.2	341	714	99	51	28	15	8.5	5.1	4.0	3.8
26	6.7	9.3	197	534	94	50	28	15	8.5	4.7	4.1	3.6
27	6.7	9.2	145	885	88	48	29	15	8.2	4.8	4.0	3.5
28	7.5	9.2	111	429	141	48	27	15	9.0	4.9	4.1	3.8
29	6.7	9.0	93	308	------	47	28	15	9.4	5.0	4.1	3.8
30	6.6	9.0	79	245	------	46	27	14	9.0	5.0	4.0	4.1
31	6.6	------	70	209	------	44	------	13	------	4.9	4.1	------
TOTAL	215.0	293.3	8,201.7	21,035	5,171	3,211	990	612	330.3	187.1	134.6	122.3
MEAN	6.94	9.78	265	679	185	104	33.0	19.7	11.0	6.04	4.34	4.08
MAX	16	22	1,720	3,490	730	338	43	25	16	8.0	5.0	4.7
MIN	5.2	6.5	8.9	41	84	44	27	13	8.2	4.7	3.8	3.5
AC-FT	426	582	16,270	41,720	10,260	6,370	1,960	1,210	655	371	267	243

CAL YR 1969 TOTAL 43,372.5 MEAN 119 MAX 2,150 MIN 4.6 AC-FT 86,030
WTR YR 1970 TOTAL 40,503.3 MEAN 111 MAX 3,490 MIN 3.5 AC-FT 80,340

11450000 CLEAR LAKE AT LAKEPORT, CALIF.

LOCATION.--Lat 39°02'21", long 122°54'44", in NE¼NE¼ sec.25, T.14 N., R.10 W., Lake County, on private pier at 410 Esplanada Street in Lakeport. Mar. 18, 1949, to Sept. 30, 1967, at site 0.6 mile south.

DRAINAGE AREA.--528 sq mi.

PERIOD OF RECORD.--1874-1900 (incomplete), January 1913 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 1,318.65 ft above mean sea level. Prior to July 8, 1947, nonrecording gage and July 8, 1947, to Mar. 17, 1949, water-stage recorder, at municipal wharf at foot of Third Street in Lakeport at datum 0.06 ft lower. Mar. 18, 1949, to Sept. 30, 1967, water-stage recorder at private pier at foot of Fourth Street, 0.6 mile south, at datum 0.06 ft lower.

EXTREMES.--Maximum and minimum daily mean gage heights, in feet, for the water years 1966-70 are contained in the following table:

	Maximum daily		Minimum daily	
Wtr yr	Date	Gage height	Date	Gage height
1966	Feb. 11, 1966	7.66	Sept.30, 1966	1.58
1967	Mar. 17, 1967	7.93	Nov. 5, 1966	1.15
1968	Mar. 17, 1968	7.79	Sept.30, 1968	2.00
1969	Feb. 16, 1969	8.91	Oct. 26, 1968	1.76
1970	Jan. 27, 1970	10.47	Sept.30, 1970	1.86

Period of record: Maximum gage height observed, 11.12 ft Jan. 28, 1914; minimum observed, -3.50 ft Sept. 24-27, 1920.

REMARKS.--This natural lake is regulated by gates on a dam at outlet, completed in 1915. Capacity between gage heights 0.00 and 7.56 ft (limits stipulated by court decree of 1920), about 319,000 acre-ft. Water is released down natural channel of Cache Creek from which it is diverted for irrigation (see station 11451000).

COOPERATION.--Daily mean gage-height record furnished by Clear Lake Water Co., for the water years 1966-68 and by Yolo County Flood Control and Water Conservation District for the water years 1969-70.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.94	2.63	3.49	4.49	6.96	7.36	7.28	7.02	5.93	4.72	3.46	2.30
2	2.92	2.63	3.50	4.54	7.08	7.33	7.28	7.00	5.89	4.67	3.42	2.27
3	2.91	2.62	3.50	4.61	7.24	7.33	7.28	6.97	5.87	4.63	3.39	2.25
4	2.88	2.62	3.50	5.40	7.33	7.35	7.28	6.93	5.83	4.58	3.35	2.22
5	2.88	2.62	3.51	6.11	7.38	7.36	7.28	6.90	5.81	4.54	3.31	2.20
6	2.87	2.61	3.53	6.30	7.38	7.37	7.27	6.86	5.77	4.48	3.27	2.18
7	2.87	2.67	3.53	6.45	7.33	7.39	7.25	6.82	5.74	4.44	3.23	2.14
8	2.86	2.66	3.54	6.50	7.26	7.42	7.25	6.80	5.70	4.40	3.20	2.10
9	2.84	2.66	3.54	6.45	7.17	7.45	7.25	6.77	5.66	4.35	3.17	2.07
10	2.83	2.65	3.54	6.40	7.10	7.50	7.28	6.74	5.62	4.31	3.12	2.01
11	2.83	2.66	3.56	6.34	7.66	7.53	7.29	6.72	5.60	4.26	3.09	1.98
12	2.82	2.76	3.57	6.28	7.10	7.56	7.30	6.69	5.57	4.22	3.06	1.95
13	2.80	2.88	3.57	6.25	7.12	7.58	7.31	6.62	5.53	4.17	3.02	1.93
14	2.77	2.98	3.57	6.22	7.15	7.60	7.32	6.61	5.50	4.13	2.99	1.91
15	2.75	3.01	3.56	6.24	7.16	7.57	7.32	6.57	5.46	4.09	2.94	1.89
16	2.74	3.03	3.56	6.24	7.18	7.56	7.31	6.55	5.42	4.05	2.91	1.86
17	2.73	3.08	3.56	6.24	7.20	7.50	7.30	6.52	5.38	4.01	2.87	1.83
18	2.73	3.17	3.55	6.26	7.24	7.39	7.29	6.49	5.33	3.97	2.83	1.81
19	2.72	3.19	3.55	6.26	7.29	7.26	7.27	6.46	5.27	3.94	2.78	1.81
20	2.72	3.19	3.54	6.27	7.31	7.20	7.25	6.42	5.22	3.91	2.74	1.79
21	2.71	3.19	3.54	6.28	7.36	7.19	7.24	6.39	5.16	3.87	2.70	1.78
22	2.71	3.20	3.54	6.29	7.37	7.20	7.23	6.36	5.11	3.83	2.67	1.75
23	2.70	3.21	3.54	6.30	7.40	7.21	7.21	6.33	5.07	3.78	2.62	1.73
24	2.69	3.33	3.64	6.31	7.44	7.23	7.19	6.29	5.03	3.73	2.56	1.70
25	2.70	3.38	3.72	6.35	7.46	7.24	7.18	6.25	5.00	3.70	2.51	1.68
26	2.69	3.42	3.76	6.34	7.45	7.25	7.17	6.21	4.93	3.66	2.48	1.66
27	2.69	3.44	3.82	6.34	7.43	7.26	7.14	6.17	4.90	3.63	2.44	1.66
28	2.68	3.48	4.05	6.35	7.40	7.27	7.10	6.14	4.86	3.59	2.39	1.62
29	2.68	3.48	4.20	6.55	---	7.27	7.07	6.09	4.82	3.56	2.34	1.61
30	2.67	3.49	4.31	6.70	---	7.28	7.05	6.05	4.78	3.53	2.34	1.58
31	2.67	---	4.42	6.83	---	7.28	---	5.98	---	3.49	2.32	---
MEAN	2.77	3.00	3.66	6.14	7.28	7.36	7.24	6.54	5.39	4.07	2.89	1.91
MAX	2.94	3.49	4.42	6.83	7.66	7.60	7.32	7.02	5.93	4.72	3.46	2.30
MIN	2.67	2.61	3.49	4.49	6.96	7.19	7.05	5.98	4.78	3.49	2.32	1.58

CAL YR 1965 MEAN 5.47 MAX 9.10 MIN 2.61
WTR YR 1966 MEAN 4.84 MAX 7.66 MIN 1.58

11450000 CLEAR LAKE AT LAKEPORT, CALIF.--CONTINUED

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.57	1.17	1.98	4.16	7.56	7.32	7.68	7.20	7.28	6.79	5.45	4.28
2	1.56	1.17	2.30	4.19	7.54	7.32	7.65	7.23	7.32	6.73	5.41	4.25
3	1.53	1.16	2.46	4.19	7.49	7.33	7.63	7.25	7.32	6.69	5.37	4.19
4	1.51	1.16	2.85	4.19	7.41	7.33	7.59	7.28	7.33	6.64	5.31	4.15
5	1.49	1.15	3.28	4.20	7.32	7.34	7.60	7.31	7.32	6.59	5.26	4.12
6	1.47	1.20	3.50	4.20	7.25	7.35	7.62	7.32	7.32	6.54	5.21	4.08
7	1.46	1.19	3.62	4.20	7.16	7.35	7.55	7.34	7.32	6.50	5.17	4.03
8	1.45	1.18	3.71	4.21	7.17	7.36	7.48	7.33	7.32	6.46	5.14	4.00
9	1.44	1.18	3.81	4.21	7.19	7.36	7.40	7.34	7.32	6.42	5.10	3.96
10	1.42	1.18	3.86	4.21	7.20	7.40	7.38	7.36	7.31	6.38	5.06	3.91
11	1.39	1.19	3.89	4.21	7.21	7.52	7.32	7.38	7.29	6.35	5.03	3.90
12	1.36	1.19	3.94	4.22	7.21	7.66	7.37	7.39	7.29	6.31	4.99	3.88
13	1.34	1.19	3.98	4.22	7.20	7.73	7.42	7.40	7.28	6.26	4.95	3.86
14	1.32	1.21	4.00	4.22	7.21	7.67	7.47	7.41	7.27	6.23	4.93	3.83
15	1.30	1.26	4.03	4.23	7.22	7.70	7.54	7.43	7.27	6.19	4.89	3.81
16	1.29	1.30	4.05	4.23	7.22	7.89	7.58	7.44	7.26	6.15	4.85	3.77
17	1.29	1.31	4.07	4.24	7.23	7.93	7.62	7.44	7.24	6.08	4.81	3.73
18	1.28	1.32	4.09	4.24	7.24	7.90	7.61	7.44	7.23	6.03	4.77	3.72
19	1.26	1.50	4.10	4.25	7.25	7.84	7.59	7.43	7.19	5.97	4.73	3.71
20	1.24	1.70	4.11	5.00	7.25	7.80	7.59	7.43	7.16	5.93	4.69	3.68
21	1.23	1.74	4.12	5.38	7.26	7.73	7.53	7.42	7.13	5.88	4.66	3.65
22	1.22	1.80	4.13	5.71	7.27	7.64	7.49	7.42	7.09	5.84	4.63	3.64
23	1.21	1.81	4.13	5.98	7.27	7.56	7.47	7.39	7.06	5.80	4.59	3.62
24	1.21	1.82	4.14	6.13	7.29	7.48	7.42	7.37	7.04	5.76	4.56	3.61
25	1.20	1.82	4.14	6.30	7.30	7.51	7.39	7.35	7.00	5.73	4.53	3.59
26	1.20	1.84	4.14	6.60	7.31	7.53	7.33	7.32	6.98	5.69	4.50	3.57
27	1.19	1.85	4.15	6.76	7.32	7.55	7.31	7.28	6.95	5.66	4.47	3.55
28	1.19	1.91	4.15	7.00	7.32	7.56	7.29	7.26	6.91	5.62	4.43	3.53
29	1.19	1.92	4.15	7.19	---	7.56	7.24	7.23	6.88	5.57	4.39	3.49
30	1.18	1.94	4.16	7.43	---	7.69	7.21	7.19	6.83	5.53	4.36	3.45
31	1.18	---	4.16	7.53	---	7.70	---	7.20	---	5.49	4.31	---
MEAN	1.33	1.45	3.78	5.07	7.28	7.57	7.48	7.34	7.18	6.12	4.86	3.82
MAX	1.57	1.94	4.16	7.53	7.56	7.93	7.68	7.44	7.33	6.79	5.45	4.28
MIN	1.18	1.15	1.98	4.16	7.16	7.32	7.21	7.19	6.83	5.49	4.31	3.45

CAL YR 1966 MEAN 4.60 MAX 7.66 MIN 1.15
WTR YR 1967 MEAN 5.26 MAX 7.93 MIN 1.15

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.42	3.16	3.17	3.67	6.65	7.45	7.50	7.17	6.25	5.02	3.65	2.65
2	3.46	3.17	3.19	3.68	6.67	7.44	7.51	7.14	6.22	4.97	3.61	2.63
3	3.45	3.17	3.29	3.68	6.68	7.42	7.48	7.12	6.18	4.93	3.56	2.61
4	3.44	3.24	3.31	3.68	6.68	7.42	7.48	7.09	6.14	4.90	3.52	2.59
5	3.43	3.24	3.40	3.68	6.75	7.42	7.48	7.06	6.10	4.86	3.48	2.56
6	3.42	3.24	3.45	3.69	6.80	7.45	7.49	7.02	6.06	4.82	3.45	2.53
7	3.41	3.24	3.48	3.70	6.81	7.48	7.50	7.00	6.02	4.78	3.40	2.50
8	3.41	3.23	3.49	3.73	6.84	7.49	7.51	6.97	5.98	4.73	3.37	2.47
9	3.37	3.22	3.49	3.80	6.88	7.50	7.52	6.92	5.94	4.69	3.33	2.43
10	3.36	3.22	3.49	4.02	6.91	7.51	7.52	6.88	5.89	4.64	3.29	2.41
11	3.35	3.22	3.49	4.09	6.94	7.54	7.52	6.86	5.85	4.58	3.25	2.39
12	3.34	3.21	3.49	4.12	6.95	7.66	7.52	6.82	5.81	4.52	3.18	2.38
13	3.33	3.35	3.50	4.16	6.97	7.68	7.51	6.83	5.77	4.44	3.12	2.36
14	3.32	3.36	3.50	4.56	6.99	7.68	7.49	6.80	5.74	4.39	3.08	2.32
15	3.30	3.36	3.48	4.80	7.01	7.67	7.45	6.78	5.71	4.34	3.04	2.31
16	3.28	3.36	3.48	4.94	7.07	7.77	7.44	6.76	5.68	4.29	2.99	2.31
17	3.27	3.37	3.48	5.00	7.16	7.79	7.42	6.74	5.64	4.25	2.94	2.29
18	3.26	3.37	3.55	5.05	7.17	7.77	7.40	6.73	5.60	4.21	2.89	2.26
19	3.25	3.39	3.56	5.09	7.41	7.74	7.38	6.70	5.55	4.16	2.85	2.25
20	3.24	3.38	3.57	5.12	7.56	7.65	7.37	6.65	5.51	4.12	2.92	2.24
21	3.23	3.38	3.59	5.14	7.65	7.57	7.36	6.62	5.47	4.08	2.90	2.22
22	3.21	3.36	3.59	5.17	7.65	7.51	7.34	6.58	5.41	4.05	2.88	2.19
23	3.22	3.35	3.59	5.20	7.63	7.47	7.33	6.55	5.38	4.01	2.86	2.18
24	3.21	3.38	3.62	5.22	7.58	7.42	7.31	6.53	5.34	3.96	2.82	2.14
25	3.22	3.41	3.64	5.22	7.51	7.40	7.29	6.50	5.30	3.93	2.81	2.10
26	3.21	3.41	3.66	5.23	7.42	7.38	7.28	6.47	5.26	3.89	2.78	2.09
27	3.20	3.38	3.66	5.23	7.37	7.37	7.26	6.44	5.21	3.86	2.76	2.08
28	3.18	3.38	3.66	5.38	7.41	7.39	7.23	6.40	5.16	3.82	2.75	2.07
29	3.17	3.42	3.66	6.06	7.44	7.40	7.21	6.36	5.11	3.77	2.73	2.05
30	3.18	3.44	3.67	6.40	---	7.40	7.18	6.32	5.06	3.73	2.70	2.00
31	3.18	---	3.67	6.55	---	7.41	---	6.29	---	3.69	2.67	---
MEAN	3.30	3.31	3.51	4.68	7.12	7.52	7.41	6.75	5.68	4.34	3.08	2.32
MAX	3.46	3.44	3.67	6.55	7.65	7.79	7.52	7.17	6.25	5.02	3.65	2.65
MIN	3.17	3.16	3.17	3.67	6.65	7.37	7.18	6.29	5.06	3.69	2.67	2.00

CAL YR 1967 MEAN 5.56 MAX 7.93 MIN 3.16
WTR YR 1968 MEAN 5.56 MAX 7.79 MIN 2.00

11450000 CLEAR LAKE AT LAKEPORT, CALIF.--CONTINUED

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.99	1.84	1.88	4.14	8.04	8.63	7.54	7.57	6.79	5.70	4.36	3.10
2	1.98	1.84	1.90	4.17	7.96	8.60	7.56	7.53	6.76	5.65	4.31	3.07
3	1.97	1.84	1.90	4.20	7.89	8.58	7.60	7.50	6.73	5.62	4.28	3.04
4	1.95	1.84	1.90	4.23	7.83	8.51	7.61	7.45	6.69	5.58	4.23	3.01
5	1.93	1.84	1.90	4.25	7.98	8.41	7.62	7.45	6.65	5.54	4.18	2.98
6	1.91	1.84	1.90	4.27	8.03	8.30	7.63	7.43	6.61	5.50	4.14	2.95
7	1.88	1.84	1.90	4.30	8.04	8.23	7.63	7.42	6.56	5.46	4.10	2.93
8	1.87	1.83	1.90	4.32	8.02	8.14	7.62	7.41	6.54	5.43	4.06	2.90
9	1.86	1.83	1.91	4.33	8.21	8.08	7.61	7.40	6.52	5.39	4.03	2.88
10	1.84	1.83	2.06	4.36	8.30	7.97	7.59	7.39	6.49	5.35	3.97	2.86
11	1.85	1.83	2.13	4.50	8.55	7.87	7.55	7.37	6.47	5.31	3.93	2.84
12	1.85	1.83	2.20	4.70	8.69	7.77	7.49	7.35	6.45	5.28	3.90	2.81
13	1.84	1.83	2.22	5.50	8.70	7.68	7.46	7.31	6.42	5.24	3.86	2.78
14	1.83	1.92	2.25	5.78	8.78	7.58	7.47	7.29	6.39	5.19	3.81	2.74
15	1.82	1.92	2.76	5.95	8.86	7.48	7.49	7.26	6.37	5.15	3.77	2.71
16	1.81	1.92	2.87	6.02	8.91	7.34	7.49	7.25	6.35	5.10	3.74	2.67
17	1.80	1.93	2.92	6.09	8.86	7.27	7.49	7.21	6.30	5.06	3.70	2.63
18	1.80	1.93	2.93	6.24	8.79	7.30	7.50	7.17	6.27	5.01	3.66	2.59
19	1.79	1.92	2.96	6.50	8.72	7.33	7.50	7.16	6.23	4.96	3.63	2.55
20	1.78	1.92	2.98	6.98	8.62	7.36	7.52	7.13	6.20	4.92	3.60	2.52
21	1.78	1.91	3.00	7.63	8.55	7.39	7.52	7.10	6.17	4.88	3.56	2.50
22	1.78	1.91	3.04	7.82	8.47	7.42	7.54	7.08	6.12	4.84	3.53	2.48
23	1.78	1.90	3.10	7.90	8.50	7.47	7.59	7.04	6.05	4.79	3.47	2.45
24	1.77	1.86	3.20	7.88	8.47	7.48	7.59	7.02	6.00	4.74	3.41	2.44
25	1.77	1.87	3.55	7.90	8.47	7.49	7.60	6.99	5.95	4.69	3.37	2.42
26	1.76	1.88	3.73	8.28	8.44	7.50	7.61	6.95	5.89	4.64	3.32	2.41
27	1.77	1.87	3.88	8.33	8.45	7.52	7.61	6.92	5.84	4.59	3.27	2.38
28	1.78	1.86	3.96	8.31	8.59	7.53	7.60	6.88	5.81	4.55	3.23	2.37
29	1.77	1.86	4.02	8.26	---	7.54	7.59	6.85	5.78	4.50	3.20	2.35
30	1.77	1.87	4.07	8.19	---	7.52	7.57	6.84	5.75	4.46	3.17	2.33
31	1.77	---	4.11	8.11	---	7.53	---	6.82	---	4.41	3.13	---
MEAN	1.83	1.87	2.74	6.11	8.42	7.77	7.56	7.21	6.31	5.08	3.74	2.69
MAX	1.99	1.93	4.11	8.33	8.91	8.63	7.63	7.57	6.79	5.70	4.36	3.10
MIN	1.76	1.83	1.88	4.14	7.83	7.27	7.46	6.82	5.75	4.41	3.13	2.33

CAL YR 1968 MEAN 4.60 MAX 7.79 MIN 1.76
WTR YR 1969 MEAN 5.09 MAX 8.91 MIN 1.76

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.31	2.19	2.21	4.52	9.90	7.64	7.37	7.07	6.30	5.26	3.97	2.73
2	2.29	2.18	2.20	4.53	9.80	7.60	7.38	7.05	6.27	5.24	3.93	2.70
3	2.26	2.18	2.19	4.53	9.66	7.56	7.37	7.04	6.24	5.21	3.89	2.67
4	2.19	2.19	2.18	4.55	9.49	7.61	7.37	7.02	6.21	5.17	3.84	2.63
5	2.17	2.22	2.18	4.56	9.34	7.52	7.36	6.98	6.17	5.13	3.78	2.60
6	2.15	2.23	2.18	4.58	9.19	7.44	7.35	6.96	6.12	5.10	3.73	2.58
7	2.13	2.25	2.19	4.60	9.04	7.40	7.34	6.94	6.05	5.05	3.69	2.55
8	2.11	2.24	2.21	4.73	8.87	7.45	7.34	6.92	6.02	5.00	3.65	2.53
9	2.09	2.25	2.23	5.07	8.74	7.47	7.33	6.88	5.99	4.96	3.62	2.51
10	2.07	2.26	2.27	5.30	8.61	7.50	7.32	6.86	5.96	4.91	3.59	2.48
11	2.05	2.30	2.32	5.53	8.50	7.52	7.31	6.86	5.94	4.87	3.55	2.46
12	2.03	2.30	2.52	5.67	8.45	7.53	7.25	6.86	5.92	4.82	3.51	2.42
13	2.01	2.29	2.57	5.90	8.60	7.53	7.26	6.83	5.89	4.78	3.47	2.38
14	2.06	2.28	2.60	6.55	8.57	7.53	7.27	6.81	5.84	4.76	3.44	2.34
15	2.13	2.28	2.61	6.87	8.48	7.51	7.28	6.79	5.81	4.71	3.40	2.31
16	2.12	2.27	2.63	7.40	8.46	7.49	7.28	6.76	5.78	4.67	3.37	2.27
17	2.11	2.27	2.65	7.70	8.52	7.50	7.27	6.72	5.75	4.63	3.34	2.24
18	2.11	2.27	2.74	7.80	8.51	7.49	7.25	6.69	5.73	4.59	3.30	2.21
19	2.10	2.26	3.05	7.87	8.42	7.48	7.23	6.65	5.70	4.57	3.25	2.17
20	2.19	2.26	3.29	7.99	8.33	7.44	7.22	6.63	5.67	4.52	3.21	2.13
21	2.19	2.25	3.60	8.52	8.22	7.43	7.22	6.61	5.66	4.48	3.17	2.10
22	2.19	2.25	3.73	8.83	8.13	7.41	7.20	6.59	5.63	4.44	3.13	2.06
23	2.18	2.24	3.97	9.42	8.04	7.39	7.18	6.58	5.59	4.40	3.07	2.03
24	2.17	2.24	4.27	10.13	7.95	7.39	7.17	6.54	5.55	4.34	3.03	2.00
25	2.17	2.23	4.38	10.30	7.84	7.40	7.15	6.50	5.53	4.30	3.00	1.97
26	2.17	2.23	4.42	10.34	7.75	7.39	7.12	6.47	5.45	4.26	2.97	1.93
27	2.17	2.23	4.43	10.47	7.65	7.38	7.11	6.43	5.41	4.21	2.93	1.91
28	2.17	2.23	4.45	10.44	7.66	7.38	7.10	6.40	5.35	4.16	2.90	1.89
29	2.19	2.22	4.46	10.34	---	7.38	7.09	6.38	5.32	4.11	2.86	1.88
30	2.20	2.22	4.48	10.21	---	7.39	7.08	6.37	5.29	4.07	2.83	1.86
31	2.19	---	4.50	10.07	---	7.38	---	6.32	---	4.02	2.78	---
MEAN	2.15	2.24	3.09	7.27	8.60	7.47	7.25	6.73	5.80	4.67	3.36	2.28
MAX	2.31	2.30	4.50	10.47	9.90	7.64	7.38	7.07	6.30	5.26	3.97	2.73
MIN	2.01	2.18	2.18	4.52	7.65	7.38	7.08	6.32	5.29	4.02	2.78	1.86

CAL YR 1969 MEAN 5.20 MAX 8.33 MIN 2.01
WTR YR 1970 MEAN 5.05 MAX 10.47 MIN 1.86

11451000 CACHE CREEK NEAR LOWER LAKE, CALIF.

LOCATION.--Lat 38°55'27", long 122°33'53", in sec.6, T.12 N., R.6 W., Lake County, on left bank 500 ft downstream from Clear Lake Dam, 1.9 miles downstream from Copsey Creek, and 2.5 miles northeast of Lower Lake.

DRAINAGE AREA.--528 sq mi.

PERIOD OF RECORD.--May 1944 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 1,280.34 ft above mean sea level.

AVERAGE DISCHARGE.--26 years, 347 cfs (251,400 acre-ft per year), unadjusted.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Mar. 17, 1966	5,120	8.01	Dec. 30, 1965, to Jan. 3, 1966	1.8
1967	Mar. 13, 1967	6,000	8.45	Nov. 27, 30, 1966	2.2
1968	Feb. 1, 1968	5,420	8.16	Jan. 6, 7, 12, 1968	1.8
1969	Jan. 26, 1969	4,960	7.92	Dec. 8, 12, 1968	1.6
1970	Jan. 23, 1970	6,320	8.60	Dec. 9, 10, 14-18, 1969	2.6

Period of record: Maximum discharge, 8,000 cfs Feb. 24, 1958 (gage height, 9.40 ft); minimum recorded, 0.2 cfs Mar. 15-23, 1950.

REMARKS.--Records good. Flow completely regulated by Clear Lake 500 ft upstream (see station 11450000).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	4.2	3.1	1.8	7.4	1,060	37	482	394	538	373	272
2	58	4.2	3.0	1.8	7.4	1,060	67	526	388	538	367	231
3	53	4.1	2.9	1.8	1,440	562	70	578	382	530	358	209
4	53	3.9	2.8	2.7	3,180	13	70	594	379	494	367	202
5	53	3.8	2.8	2.5	2,710	13	72	590	404	466	382	224
6	53	3.8	2.8	2.5	2,680	13	112	578	424	506	388	265
7	52	3.8	2.9	630	2,630	13	142	566	394	538	388	318
8	52	3.6	2.7	1,610	2,580	13	174	538	335	530	414	320
9	51	3.7	2.7	2,140	2,560	13	138	474	340	506	432	263
10	51	3.7	2.8	2,100	2,480	13	100	424	407	494	427	240
11	52	3.6	2.8	2,070	1,430	13	144	410	438	494	418	224
12	52	3.4	2.8	1,580	11	13	121	428	438	494	400	200
13	52	3.8	2.7	1,060	11	14	90	435	356	494	400	200
14	52	3.7	2.7	1,070	11	290	103	394	466	490	391	207
15	53	3.5	2.5	510	11	1,060	116	370	466	490	391	207
16	41	3.5	2.5	8.0	11	1,060	126	388	478	482	410	198
17	37	3.6	2.4	7.9	11	1,880	160	404	486	463	418	195
18	37	3.7	2.4	7.6	11	2,580	192	421	514	446	418	196
19	37	3.5	2.4	7.2	11	2,540	235	456	546	452	418	194
20	42	3.4	2.4	6.8	11	1,320	278	463	554	460	397	183
21	45	3.4	2.4	6.8	11	530	308	432	564	470	373	169
22	44	3.4	2.2	6.8	11	14	328	400	546	490	382	156
23	43	3.3	2.1	6.8	11	13	343	435	502	490	388	144
24	43	3.5	2.1	6.9	11	13	346	502	466	466	370	144
25	40	3.5	2.1	7.1	510	13	382	530	428	438	370	143
26	24	3.4	2.1	7.1	1,030	13	432	538	407	428	358	128
27	9.7	3.2	2.0	7.1	1,060	13	438	514	407	438	318	112
28	4.1	3.2	2.4	7.1	1,060	13	418	470	432	435	290	122
29	4.0	3.2	1.9	7.2	------	13	397	460	478	421	298	135
30	4.2	3.1	1.8	7.1	------	13	438	460	518	414	315	135
31	4.2	------	1.8	7.1	------	13	------	421	------	391	315	------
TOTAL	1,259.2	107.7	77.0	12,897.7	25,507.8	14,204	6,377	14,681	13,337	14,786	11,734	5,936
MEAN	40.6	3.59	2.48	416	911	458	213	474	445	477	379	198
MAX	63	4.2	3.1	2,140	3,180	2,580	438	594	564	538	432	320
MIN	4.0	3.1	1.8	1.8	7.4	13	37	370	335	391	290	112
AC-FT	2,500	214	153	25,580	50,590	28,170	12,650	29,120	26,450	29,330	23,270	11,770

CAL YR 1965 TOTAL 176,800.7 MEAN 484 MAX 4,360 MIN 1.8 AC-FT 350,700
WTR YR 1966 TOTAL 120,904.4 MEAN 331 MAX 3,180 MIN 1.8 AC-FT 239,800

11451000 CACHE CREEK NEAR LOWER LAKE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107	35	2.3	2.9	2,840	20	1,570	690	196	514	449	343
2	84	30	3.5	2.9	2,770	20	1,560	9.3	85	506	432	318
3	74	23	2.5	2.8	2,730	20	1,560	9.0	43	490	442	318
4	73	13	3.7	2.8	2,700	20	1,560	8.7	41	482	474	315
5	73	2.8	3.4	2.8	2,700	19	1,560	7.9	9.6	466	452	305
6	73	2.8	2.9	2.8	2,600	19	2,110	7.6	5.5	466	432	320
7	73	2.7	2.8	2.8	1,890	19	2,740	7.1	5.7	478	418	310
8	72	2.7	2.8	2.8	100	19	2,690	6.6	18	482	404	272
9	72	2.5	2.7	2.8	100	19	2,650	6.4	42	460	404	232
10	72	2.4	2.8	2.8	100	21	2,640	6.4	56	432	382	207
11	72	2.4	2.8	2.8	100	20	1,320	6.1	67	414	358	207
12	67	2.5	2.8	2.8	100	21	12	6.1	82	414	358	205
13	59	2.6	2.8	2.8	100	1,450	11	6.1	125	424	358	202
14	53	2.6	2.8	2.8	100	2,840	11	5.9	125	438	367	200
15	47	2.7	2.8	2.8	100	2,980	11	5.9	125	452	367	200
16	46	2.6	2.8	2.8	100	3,770	11	5.9	151	460	346	200
17	41	2.6	2.8	2.8	71	3,080	1,580	5.7	229	452	346	200
18	35	2.5	2.7	2.8	25	3,050	2,900	5.5	300	482	385	194
19	35	7.9	2.6	2.8	15	2,960	2,870	113	343	526	424	190
20	36	4.0	2.7	2.8	20	2,920	2,770	211	367	518	428	177
21	34	2.5	2.7	2.8	20	2,860	2,810	229	370	486	428	168
22	34	2.5	2.8	2.8	20	2,820	2,830	265	370	446	432	183
23	33	2.3	2.8	2.8	20	2,810	2,880	310	364	404	428	190
24	35	2.4	2.8	2.8	20	1,530	2,880	332	385	418	410	173
25	36	2.3	2.8	2.8	20	128	2,880	332	432	449	364	158
26	36	2.3	2.8	560	20	176	2,180	332	482	456	315	158
27	36	2.2	2.8	2,510	20	176	1,660	320	498	452	325	156
28	35	2.4	2.9	2,710	20	176	1,570	280	494	452	349	156
29	35	2.3	2.8	2,910	------	176	1,570	255	510	452	349	144
30	35	2.2	2.9	3,120	------	550	1,560	255	510	452	346	118
31	35	------	2.8	2,910	------	1,410	------	251	------	452	352	------
TOTAL	1,648	172.7	87.9	14,790.2	19,421	36,099	54,956	4,291.2	6,830.8	14,275	12,124	6,519
MEAN	53.2	5.76	2.84	477	694	1,164	1,832	138	228	460	391	217
MAX	107	35	3.7	3,120	2,840	3,770	2,900	690	510	526	474	343
MIN	33	2.2	2.3	2.8	15	19	11	5.5	5.5	404	315	118
AC-FT	3,270	343	174	29,340	38,520	71,600	109,000	8,510	13,550	28,310	24,050	12,930

CAL YR 1966 TOTAL 121,369.1 MEAN 333 MAX 3,180 MIN 1.8 AC-FT 240,700
WTR YR 1967 TOTAL 171,214.8 MEAN 469 MAX 3,770 MIN 2.2 AC-FT 339,600

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	48	2.4	2.1	432	318	3.0	432	490	518	446	320
2	93	48	2.5	2.1	2,410	680	3.0	418	460	514	446	310
3	81	48	2.8	2.1	2,290	680	2.3	400	474	514	446	310
4	70	48	2.8	2.0	1,550	407	2.8	391	510	494	435	318
5	70	48	2.8	1.9	12	229	2.8	379	518	482	404	315
6	69	52	2.7	1.8	12	112	2.6	382	510	482	379	308
7	68	56	3.0	1.8	12	13	2.6	421	498	494	370	290
8	68	45	2.8	1.9	12	13	2.6	456	470	534	385	256
9	58	33	2.7	1.9	12	13	2.5	432	446	562	404	235
10	48	29	2.7	2.3	12	13	2.2	410	446	570	385	222
11	50	29	2.8	1.9	12	13	12	410	452	578	376	209
12	50	29	2.7	1.8	12	268	94	388	452	614	400	196
13	50	29	2.5	1.9	12	1,410	128	367	438	640	404	196
14	50	29	2.4	2.2	12	1,840	126	330	422	610	367	196
15	49	29	2.2	2.2	12	1,840	141	308	442	590	340	185
16	49	29	2.4	2.2	12	1,860	156	343	452	570	340	177
17	49	29	2.5	2.2	12	1,850	188	379	474	530	325	175
18	49	29	2.5	2.2	12	1,830	242	394	526	498	310	177
19	49	29	2.4	2.3	534	2,350	265	388	570	486	310	160
20	49	14	2.3	2.5	2,360	2,700	256	370	566	474	292	138
21	49	2.8	2.3	2.5	3,040	2,590	242	358	566	463	263	136
22	49	2.4	2.3	2.4	2,920	1,790	265	397	546	452	234	136
23	49	2.4	2.3	2.4	2,870	1,070	315	442	498	428	205	136
24	49	2.1	2.3	2.4	2,850	1,070	335	432	474	418	216	141
25	49	2.2	2.3	2.4	2,800	1,070	335	397	486	438	240	156
26	49	2.2	2.2	2.4	2,730	1,040	364	397	478	435	260	168
27	49	2.2	2.2	2.5	1,110	346	407	460	470	424	272	153
28	49	2.2	2.2	2.5	15	3.7	400	534	506	432	263	134
29	49	2.4	2.1	4.1	14	3.4	397	542	502	414	258	128
30	48	2.5	2.1	3.0	------	3.4	421	522	506	421	280	116
31	48	------	2.1	2.7	------	3.1	------	510	------	449	310	------
TOTAL	1,749	753.4	76.3	70.6	28,093	27,428.6	5,115.4	12,789	14,648	15,528	10,365	6,097
MEAN	56.4	25.1	2.46	2.28	969	885	171	413	488	501	334	203
MAX	93	56	3.0	4.1	3,040	2,700	421	542	570	640	446	320
MIN	48	2.1	2.1	1.8	12	3.1	2.2	308	422	414	205	116
AC-FT	3,470	1,490	151	140	55,720	54,400	10,150	25,370	29,050	30,800	20,560	12,090

CAL YR 1967 TOTAL 171,884.9 MEAN 471 MAX 3,770 MIN 2.1 AC-FT 340,900
WTR YR 1968 TOTAL 122,713.3 MEAN 335 MAX 3,040 MIN 1.8 AC-FT 243,400

11451000 CACHE CREEK NEAR LOWER LAKE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	1.9	1.7	2.8	2,900	3,580	11	247	410	463	437	308
2	102	2.1	1.7	3.1	3,130	3,540	11	247	446	470	418	328
3	101	2.1	1.7	3.1	3,040	3,540	11	270	474	516	386	339
4	95	1.9	1.7	3.1	2,980	3,450	10	280	502	514	380	338
5	88	1.9	1.7	3.1	3,330	3,420	165	295	534	488	395	336
6	87	1.9	1.7	3.3	3,520	3,400	397	310	542	464	445	317
7	76	1.9	1.7	3.3	3,230	3,330	410	325	526	504	513	282
8	64	2.1	1.6	3.1	3,220	3,250	421	349	494	576	509	252
9	63	2.1	1.7	3.1	3,620	3,220	816	373	474	600	484	234
10	63	2.1	1.9	3.1	3,450	3,160	1,070	382	435	582	464	233
11	63	2.2	1.7	3.1	3,880	3,080	1,060	394	367	562	435	231
12	63	2.2	1.6	3.6	3,720	3,010	1,070	463	338	542	422	230
13	59	2.4	1.7	4.2	3,620	2,970	404	506	338	517	432	232
14	45	2.4	1.8	4.1	3,700	2,900	9.9	474	361	516	411	224
15	42	2.4	2.8	4.1	4,010	2,830	9.3	438	397	555	378	222
16	41	2.2	2.2	3.7	3,750	2,760	9.3	400	435	574	353	231
17	40	2.2	2.2	3.5	3,700	1,690	9.9	382	463	573	334	222
18	40	2.2	2.2	428	3,690	119	9.9	385	486	604	358	212
19	40	2.2	2.3	1,360	3,640	105	9.9	376	510	593	425	210
20	40	2.2	2.1	2,040	3,610	103	10	373	506	535	470	208
21	40	2.1	2.1	3,260	3,500	108	11	385	506	526	468	181
22	31	2.1	2.1	3,290	3,430	109	13	404	502	535	476	158
23	28	2.1	2.1	3,150	3,530	108	12	438	478	551	472	158
24	28	1.9	3.0	3,110	3,610	104	12	452	463	551	444	157
25	28	1.9	2.8	3,330	3,540	106	12	452	463	539	427	146
26	27	1.8	2.8	3,780	3,400	106	11	414	442	542	437	134
27	26	1.7	2.8	3,270	3,510	107	11	376	452	514	447	133
28	10	1.7	3.0	3,200	3,850	108	73	361	452	492	428	132
29	2.1	1.7	3.0	3,150	------	283	194	343	432	488	382	135
30	2.1	1.7	3.0	3,160	------	12	240	349	446	480	347	139
31	1.9	------	3.0	3,160	------	13	------	373	------	456	317	------
TOTAL	1,538.1	61.3	67.4	39,745.4	98,110	54,621	6,513.2	11,616	13,674	16,422	13,094	6,662
MEAN	49.6	2.04	2.17	1,282	3,504	1,762	217	375	456	530	422	222
MAX	102	2.4	3.0	3,780	4,010	3,580	1,070	506	542	604	513	339
MIN	1.9	1.7	1.6	2.8	2,900	12	9.3	247	338	456	317	132
AC-FT	3,050	122	134	78,840	194,600	108,300	12,920	23,040	27,120	32,570	25,970	13,210

CAL YR 1968 TOTAL 121,801.4 MEAN 333 MAX 3,040 MIN 1.6 AC-FT 241,600
WTR YR 1969 TOTAL 262,124.4 MEAN 718 MAX 4,010 MIN 1.6 AC-FT 519,900

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	138	3.7	3.1	3.6	4,140	2,050	23	287	412	407	465	328
2	137	3.7	3.3	3.4	4,020	2,060	22	330	394	436	430	320
3	126	3.9	3.1	3.4	3,930	2,050	22	345	420	488	418	321
4	117	3.9	3.1	3.4	3,840	3,510	23	345	483	514	394	327
5	116	3.9	3.1	3.3	3,740	3,370	23	343	528	504	381	295
6	108	3.6	3.1	3.3	3,650	1,460	26	318	517	498	422	251
7	98	3.4	3.1	3.3	3,560	630	54	298	490	527	462	240
8	99	3.4	3.1	3.4	3,480	630	97	293	461	534	470	263
9	90	3.4	2.6	506	3,420	630	111	261	413	528	457	287
10	77	3.4	2.6	435	3,360	630	129	234	353	514	455	298
11	75	3.4	3.1	3.9	3,290	630	134	263	324	500	454	282
12	75	3.4	3.1	3.9	3,280	631	153	323	302	486	448	252
13	68	3.4	3.1	3.9	3,730	632	175	352	286	479	434	234
14	59	3.6	2.6	1,400	3,400	631	150	345	296	486	400	251
15	49	3.6	2.6	2,480	3,340	633	122	358	337	484	389	263
16	36	3.4	2.6	2,940	3,370	637	122	398	377	483	388	255
17	37	3.3	2.6	2,890	3,390	633	132	417	386	480	385	229
18	35	3.1	2.6	2,870	3,390	631	146	410	400	478	369	202
19	34	3.3	3.9	2,870	3,320	628	169	426	414	468	372	180
20	31	3.1	3.4	2,930	3,250	629	194	440	404	460	422	153
21	26	3.1	4.1	3,280	3,190	617	231	412	393	461	435	149
22	26	3.1	3.3	3,230	3,120	671	260	401	413	459	385	147
23	25	3.3	3.6	4,240	3,050	672	260	406	445	491	334	152
24	19	3.3	3.7	4,670	3,020	279	278	413	452	523	308	159
25	4.4	3.1	3.6	4,510	2,940	23	305	399	457	498	307	150
26	4.1	3.1	3.7	4,510	2,940	24	312	382	466	474	317	143
27	3.7	3.1	3.6	4,650	2,320	22	281	382	442	478	327	141
28	3.4	3.1	3.6	4,480	2,030	23	251	369	415	477	324	141
29	3.9	3.0	3.6	4,370	------	26	248	374	397	486	327	141
30	3.9	3.1	3.6	4,320	------	24	252	385	392	497	331	130
31	3.7	------	3.6	4,250	------	22	------	400	------	493	329	------
TOTAL	1,728.1	101.2	99.8	65,869.8	93,510	25,738	4,705	11,109	12,269	15,091	12,139	6,684
MEAN	55.7	3.37	3.22	2,125	3,340	830	157	358	409	487	392	223
MAX	138	3.9	4.1	4,670	4,140	3,510	312	440	528	534	470	328
MIN	3.4	3.0	2.6	3.3	2,030	22	22	234	286	407	307	130
AC-FT	3,430	201	198	130,700	185,500	51,050	9,330	22,030	24,340	29,930	24,080	13,260

CAL YR 1969 TOTAL 262,386.7 MEAN 719 MAX 4,010 MIN 2.6 AC-FT 520,400
WTR YR 1970 TOTAL 249,043.9 MEAN 682 MAX 4,670 MIN 2.6 AC-FT 494,000

11451500 NORTH FORK CACHE CREEK NEAR LOWER LAKE, CALIF.

LOCATION.--Lat 39°01'09", long 122°34'04", in NE¼ sec.31, T.14 N., R.6 W. (unsurveyed), Lake County, on right bank 500 ft upstream from Sweet Hollow Creek, 5 miles upstream from mouth, and 7 miles northeast of Lower Lake.

DRAINAGE AREA.--197 sq mi (revised).

PERIOD OF RECORD.--July 1930 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 1,035.60 ft above mean sea level. Prior to June 15, 1939, at datum 1.00 ft higher.

AVERAGE DISCHARGE.--40 years, 195 cfs (141,300 acre-ft per year); median of yearly mean discharges, 150 cfs (109,000 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (3,500 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Jan. 4, 1966	2145	*12,900	10.53	Jan. 29, 1968	2000	*6,640	8.30	Dec. 19, 1969	1415	4,000	7.45
								Dec. 23, 1969	2245	4,800	7.80
Dec. 2, 1966	1800	6,290	8.16	Dec. 15, 1968	1400	3,730	7.35	Jan. 9, 1970	1645	4,780	7.79
Dec. 5, 1966	0100	8,230	8.90	Jan. 13, 1969	1100	*7,960	9.40	Jan. 14, 1970	0845	11,200	9.99
Jan. 21, 1967	1045	*10,800	9.83	Jan. 21, 1969	0930	7,620	9.26	Jan. 21, 1970	0445	7,600	8.82
Jan. 29, 1967	0715	7,470	8.62	Jan. 26, 1969	0500	3,710	7.34	Jan. 23, 1970	2345	*16,000	11.39
				Feb. 11, 1969	1230	4,020	7.54	Jan. 27, 1970	0415	4,950	7.86
Jan. 14, 1968	2015	4,480	7.32								

Annual minimum daily discharge, water years 1966-67

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Sept.30, 1966	1.0	1969	Oct. 10, 1968	1.2
1967	Oct. 11, 1966	1.2	1970	Sept.25, 1970	.93
1968	Sept.15, 16, 1968	1.3			

Period of record: Maximum discharge, 20,300 cfs Dec. 11, 1937 (gage height, 13.98 ft, present datum, from floodmarks), from rating curve extended above 7,600 cfs on basis of slope-area measurement at gage height 13.9 ft for peak of Feb. 28, 1940; no flow at times in 1930-36, 1949-50, 1956-57.

REMARKS.--Records fair. No regulation; several small diversions for irrigation of about 150 acres above station. Water-quality records for the water year 1966 are published in reports of the Geological Survey.

REVISIONS (WATER YEARS).--WSP 831: 1932(M). WSP 1315-A: 1935(M), 1937-38(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	2.6	107	412	485	240	104	55	21	6.5	3.0	3.2
2	2.7	2.6	93	325	476	228	98	54	22	6.9	2.3	2.1
3	2.8	2.6	81	589	575	212	95	52	22	6.5	1.9	1.9
4	3.0	2.6	73	6.310	2,020	202	91	51	20	6.5	1.9	2.3
5	3.0	2.6	68	6.860	1,440	200	89	50	20	6.5	1.9	2.3
6	2.7	3.8	63	3.220	1,110	195	87	48	22	5.7	2.1	1.6
7	2.7	3.0	60	1.490	860	188	84	48	23	6.1	2.3	1.6
8	2.8	3.5	55	1.040	670	180	82	47	23	6.1	2.3	1.9
9	2.7	2.8	53	758	550	218	84	48	20	6.1	1.6	1.6
10	2.9	2.6	50	595	464	328	100	52	18	5.3	1.6	1.9
11	2.8	2.6	50	472	400	292	136	48	17	5.3	1.9	2.8
12	2.8	3.4	63	396	352	261	182	45	16	4.9	1.4	2.8
13	2.8	7.7	61	328	310	246	158	43	16	4.9	1.4	2.6
14	2.7	372	53	282	285	231	129	41	14	4.9	2.1	3.0
15	2.8	342	48	249	264	220	114	40	12	4.5	2.1	2.1
16	2.7	150	43	220	243	228	104	39	11	4.1	1.6	2.1
17	2.7	125	41	200	231	212	100	36	10	4.1	1.6	1.9
18	2.7	515	38	185	220	202	93	34	10	3.7	1.3	1.6
19	2.8	326	37	168	302	195	87	33	9.0	3.7	1.4	3.2
20	2.7	177	37	150	285	180	82	31	9.0	3.5	1.3	2.8
21	2.7	117	37	138	249	172	80	30	9.6	3.7	1.9	2.1
22	2.7	92	37	132	237	162	75	29	9.0	3.5	2.3	1.2
23	2.7	77	34	123	249	155	72	28	9.0	3.2	1.4	1.6
24	2.6	425	265	112	258	148	68	27	8.3	3.0	1.6	1.9
25	2.6	367	470	104	258	141	67	26	8.3	2.6	1.6	2.1
26	2.6	239	239	100	276	134	64	25	8.3	2.6	2.3	2.1
27	2.6	240	183	93	255	129	61	25	7.7	2.6	1.9	1.3
28	2.6	191	789	85	246	123	61	24	6.9	2.6	1.9	1.2
29	2.6	148	983	228	------	119	60	24	6.9	2.3	2.6	1.2
30	2.6	125	625	635	------	114	56	24	6.9	3.0	2.8	1.0
31	2.6	------	543	372	------	108	------	23	------	3.2	4.1	------
TOTAL	84.5	4,070.4	5.379	26.371	13,570	5,963	2.763	1.180	415.9	138.1	61.4	61.0
MEAN	2.73	136	174	851	485	192	92.1	38.1	13.9	4.45	1.98	2.03
MAX	3.0	515	983	6.860	2.020	328	182	55	23	6.9	4.1	3.2
MIN	2.6	2.6	34	85	220	108	56	23	6.9	2.3	1.3	1.0
AC-FT	168	8,070	10,670	52.310	26,920	11,830	5,480	2.340	825	274	122	121

CAL YR 1965 TOTAL 80,638.9 MEAN 221 MAX 9,110 MIN 2.6 AC-FT 159,900
WTR YR 1966 TOTAL 60.057.3 MEAN 165 MAX 6,860 MIN 1.0 AC-FT 119,100

11451500 NORTH FORK CACHE CREEK NEAR LOWER LAKE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	2.1	175	85	2,280	119	364	388	102	34	7.7	3.2
2	1.6	4.1	1,870	82	1,400	114	336	360	210	32	7.3	3.2
3	1.3	2.1	1,250	80	979	112	328	344	198	30	7.3	3.2
4	1.3	1.9	2,440	77	740	108	324	328	170	31	7.3	3.5
5	1.3	1.4	4,270	72	595	98	328	310	150	31	6.9	3.5
6	1.3	3.0	1,820	70	520	93	505	289	139	30	6.9	3.0
7	1.6	2.6	1,160	67	460	87	560	273	129	28	6.5	3.0
8	1.6	1.9	770	66	412	84	485	261	117	27	6.1	3.2
9	1.4	1.6	555	63	372	82	440	252	106	27	6.1	3.0
10	1.4	1.6	590	63	332	95	452	255	98	27	5.7	3.0
11	1.2	1.6	495	61	303	267	460	231	93	23	5.7	2.8
12	1.6	2.1	416	60	279	310	412	218	93	22	5.3	2.9
13	1.4	2.1	376	58	264	344	384	203	93	20	5.3	2.9
14	1.9	2.1	352	57	249	289	376	188	82	18	4.9	2.2
15	1.9	3.0	289	54	231	292	376	175	75	17	4.1	2.1
16	1.9	99	252	52	220	1,820	360	170	72	16	4.1	2.8
17	1.9	46	225	51	210	1,000	464	163	66	15	3.5	3.0
18	1.9	23	205	50	198	675	595	153	63	13	3.7	3.3
19	2.1	255	190	50	188	545	525	136	60	13	3.7	2.5
20	2.1	1,340	180	1,310	173	550	476	117	59	13	3.5	2.8
21	2.1	650	165	8,280	165	535	550	121	54	12	3.2	2.3
22	2.1	540	160	3,150	160	464	510	143	54	11	3.0	2.9
23	2.1	237	141	1,320	153	480	585	121	51	11	3.2	3.0
24	2.1	153	134	1,600	150	424	692	114	49	11	3.0	2.9
25	2.1	110	125	1,140	155	380	640	106	47	10	3.2	2.9
26	2.1	89	117	2,450	139	344	590	102	45	9.0	3.2	2.7
27	2.1	77	108	2,640	132	310	565	98	42	9.6	3.0	2.6
28	2.1	101	102	3,510	125	294	510	97	41	9.0	3.2	2.7
29	1.9	220	98	5,190	------	270	464	95	38	8.3	3.0	2.8
30	1.9	170	95	4,040	------	320	420	93	37	9.0	3.0	2.7
31	2.1	------	89	3,880	------	376	------	91	------	8.3	3.2	------
TOTAL	54.8	4,143.2	19,214	39,728	11,584	11,281	14,076	5,995	2,633	575.2	145.8	86.6
MEAN	1.77	138	620	1,282	414	364	469	193	87.8	18.6	4.70	2.89
MAX	2.1	1,340	4,270	8,280	2,280	1,820	692	388	210	34	7.7	3.5
MIN	1.2	1.4	89	50	125	82	324	91	37	8.3	3.0	2.1
AC-FT	109	8,220	38,110	78,800	22,980	22,380	27,920	11,890	5,220	1,140	289	172

CAL YR 1966 TOTAL 73,935.4 MEAN 203 MAX 6,860 MIN 1.0 AC-FT 146,700
WTR YR 1967 TOTAL 109,516.6 MEAN 300 MAX 8,280 MIN 1.2 AC-FT 217,200

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	3.1	35	36	512	358	250	61	24	6.4	2.8	2.2
2	4.0	3.1	26	34	1,600	325	240	59	23	6.3	2.8	2.2
3	4.4	3.1	145	30	1,360	295	210	56	23	5.7	2.7	2.4
4	3.4	3.1	148	30	906	273	195	55	23	5.2	2.8	2.2
5	4.0	3.4	316	29	740	260	185	53	23	5.5	2.8	2.1
6	3.7	3.4	137	28	680	245	178	51	24	5.2	2.8	1.8
7	3.7	3.7	230	27	610	243	165	49	23	5.2	2.5	1.8
8	3.4	3.7	154	28	516	245	155	49	21	5.0	2.5	1.5
9	3.4	4.0	96	30	428	221	150	48	21	4.6	2.5	1.7
10	3.4	4.0	71	792	382	205	140	46	20	4.3	2.5	1.7
11	3.4	4.0	59	293	322	193	132	48	17	4.1	2.5	1.8
12	3.4	4.0	49	190	283	305	125	49	17	4.1	2.7	1.7
13	3.4	5.2	42	184	253	552	118	50	14	4.1	2.8	1.5
14	3.1	11	34	1,450	227	524	110	55	13	4.3	2.8	1.4
15	3.1	11	37	1,950	205	480	106	50	14	4.3	2.5	1.3
16	3.4	10	36	730	361	1,010	103	46	14	4.3	2.4	1.3
17	3.4	8.6	35	448	1,160	840	98	43	13	4.1	2.4	1.4
18	3.4	9.2	78	305	715	645	95	41	12	4.1	2.4	1.5
19	3.4	8.6	78	238	1,700	516	93	41	11	3.9	2.7	2.2
20	3.4	8.0	61	200	1,500	475	89	41	10	3.6	3.1	3.1
21	3.4	8.0	50	173	1,780	440	80	39	9.0	3.9	7.9	2.4
22	3.4	7.6	45	150	1,350	400	83	38	8.7	4.1	8.7	1.8
23	3.4	7.6	42	131	1,050	370	80	39	8.7	4.1	4.6	2.7
24	3.4	8.0	40	120	820	340	73	37	8.3	3.9	3.6	5.3
25	3.4	8.0	49	112	700	310	72	40	6.8	3.6	3.3	5.7
26	3.4	8.0	58	105	550	285	69	37	6.8	3.6	3.3	6.1
27	3.4	8.0	53	99	475	270	67	35	6.4	3.3	3.1	6.8
28	7.2	8.6	48	99	444	255	66	32	6.1	3.0	2.8	6.4
29	3.4	13	43	2,470	391	240	63	28	6.1	2.8	2.4	6.1
30	2.8	35	40	2,180	------	220	61	25	6.1	2.8	2.1	6.1
31	3.1	------	38	700	------	225	------	25	------	2.8	2.1	------
TOTAL	109.4	226.0	2,373	13,391	22,020	11,565	3,651	1,366	433.0	132.2	96.9	86.2
MEAN	3.53	7.53	76.5	432	759	373	122	44.1	14.4	4.26	3.13	2.87
MAX	7.2	35	316	2,470	1,780	1,010	250	61	24	6.4	8.7	6.8
MIN	2.3	3.1	26	27	205	193	61	25	6.1	2.8	2.1	1.3
AC-FT	217	448	4,710	26,560	43,680	22,940	7,240	2,710	859	262	192	171

CAL YR 1967 TOTAL 88,813.0 MEAN 243 MAX 8,280 MIN 2.1 AC-FT 176,200
WTR YR 1968 TOTAL 55,449.7 MEAN 152 MAX 2,470 MIN 1.3 AC-FT 110,000

11451500 NORTH FORK CACHE CREEK NEAR LOWER LAKE, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	2.5	17	270	800	1,500	327	121	44	16	5.6	2.8
2	6.2	6.5	17	248	760	1,250	332	118	41	15	5.4	2.4
3	6.2	6.2	17	241	698	1,110	322	111	39	14	5.3	2.3
4	6.2	4.0	16	256	660	970	283	109	38	14	4.9	2.3
5	5.5	3.5	16	290	941	908	343	104	36	13	4.4	2.4
6	3.3	3.5	16	267	1,590	865	338	98	34	13	4.6	2.3
7	2.3	4.9	16	236	1,130	800	311	96	33	12	4.5	2.3
8	1.9	5.8	16	211	963	730	286	92	32	12	4.4	2.4
9	1.8	6.2	20	191	2,540	707	272	89	31	11	4.1	2.5
10	1.2	6.5	458	171	2,040	740	254	84	30	11	3.9	2.5
11	1.8	6.9	333	595	3,070	652	237	82	30	10	4.1	2.5
12	3.3	8.0	142	2,530	2,790	600	229	82	30	10	4.1	2.3
13	2.5	8.4	101	5,410	1,730	542	220	79	29	9.8	4.1	2.0
14	2.3	11	400	2,590	1,620	492	212	79	27	9.7	3.7	2.2
15	2.1	19	1,380	1,500	2,680	468	201	79	27	9.7	3.4	2.2
16	1.9	22	536	974	1,990	462	188	77	25	9.3	3.4	2.1
17	1.9	22	223	725	1,550	572	180	75	24	8.9	3.8	2.2
18	1.8	24	144	776	1,270	624	174	72	24	8.7	3.9	1.9
19	1.8	26	110	2,230	1,010	576	167	71	23	8.3	3.9	2.2
20	4.8	23	85	3,380	881	553	157	69	22	8.3	4.0	2.3
21	2.5	20	70	5,600	785	524	152	68	21	7.7	3.2	2.2
22	2.1	17	62	1,600	703	468	144	65	21	7.7	3.4	2.1
23	2.1	16	147	1,140	740	448	214	63	20	7.6	3.3	2.2
24	1.9	16	1,010	1,020	914	432	216	60	20	7.4	3.2	2.1
25	2.1	15	1,710	1,960	952	416	182	57	20	7.4	3.1	2.1
26	2.1	15	920	2,790	850	398	163	54	19	7.2	3.1	2.0
27	2.1	15	539	1,770	881	392	152	53	19	6.3	3.1	2.0
28	2.1	14	530	1,360	1,880	389	140	51	18	5.7	3.3	2.1
29	2.7	14	468	1,030	------	377	133	50	17	5.6	3.4	2.0
30	2.9	15	377	892	------	362	127	48	17	5.4	3.3	1.6
31	2.7	------	310	775	------	349	------	45	------	5.3	3.1	------
TOTAL	90.3	376.9	10,206	43,028	38,418	19,676	6,656	2,401	811	297.0	121.0	66.5
MEAN	2.91	12.6	329	1,388	1,372	635	222	77.5	27.0	9.58	3.90	2.22
MAX	6.2	26	1,710	5,600	3,070	1,500	343	121	44	16	5.6	2.8
MIN	1.2	2.5	16	171	660	349	127	45	17	5.3	3.1	1.6
AC-FT	179	748	20,240	85,350	76,200	39,030	13,200	4,760	1,610	589	240	132

CAL YR 1968 TOTAL 63,414.5 MEAN 173 MAX 2,470 MIN 1.2 AC-FT 125,800
WTR YR 1969 TOTAL 122,147.7 MEAN 335 MAX 5,600 MIN 1.2 AC-FT 242,300

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	5.2	9.4	175	730	595	145	67	24	9.5	4.1	2.9
2	6.0	5.2	9.5	151	645	436	140	60	23	9.0	4.3	2.8
3	3.5	5.2	9.7	136	590	384	134	61	22	9.2	4.3	2.7
4	2.9	6.0	9.9	126	545	535	129	59	25	9.0	4.4	2.7
5	2.8	30	10	115	500	530	126	54	25	8.9	4.2	2.5
6	2.8	19	10	106	456	460	121	53	24	8.6	4.2	2.4
7	2.5	16	10	102	428	436	116	53	24	8.2	4.1	2.5
8	2.6	23	12	121	400	510	113	51	21	8.0	4.0	2.6
9	2.7	15	12	2,340	372	472	110	52	24	7.8	3.8	2.5
10	2.3	13	16	1,640	351	464	107	54	23	7.6	3.4	2.0
11	2.2	12	60	978	342	420	103	56	22	7.5	5.2	1.8
12	2.3	11	649	910	420	388	102	60	20	7.4	6.1	1.7
13	2.5	10	595	1,700	1,150	357	100	58	19	7.1	4.5	1.7
14	2.9	10	180	6,310	925	339	105	54	19	7.0	3.8	1.7
15	14	11	115	2,670	720	324	105	49	18	6.9	3.4	1.7
16	15	10	75	6,310	810	306	105	46	17	6.7	3.1	1.8
17	9.5	9.8	59	4,020	1,090	288	106	43	16	6.6	2.8	1.8
18	7.2	9.7	59	2,240	870	270	94	42	16	6.2	2.7	1.8
19	6.2	9.5	1,450	1,690	745	258	92	40	15	6.1	2.6	1.8
20	5.5	9.5	1,190	1,770	660	249	88	39	15	5.9	2.5	1.8
21	5.4	9.6	1,680	6,000	595	240	88	39	15	5.7	2.5	1.7
22	5.3	9.6	800	4,180	545	230	86	38	14	5.3	2.4	1.3
23	5.2	9.5	1,890	6,360	505	221	83	35	14	5.0	2.3	1.3
24	5.3	9.4	2,520	8,320	460	209	81	32	13	4.9	2.4	1.3
25	5.4	9.7	996	3,470	424	197	79	31	13	4.8	2.5	.93
26	5.4	9.8	680	2,090	396	190	80	29	11	4.5	2.7	.96
27	5.4	9.5	485	3,010	368	178	82	29	11	4.8	2.7	1.1
28	5.4	9.6	376	1,850	380	178	80	27	10	5.1	2.7	1.2
29	5.3	9.5	303	1,360	------	173	75	29	9.5	4.8	2.7	1.4
30	5.3	9.6	246	1,090	------	164	73	27	9.0	4.6	2.8	1.5
31	5.2	------	206	870	------	153	------	25	------	4.6	2.8	------
TOTAL	157.5	335.9	14,722.5	72,210	16,422	10,154	3,048	1,392	531.5	207.3	106.0	55.89
MEAN	5.08	11.2	475	2,329	587	328	102	44.9	17.7	6.69	3.42	1.86
MAX	15	30	2,520	8,320	1,150	595	145	67	25	9.5	6.1	2.9
MIN	2.2	5.2	9.4	102	342	153	73	25	9.0	4.5	2.3	.93
AC-FT	312	666	29,200	143,200	32,570	20,140	6,050	2,760	1,050	411	210	111

CAL YR 1969 TOTAL 126,690.40 MEAN 347 MAX 5,600 MIN 1.6 AC-FT 251,300
WTR YR 1970 TOTAL 119,342.59 MEAN 327 MAX 8,320 MIN .93 AC-FT 236,700

11451720 BEAR CREEK NEAR RUMSEY, CALIF.

LOCATION.--Lat 38°56'42", long 122°20'42", in NE¼SW¼ sec.30, T.13 N., R.4 W., Colusa County, on left bank 0.3 mile downstream from Brophy Canyon, 1.4 miles upstream from mouth, and 7.3 miles northwest of Rumsey.

DRAINAGE AREA.--100 sq mi.

PERIOD OF RECORD.--October 1958 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 750 ft (from topographic map).

AVERAGE DISCHARGE.--12 years, 45.9 cfs (33,250 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 4, 1966	4,550	8.65	Sept. 6, 1966	.80
1967	Jan. 21, 1967	6,950	10.50	Sept. 4-6, 1967	.70
1968	Jan. 29, 1968	7,810	11.07	Sept.30, 1968	1.2
1969	Jan. 21, 1969	3,520	7.88	Many days	1.1
1970	Jan. 23, 1970	5,900	10.10	Sept.26, 1970	.60

Period of record: Maximum discharge, 9,720 cfs Jan. 5, 1965 (gage height, 11.93 ft); no flow July 25, 26, Aug. 20, 1960.
Maximum stage since 1955, 12.33 ft Feb. 24, 1958 (discharge, 9,350 cfs).

REMARKS.--No regulation or diversion above station.

COOPERATION.--Records furnished by California Department of Water Resources and reviewed by Geological Survey.

REVISIONS.--WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.6	11	48	153	44	19	8.8	3.3	1.8	1.1	1.3
2	1.2	1.7	10	36	90	40	19	8.4	3.2	1.7	1.1	1.2
3	1.3	1.8	9.4	52	240	37	18	8.3	3.3	1.8	1.1	1.0
4	1.3	1.7	8.9	1,850	706	36	17	8.0	3.4	1.8	1.1	1.0
5	1.5	1.7	8.2	1,410	190	37	17	7.6	3.3	1.8	1.0	.90
6	1.5	1.8	7.7	289	122	38	17	7.6	3.5	1.7	1.0	.80
7	1.5	2.0	7.1	157	92	35	17	7.5	4.0	1.7	1.0	.90
8	1.6	2.4	7.2	119	79	33	16	7.8	3.7	1.7	1.0	1.1
9	1.6	2.6	7.3	95	68	35	17	8.0	3.3	1.8	1.0	1.2
10	1.5	2.1	7.0	83	62	40	22	9.8	3.0	1.9	1.0	1.2
11	1.7	2.1	7.0	71	55	36	21	9.3	2.8	1.8	1.0	1.2
12	1.7	2.1	11	64	53	33	20	8.2	2.9	1.8	1.0	1.2
13	1.6	8.0	11	58	48	32	18	7.9	2.6	1.8	1.0	1.3
14	1.7	34	9.1	54	48	31	16	5.9	2.5	1.8	1.0	1.4
15	1.8	41	7.6	51	46	30	16	5.2	2.7	1.8	1.0	1.4
16	1.7	20	6.9	46	43	30	16	4.7	2.6	1.7	1.0	1.3
17	1.5	16	6.3	42	42	27	15	4.3	2.4	1.6	1.0	1.3
18	1.5	88	5.8	41	41	27	14	4.1	2.2	1.6	1.0	1.3
19	1.6	50	5.7	39	105	27	13	4.0	2.1	1.6	1.0	1.5
20	1.6	23	5.4	36	72	26	12	3.9	2.0	1.5	1.0	1.9
21	1.6	15	5.7	35	50	25	12	3.8	2.0	1.5	1.0	1.6
22	1.6	11	6.0	35	47	25	11	3.9	2.3	1.4	1.0	1.4
23	1.5	9.0	5.4	34	54	24	9.5	3.8	2.2	1.4	1.0	1.2
24	1.6	71	20	32	61	24	9.1	3.8	2.3	1.3	1.0	1.2
25	1.6	72	84	31	53	24	8.9	3.7	2.1	1.3	1.0	1.3
26	1.7	30	27	31	66	23	8.6	3.5	1.9	1.3	1.0	1.3
27	1.7	21	18	30	48	23	7.9	3.4	1.9	1.2	1.0	1.3
28	1.7	17	426	28	44	22	8.9	3.6	1.8	1.2	1.0	1.0
29	1.7	15	283	73	------	21	9.7	3.5	1.7	1.2	1.0	.90
30	1.7	13	105	235	------	21	9.3	3.5	1.7	1.1	1.0	1.0
31	1.6	------	84	82	------	20	------	3.5	------	1.1	1.3	------
TOTAL	48.6	577.6	1,223.7	5,287	2,778	926	434.9	179.3	78.7	48.7	31.7	36.60
MEAN	1.57	19.3	39.5	171	99.2	29.9	14.5	5.78	2.62	1.57	1.02	1.22
MAX	1.8	88	426	1,850	706	44	22	9.8	4.0	1.9	1.3	1.9
MIN	1.2	1.6	5.4	28	41	20	7.9	3.4	1.7	1.1	1.0	.80
AC-FT	96	1,150	2,430	10,490	5,510	1,840	863	356	156	97	63	73

CAL YR 1965 TOTAL 16,204.20 MEAN 44.4 MAX 4,380 MIN .80 AC-FT 32,140
WTR YR 1966 TOTAL 11,650.80 MEAN 31.9 MAX 1,850 MIN .80 AC-FT 23,110

11451720 BEAR CREEK NEAR RUMSEY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.5	14	17	310	38	78	97	30	7.5	2.1	1.0
2	1.2	1.5	533	16	229	37	60	89	71	6.9	2.1	.90
3	1.3	1.6	261	15	180	37	54	83	114	6.3	2.1	.90
4	1.4	1.6	598	15	153	35	53	78	53	5.9	1.9	.70
5	1.3	1.6	1,010	15	132	32	54	74	46	5.6	1.7	.70
6	1.3	2.5	321	13	115	31	151	69	41	5.4	1.8	.70
7	1.3	3.9	123	13	106	30	127	63	37	5.0	1.8	.80
8	1.4	3.1	80	13	97	30	81	60	33	5.5	1.7	.80
9	1.3	2.2	60	13	90	29	65	57	29	5.5	1.7	.80
10	1.3	1.9	86	12	83	37	70	59	27	4.9	1.6	.90
11	1.2	1.8	65	12	74	118	91	54	25	4.7	1.6	.90
12	1.3	1.9	51	12	71	202	67	52	26	4.5	1.5	.90
13	1.3	2.0	47	12	68	164	58	49	35	4.2	1.6	.80
14	1.2	2.1	46	11	62	99	54	46	27	3.8	1.4	.90
15	1.1	3.2	39	11	58	181	63	44	23	3.7	1.4	1.0
16	1.2	6.9	35	10	57	836	65	43	22	3.7	1.3	1.0
17	1.3	5.3	32	9.4	55	162	144	42	20	3.6	1.1	1.0
18	1.3	3.3	30	9.5	53	104	213	39	19	3.4	1.0	1.3
19	1.4	20	28	9.5	50	83	139	37	18	3.3	1.2	1.6
20	1.5	239	27	210	45	79	89	36	17	3.2	1.1	1.2
21	1.5	105	26	4,120	44	84	367	35	16	3.2	1.2	1.1
22	1.5	49	24	646	44	72	263	33	14	3.1	1.1	1.2
23	1.5	21	23	186	44	71	286	31	12	3.0	1.0	1.2
24	1.5	9.7	23	962	44	60	459	29	11	3.0	1.0	1.3
25	1.5	6.7	22	370	52	56	246	28	10	2.8	1.0	1.4
26	1.5	5.6	21	818	43	53	164	26	9.7	2.7	1.0	1.3
27	1.5	5.0	19	639	40	50	143	24	9.2	2.6	1.0	1.2
28	1.6	16	18	749	38	50	124	23	8.7	2.6	1.0	1.3
29	1.6	40	18	1,640	------	48	115	24	8.2	2.6	.90	1.3
30	1.5	25	19	974	------	104	103	24	8.0	2.6	.90	1.4
31	1.5	------	17	653	------	141	------	24	------	2.2	1.1	------
TOTAL	42.4	589.9	3,716	12,205.4	2,437	3,153	4,046	1,472	819.8	127.0	42.90	31.50
MEAN	1.37	19.7	120	394	87.0	102	135	47.5	27.3	4.10	1.38	1.05
MAX	1.6	239	1,010	4,120	310	836	459	97	114	7.5	2.1	1.6
MIN	1.1	1.5	14	9.4	38	29	53	23	8.0	2.2	.90	.70
AC-FT	84	1,170	7,370	24,210	4,830	6,250	8,030	2,920	1,630	252	85	62

CAL YR 1966 TOTAL 14,149.20 MEAN 38.8 MAX 1,850 MIN .80 AC-FT 28,060
WTR YR 1967 TOTAL 28,682.90 MEAN 78.6 MAX 4,120 MIN .70 AC-FT 56,890

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	2.6	5.5	4.3	133	65	46	9.9	2.9	3.3	4.0	2.7
2	2.0	2.6	4.0	4.4	763	62	56	9.7	3.0	3.2	4.0	2.6
3	3.1	2.6	15	4.3	377	56	47	9.0	2.9	3.4	4.1	2.7
4	2.8	2.7	27	4.1	170	53	42	8.6	2.9	3.3	4.1	2.7
5	2.4	2.8	40	4.0	127	51	39	8.3	3.0	3.3	4.0	2.6
6	2.5	2.9	11	4.0	121	47	37	8.0	3.5	3.3	3.9	2.6
7	2.2	2.9	13	4.0	102	49	33	7.7	3.1	3.3	3.8	2.4
8	2.1	2.9	9.2	4.5	85	64	31	7.5	3.0	3.3	3.8	2.4
9	2.1	2.9	6.3	5.4	77	62	30	7.2	3.0	3.4	3.7	2.4
10	2.2	2.8	5.4	247	71	53	28	7.0	2.9	3.4	3.8	2.4
11	2.2	2.8	4.9	59	63	47	28	6.5	2.9	3.4	3.7	2.3
12	2.2	2.9	4.5	25	57	94	27	6.3	2.9	3.4	3.6	2.2
13	2.1	3.2	3.9	20	53	178	25	6.6	2.9	3.4	3.6	2.3
14	2.0	5.3	3.5	485	49	88	24	9.1	2.9	3.4	3.4	2.1
15	1.7	5.2	3.8	501	44	78	23	7.6	2.9	3.5	3.5	2.0
16	1.8	3.8	4.5	98	160	503	22	5.7	2.9	3.6	3.5	2.0
17	2.0	3.2	4.4	50	814	156	21	4.8	2.9	3.6	3.4	2.0
18	2.1	3.1	15	33	168	99	20	4.5	2.9	3.6	3.4	1.9
19	2.2	3.2	14	25	567	86	20	4.5	2.9	3.6	3.3	1.9
20	2.3	3.2	6.8	21	515	80	18	4.6	3.0	3.6	3.3	1.8
21	2.4	2.8	5.5	17	337	76	17	4.3	3.1	3.7	3.1	1.8
22	2.6	2.5	5.0	15	161	71	15	4.2	3.1	3.8	3.3	1.8
23	2.6	2.5	4.6	12	127	66	15	4.6	3.1	3.8	3.1	1.8
24	2.6	2.6	4.3	11	108	61	16	4.6	3.1	3.8	3.0	1.6
25	2.6	2.6	4.1	11	94	57	15	4.6	3.1	3.8	3.1	1.6
26	2.5	2.6	4.2	11	84	53	14	4.2	3.1	3.8	2.9	1.6
27	2.6	2.5	4.4	10	79	50	12	4.1	3.3	3.8	2.9	1.5
28	2.8	2.7	4.6	10	73	48	12	4.0	3.3	4.0	2.9	1.4
29	2.7	3.9	4.3	3,360	67	46	11	3.7	3.3	4.0	2.8	1.4
30	2.5	5.9	4.3	1,490	------	43	11	3.2	3.3	4.0	2.8	1.2
31	2.5	------	4.3	236	------	41	------	3.0	------	4.0	2.7	------
TOTAL	71.8	94.2	251.3	6,786.0	5,646	2,583	755	187.6	91.1	110.8	106.5	61.7
MEAN	2.32	3.14	8.11	219	195	83.3	25.2	6.05	3.04	3.57	3.44	2.06
MAX	3.1	5.9	40	3,360	814	503	56	9.9	3.5	4.0	4.1	2.7
MIN	1.4	2.5	3.5	4.0	44	41	11	3.0	2.9	3.2	2.7	1.2
AC-FT	142	187	498	13,460	11,200	5,120	1,500	372	181	220	211	122

CAL YR 1967 TOTAL 24,751.90 MEAN 67.8 MAX 4,120 MIN .70 AC-FT 49,100
WTR YR 1968 TOTAL 16,745.00 MEAN 45.8 MAX 3,360 MIN 1.2 AC-FT 33,210

11451720 BEAR CREEK NEAR RUMSEY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.1	3.1	39	138	551	71	37	8.7	3.7	1.1	1.7
2	1.4	2.5	2.9	36	128	420	74	35	8.5	3.4	1.1	1.7
3	1.4	5.8	2.6	34	114	373	87	34	7.5	3.2	1.1	1.7
4	1.5	4.1	2.5	32	105	267	71	34	6.8	3.2	1.1	1.7
5	1.4	3.2	2.5	34	200	234	84	33	6.6	3.1	1.1	1.7
6	1.5	2.9	2.6	30	380	213	90	33	6.2	3.0	1.2	1.8
7	1.6	2.9	2.7	27	250	195	78	33	6.1	2.8	1.2	1.8
8	1.5	2.9	3.2	25	430	178	66	33	6.3	2.9	1.2	1.8
9	1.5	2.5	4.2	22	750	182	63	32	7.0	2.6	1.2	1.8
10	1.5	2.3	53	21	560	390	60	32	8.1	2.3	1.2	1.8
11	1.6	2.1	68	29	970	264	55	32	7.6	2.1	1.3	1.9
12	2.2	2.1	17	295	670	221	51	31	7.1	1.8	1.3	1.9
13	2.8	1.9	8.7	1,480	470	182	49	31	6.6	1.6	1.3	1.9
14	2.4	2.6	64	227	550	161	50	30	6.1	1.5	1.3	1.9
15	2.2	5.3	502	101	740	148	49	29	5.8	1.4	1.3	1.9
16	2.1	5.7	113	75	460	137	46	27	5.8	1.5	1.4	1.9
17	1.9	4.2	39	63	365	141	45	26	5.6	1.4	1.4	1.9
18	1.9	4.2	23	242	305	132	44	25	5.5	1.3	1.4	1.9
19	1.8	4.5	16	663	274	120	43	24	5.6	1.2	1.4	1.9
20	1.7	3.7	12	796	224	123	43	23	5.6	1.2	1.4	1.9
21	1.7	3.2	9.4	2,050	192	159	43	22	5.2	1.3	1.5	2.0
22	1.4	3.1	8.3	404	179	121	42	21	5.0	1.2	1.5	1.9
23	1.2	2.9	14	193	310	106	46	20	4.7	1.2	1.5	1.9
24	1.1	3.1	420	171	660	96	53	18	4.4	1.3	1.5	1.8
25	1.1	3.2	743	377	529	93	49	17	4.1	1.1	1.5	1.8
26	1.1	2.8	210	1,210	278	90	45	15	4.1	1.1	1.6	1.8
27	1.1	2.6	80	292	291	87	43	14	4.6	1.1	1.6	1.7
28	1.1	2.4	130	196	1,360	84	41	12	4.4	1.1	1.6	1.8
29	1.1	2.4	85	150	------	81	39	10	4.1	1.1	1.6	1.8
30	1.1	2.7	57	170	------	76	38	9.1	3.8	1.1	1.6	1.7
31	1.1	------	45	134	------	73	------	9.0	------	1.1	1.6	------
TOTAL	48.4	94.9	2,743.7	9,618	11,882	5,698	1,658	781.1	177.5	57.9	42.1	54.7
MEAN	1.56	3.16	88.5	310	424	184	55.3	25.2	5.92	1.87	1.36	1.82
MAX	2.8	5.8	743	2,050	1,360	551	90	37	8.7	3.7	1.6	2.0
MIN	1.1	1.1	2.5	21	105	73	38	9.0	3.8	1.1	1.1	1.7
AC-FT	96	188	5,440	19,080	23,570	11,300	3,290	1,550	352	115	84	108

CAL YR 1968 TOTAL 19,214.7 MEAN 52.5 MAX 3,360 MIN 1.1 AC-FT 38,110
WTR YR 1969 TOTAL 32,856.3 MEAN 90.0 MAX 2,050 MIN 1.1 AC-FT 65,170

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	2.2	5.8	23	192	286	45	22	6.4	3.7	1.7	1.1
2	1.7	2.2	6.0	20	171	129	44	22	6.4	3.6	1.7	1.1
3	1.5	2.2	6.1	19	158	108	43	21	6.3	3.5	1.5	1.2
4	1.4	2.2	6.3	19	151	335	42	20	6.0	3.4	1.5	1.2
5	1.6	2.2	6.5	17	137	194	42	20	5.8	3.3	1.5	1.2
6	1.7	2.2	6.8	16	125	131	41	19	5.8	3.1	1.4	1.2
7	1.8	2.3	7.0	16	118	120	40	19	5.7	3.0	1.4	1.3
8	1.9	2.3	7.2	67	111	132	39	18	6.1	2.8	1.3	1.3
9	2.0	2.3	7.3	2,160	104	116	35	18	7.0	2.8	1.3	1.3
10	2.0	2.3	7.5	491	99	118	34	17	6.8	2.8	1.2	1.3
11	2.0	2.3	7.7	155	98	101	34	17	6.3	2.7	1.2	1.4
12	2.0	2.5	8.1	137	130	94	34	16	5.8	2.7	1.2	1.4
13	2.0	2.6	5.0	441	1,160	88	33	16	5.4	2.6	1.1	1.4
14	2.0	2.7	6.0	2,180	340	83	32	15	5.6	2.6	1.2	1.3
15	2.0	3.0	5.0	624	180	77	32	15	6.1	2.5	1.1	1.4
16	2.0	3.1	4.1	2,260	344	73	32	14	5.8	2.5	1.1	1.4
17	2.0	3.2	3.8	620	380	68	31	13	5.3	2.3	1.1	1.4
18	2.0	3.4	4.4	297	202	63	30	13	4.9	2.3	1.0	1.4
19	2.1	3.5	241	260	161	60	28	12	4.8	2.2	1.0	1.0
20	2.1	3.8	309	334	147	59	24	12	4.6	2.2	1.0	1.1
21	2.1	3.9	388	2,030	136	57	24	11	4.5	2.3	.90	1.2
22	2.1	4.1	75	874	125	56	24	10	4.5	2.2	.90	.90
23	2.1	4.2	792	2,090	122	54	24	9.8	4.5	2.2	.90	.80
24	2.1	4.4	1,170	2,280	118	53	24	9.2	4.3	2.1	.80	.80
25	2.1	4.7	128	635	109	51	24	8.6	4.2	2.1	.80	.80
26	2.1	4.8	70	431	107	51	24	8.3	4.1	2.0	.80	.60
27	2.1	5.0	48	977	103	50	24	8.1	4.0	2.0	.90	.70
28	2.2	5.2	38	367	110	49	23	7.8	3.9	2.0	.90	.90
29	2.2	5.3	32	286	------	48	23	7.9	3.8	1.9	.90	1.1
30	2.2	5.6	28	247	------	47	23	7.5	3.8	1.9	1.0	1.1
31	2.2	------	25	215	------	46	------	6.8	------	1.9	1.1	------
TOTAL	61.0	99.7	3,454.6	20,588	5,438	2,997	952	434.0	158.5	79.2	35.40	34.30
MEAN	1.97	3.32	111	664	194	96.7	31.7	14.0	5.28	2.55	1.14	1.14
MAX	2.2	5.6	1,170	2,280	1,160	335	45	22	7.0	3.7	1.7	1.4
MIN	1.4	2.2	3.8	16	98	46	23	6.8	3.8	1.9	.80	.60
AC-FT	121	198	6,850	40,840	10,790	5,940	1,890	861	314	157	70	68

CAL YR 1969 TOTAL 33,584.60 MEAN 92.0 MAX 2,050 MIN 1.1 AC-FT 66,620
WTR YR 1970 TOTAL 34,331.70 MEAN 94.1 MAX 2,280 MIN .60 AC-FT 68,100

11451760 CACHE CREEK ABOVE RUMSEY, CALIF.

LOCATION.--Lat 38°54'47", long 122°16'14", in SE¼ sec.2, T.12 N., R.4 W., Yolo County, on right bank 0.4 mile downstream from highway bridge and 2.5 miles northwest of Rumsey.

DRAINAGE AREA.--955 sq mi.

PERIOD OF RECORD.--October 1960 to September 1962, June 1965 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 480 ft (from topographic map).

AVERAGE DISCHARGE.--7 years, 782 cfs (566,600 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 4, 1966	23,600	15.65	Nov. 3, 1965	8.7
1967	Jan. 21, 1967	30,000	16.90	Nov. 12, 13, 1966	7.2
1968	Jan. 29, 1968	23,200	15.38	Nov. 26-28, 1967	13
1969	Jan. 21, 1969	20,200	14.63	Nov. 1, 9, 10, 1968	13
1970	Jan. 24, 1970	43,400	19.59	Nov. 3, 1969	4.3

Period of record: Maximum discharge, 43,400 cfs Jan. 24, 1970 (gage height, 19.59 ft), from rating curve extended above 14,000 cfs on basis of slope-area measurement at gage height 21.42 ft; *minimum*, 3.1 cfs Oct. 29, 1960.

Flood of Jan. 5, 1965, reached a stage of 21.42 ft, from floodmarks (discharge, 59,000 cfs, by slope-area measurement).

REMARKS.--Beginning in 1915, flow partly regulated by Clear Lake (see station 11450000). Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

COOPERATION.--*Records furnished by California Department of Water Resources and reviewed by Geological Survey.*

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	9.3	135	583	830	1,360	177	574	410	544	407	317
2	83	9.1	116	441	754	1,350	209	590	408	559	403	263
3	74	8.7	102	505	1,200	1,180	223	653	403	547	389	231
4	71	8.9	94	7,500	5,920	331	219	671	404	536	389	217
5	72	9.4	86	11,600	4,490	308	215	668	406	495	407	220
6	72	9.5	81	3,730	4,000	304	238	662	445	503	416	257
7	71	9.4	77	2,460	3,700	291	255	641	439	555	417	314
8	69	12	74	2,570	3,500	280	307	629	389	554	425	360
9	69	14	73	3,350	3,400	291	312	577	344	536	465	306
10	68	13	68	3,000	3,240	405	245	519	405	518	452	253
11	68	11	69	2,830	2,740	411	324	502	459	518	461	252
12	69	11	87	2,460	605	369	367	487	461	518	432	223
13	69	23	93	1,480	512	352	322	516	466	517	431	206
14	71	333	84	1,460	475	334	281	475	492	516	427	221
15	70	475	74	1,230	449	1,250	292	433	480	514	414	218
16	70	273	69	407	415	1,350	281	433	496	511	433	218
17	55	201	66	340	390	1,840	306	455	498	495	446	205
18	53	615	63	305	375	2,930	317	456	511	479	444	202
19	52	547	60	280	560	2,840	357	484	544	467	443	206
20	52	280	59	260	500	2,070	398	503	561	497	435	203
21	58	171	60	245	405	987	431	474	563	485	401	186
22	61	126	60	230	380	333	452	440	568	512	391	178
23	60	105	60	220	390	245	466	430	524	510	417	155
24	59	379	211	215	400	234	472	497	501	502	399	153
25	60	552	818	205	535	226	476	529	463	471	384	153
26	55	327	376	200	1,380	217	531	533	435	455	392	151
27	39	264	267	193	1,380	209	543	521	430	456	359	126
28	27	237	1,410	183	1,360	202	538	486	441	469	310	119
29	14	189	1,960	302	------	195	503	454	479	454	309	139
30	9.9	156	995	1,320	------	189	509	472	526	444	329	141
31	9.4	------	813	635	------	184	------	450	------	439	349	------
TOTAL	1,812.3	5,378.3	8,660	50,739	44,285	23,067	10,566	16,214	13,951	15,576	12,576	6,393
MEAN	58.5	179	279	1,637	1,582	744	352	523	465	502	406	213
MAX	83	615	1,960	11,600	5,920	2,930	543	671	568	559	465	360
MIN	9.4	8.7	59	183	375	184	177	430	344	439	309	119
AC-FT	3,590	10,670	17,180	100,600	87,840	45,750	20,960	32,160	27,670	30,890	24,940	12,680

WTR YR 1966 TOTAL 209,217.6 MEAN 573 MAX 11,600 MIN 8.7 AC-FT 415,000

11451760 CACHE CREEK ABOVE RUMSEY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	146	43	180	124	5,570	241	2,100	1,850	450	625	513	385
2	124	43	2,310	118	4,630	240	2,130	706	519	623	508	369
3	97	39	2,200	113	4,200	236	2,080	658	509	593	481	331
4	94	33	2,510	110	3,900	233	2,060	626	343	590	535	363
5	92	28	5,490	107	3,670	220	2,070	601	329	572	529	320
6	92	18	1,980	101	3,440	209	2,850	561	289	568	491	341
7	92	15	1,500	98	3,260	206	3,630	526	236	568	485	355
8	91	12	1,050	94	1,090	198	3,360	501	207	585	462	308
9	88	10	767	92	899	194	3,270	476	232	565	463	277
10	88	8.5	805	90	842	204	3,290	484	231	536	455	225
11	88	7.9	692	86	784	687	2,770	449	251	506	409	221
12	89	7.2	576	87	749	814	715	421	253	503	409	218
13	76	7.2	509	85	716	1,510	629	390	294	500	407	216
14	70	7.5	497	82	683	3,290	597	364	279	520	408	215
15	62	10	421	80	651	3,230	589	343	270	521	422	213
16	57	28	371	76	635	7,360	595	325	263	547	400	214
17	57	110	333	74	603	4,500	1,660	311	320	532	379	216
18	50	123	300	73	396	4,000	3,870	290	417	540	408	216
19	44	182	275	72	364	3,750	3,710	282	472	594	465	202
20	43	2,000	255	354	337	3,660	3,190	464	505	605	474	200
21	44	903	236	17,800	316	3,650	3,820	456	512	571	475	178
22	42	599	216	4,650	307	3,480	3,700	512	508	544	481	181
23	42	351	202	2,040	297	3,480	3,780	539	501	484	480	200
24	42	196	190	3,340	292	3,040	4,210	570	502	474	472	199
25	43	133	179	2,350	309	788	3,830	558	545	511	435	171
26	45	102	167	3,430	282	764	3,380	546	589	528	367	168
27	45	84	155	5,160	260	717	2,720	533	627	527	344	166
28	45	105	146	6,790	248	696	2,470	496	624	524	382	165
29	44	349	141	11,700	------	674	2,390	444	622	520	392	164
30	43	249	138	8,440	------	875	2,320	436	631	518	379	142
31	44	------	130	7,640	------	2,020	------	430	------	518	390	------
TOTAL	2,119	5,803.3	24,921	75,456	39,730	55,166	77,785	16,148	12,330	16,912	13,700	7,139
MEAN	68.4	193	804	2,434	1,419	1,780	2,593	521	411	546	442	238
MAX	146	2,000	5,490	17,800	5,570	7,360	4,210	1,850	631	625	535	385
MIN	42	7.2	130	72	248	194	589	282	207	474	344	142
AC-FT	4,200	11,510	49,430	149,700	78,800	109,400	154,300	32,030	24,460	33,540	27,170	14,160

CAL YR 1966 TOTAL 226,210.3 MEAN 620 MAX 11,600 MIN 7.2 AC-FT 448,700
WTR YR 1967 TOTAL 347,209.3 MEAN 951 MAX 17,800 MIN 7.2 AC-FT 688,700

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	108	59	34	49	1,780	596	291	559	558	520	460	366
2	107	58	37	49	4,840	1,130	333	553	514	505	460	351
3	108	58	58	45	4,380	1,100	274	522	511	520	461	348
4	86	59	133	40	3,500	956	250	511	548	499	458	356
5	81	60	400	37	1,240	606	237	489	564	481	430	388
6	79	60	410	34	1,100	568	225	484	558	474	405	362
7	77	63	323	34	999	349	211	507	549	477	395	347
8	76	66	391	34	854	371	200	567	524	505	401	307
9	77	54	162	39	734	326	191	544	493	544	432	276
10	66	44	109	1,360	663	272	183	512	481	543	424	265
11	60	39	84	541	578	265	176	508	494	557	394	247
12	59	32	73	257	514	390	224	500	490	566	414	225
13	58	32	66	194	458	2,080	297	470	482	621	438	212
14	56	45	60	1,220	421	2,550	294	459	456	598	410	211
15	57	47	46	3,220	379	2,440	290	379	470	569	363	207
16	57	42	47	1,120	528	3,560	318	423	475	560	361	190
17	57	41	48	694	2,370	2,910	317	455	491	528	356	190
18	57	39	67	470	1,290	2,680	385	487	519	495	330	186
19	58	38	120	356	2,040	2,820	428	472	579	479	330	186
20	59	37	95	288	5,030	3,230	422	465	577	478	339	149
21	59	33	72	245	5,010	2,970	387	433	571	460	332	145
22	59	19	62	212	4,280	2,560	385	457	558	455	276	144
23	59	15	59	184	3,990	1,500	451	513	518	438	223	144
24	59	14	56	166	3,720	1,450	490	521	483	413	217	144
25	60	14	51	155	3,500	1,430	483	488	485	428	244	156
26	59	13	55	145	3,320	1,400	486	469	494	443	272	182
27	59	13	60	138	2,450	1,310	549	507	467	418	294	184
28	59	13	58	135	648	374	551	589	498	431	293	155
29	60	19	55	8,970	561	321	527	604	506	432	274	144
30	59	27	52	5,740	------	298	544	583	497	415	295	142
31	59	------	49	1,590	------	280	------	568	------	461	327	------
TOTAL	2,094	1,153	3,392	27,761	61,177	43,092	10,399	15,598	15,410	15,313	11,108	6,909
MEAN	67.5	38.4	109	896	2,110	1,390	347	503	514	494	358	230
MAX	108	66	410	8,970	5,030	3,560	551	604	579	621	461	388
MIN	56	13	34	34	379	265	176	379	456	413	217	142
AC-FT	4,150	2,290	6,730	55,060	121,300	85,470	20,630	30,940	30,570	30,370	22,030	13,700

CAL YR 1967 TOTAL 321,005 MEAN 879 MAX 17,800 MIN 13 AC-FT 636,700
WTR YR 1968 TOTAL 213,406 MEAN 583 MAX 8,970 MIN 13 AC-FT 423,300

11451760 CACHE CREEK ABOVE RUMSEY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	126	13	25	359	3,710	7,060	507	463	484	497	412	311
2	121	15	25	327	3,920	6,260	500	456	505	498	407	327
3	118	21	25	311	3,580	5,980	554	454	535	535	378	348
4	117	22	24	312	3,530	5,400	467	479	554	542	357	346
5	106	18	24	348	4,900	5,080	558	468	587	525	374	345
6	103	16	24	341	7,440	4,940	951	486	597	491	395	342
7	99	15	23	313	4,840	4,650	909	488	590	497	472	307
8	83	14	25	283	4,330	4,380	866	512	571	568	485	280
9	76	13	29	255	7,370	4,260	1,030	531	536	608	465	249
10	74	13	276	236	6,270	4,470	1,350	539	531	594	450	250
11	74	14	677	240	8,830	4,050	1,330	542	466	573	430	273
12	78	15	249	2,360	8,090	3,890	1,310	573	418	557	403	273
13	75	16	152	9,180	6,090	3,690	1,050	643	414	542	416	270
14	67	19	500	3,290	6,560	3,570	364	616	414	522	412	269
15	56	29	2,140	1,560	10,500	3,470	340	590	454	549	376	256
16	51	35	1,110	1,080	7,320	3,390	318	548	480	581	357	262
17	49	35	434	830	6,050	3,080	304	513	515	567	329	258
18	49	38	272	1,110	5,740	1,010	298	507	520	583	337	242
19	48	39	203	4,850	5,390	933	289	500	556	608	390	234
20	48	39	164	8,150	4,990	892	278	489	555	538	457	230
21	49	37	137	15,600	4,640	923	270	495	555	512	459	226
22	51	32	120	8,380	4,400	827	261	507	554	519	461	199
23	45	28	130	6,010	4,840	778	319	529	537	521	468	173
24	39	26	1,410	5,300	5,880	746	374	551	500	534	446	170
25	39	27	2,960	5,670	5,720	724	308	546	508	505	428	168
26	39	25	1,470	9,650	4,970	698	280	534	489	514	428	156
27	38	24	742	5,780	5,020	682	262	485	476	496	447	140
28	37	23	731	5,250	9,020	677	248	480	502	465	442	138
29	34	23	630	4,500	------	830	382	448	470	458	402	134
30	19	23	500	4,360	------	562	452	441	473	451	365	139
31	15	------	416	4,030	------	530	------	448	------	436	336	------
TOTAL	2,023	707	15,647	110,265	163,940	88,432	16,729	15,861	15,346	16,386	12,784	7,315
MEAN	65.3	23.6	505	3,557	5,855	2,853	558	512	512	529	412	244
MAX	126	39	2,960	15,600	10,500	7,060	1,350	643	597	608	485	348
MIN	15	13	23	236	3,530	530	248	441	414	436	329	134
AC-FT	4,010	1,400	31,040	218,700	325,200	175,400	33,180	31,460	30,440	32,500	25,360	14,510

CAL YR 1968 TOTAL 225,144 MEAN 615 MAX 8,970 MIN 13 AC-FT 446,600
WTR YR 1969 TOTAL 465,435 MEAN 1,275 MAX 15,600 MIN 13 AC-FT 923,200

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136	4.5	14	254	5,730	2,670	325	413	489	450	489	347
2	134	4.5	14	224	5,330	2,120	321	459	456	479	450	344
3	132	4.3	14	202	5,130	2,000	310	489	470	512	437	331
4	116	4.4	15	187	4,930	2,760	304	485	510	529	429	350
5	113	5.8	16	170	4,700	3,580	299	474	570	537	392	332
6	112	7.3	16	156	4,460	3,000	293	465	565	509	422	288
7	99	7.5	16	147	4,270	2,820	289	419	547	540	464	248
8	95	6.5	18	229	4,100	1,420	349	423	524	551	481	271
9	95	5.3	21	6,600	3,990	1,410	357	397	503	546	474	295
10	79	4.9	27	3,770	3,870	1,420	387	354	439	541	458	316
11	70	4.6	40	1,360	3,770	1,350	389	351	399	520	469	314
12	69	4.4	230	1,100	3,860	1,310	388	423	374	510	452	280
13	68	5.0	769	2,340	7,430	1,280	430	476	348	493	459	254
14	62	5.8	255	11,300	5,320	1,240	440	470	350	502	418	252
15	69	6.2	156	6,500	4,520	1,210	386	456	381	497	403	291
16	57	6.9	116	14,000	4,900	1,190	357	490	436	495	399	278
17	42	6.9	91	8,370	5,590	1,160	339	513	452	493	399	274
18	38	7.7	85	6,040	4,670	1,130	341	509	451	492	395	225
19	34	8.1	1,710	5,150	4,370	1,110	343	491	472	488	372	224
20	32	8.3	2,090	5,130	4,190	1,100	371	522	466	473	415	177
21	29	8.8	2,660	12,600	3,980	1,080	392	496	452	474	453	171
22	24	9.3	1,240	9,430	3,730	1,090	444	478	451	471	417	167
23	24	10	2,460	15,400	3,580	1,090	442	476	483	478	366	167
24	23	11	5,510	23,600	3,460	921	440	486	495	523	324	181
25	22	11	1,390	11,400	3,360	416	472	481	497	515	321	180
26	12	12	895	8,850	3,270	391	483	456	506	481	320	166
27	7.2	12	636	11,000	2,660	374	477	455	500	487	341	165
28	6.2	12	490	8,170	1,860	362	418	452	459	487	338	165
29	5.3	13	400	7,170	------	356	407	430	449	488	337	163
30	4.9	13	337	6,620	------	352	400	465	427	503	346	163
31	4.6	------	288	6,120	------	337	------	448	------	502	347	------
TOTAL	1,814.2	231.0	22,019	193,589	121,030	42,049	11,393	14,202	13,921	15,566	12,587	7,379
MEAN	58.5	7.70	710	6,245	4,323	1,356	380	458	464	502	406	246
MAX	136	13	5,510	23,600	7,430	3,580	483	522	570	551	489	350
MIN	4.6	4.3	14	147	1,860	337	289	351	348	450	320	163
AC-FT	3,600	458	43,670	384,000	240,100	83,400	22,600	28,170	27,610	30,880	24,970	14,640

CAL YR 1969 TOTAL 471,122.2 MEAN 1,291 MAX 15,600 MIN 4.3 AC-FT 934,500
WTR YR 1970 TOTAL 455,780.2 MEAN 1,249 MAX 23,600 MIN 4.3 AC-FT 904,000

11452000 CACHE CREEK NEAR CAPAY, CALIF.

LOCATION.--Lat 38°43'44", long 122°06'15", in Canada de Capay Grant, Yolo County, on right bank 1.8 miles upstream from Clear Lake Water Co.'s diversion dam, 3.2 miles northwest of Capay, and 5.4 miles northwest of Esparto.

DRAINAGE AREA.--1,044 sq mi.

PERIOD OF RECORD.--May 1942 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 225 ft (from river-profile map).

AVERAGE DISCHARGE.--28 years, 657 cfs (476,000 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 5, 1966	17,700	14.57	Nov. 7, 1965	8.2
1967	Jan. 21, 1967	28,800	16.92	Nov. 14, 1966	11
1968	Jan. 30, 1968	17,500	14.66	Nov. 28, 1967	19
1969	Jan. 21, 1969	17,600	14.35	Nov. 13, 1968	12
1970	Jan. 24, 1970	36,200	18.39	Nov. 4, 1969	13

Period of record: Maximum discharge, 51,600 cfs Feb. 24, 1958 (gage height, 20.90 ft), from rating curve extended above 30,000 cfs; minimum, 2.2 cfs Sept. 11, 12, 16, 1947.

REMARKS.--Records good. Beginning in 1915, flow partly regulated by Clear Lake (see station 11450000). About 3,700 acre-ft diverted annually between stations above Rumsey and near Capay for irrigation of approximately 900 acres, from data furnished by U.S. Soil Conservation Service. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

REVISIONS (WATER YEARS).--WSP 1395: 1943. WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	16	144	677	824	1,380	157	520	435	493	364	310
2	79	14	129	487	922	1,370	163	539	424	483	354	274
3	77	12	114	413	898	1,350	177	598	419	473	344	240
4	71	11	106	3,510	6,330	520	181	630	415	463	341	221
5	69	9.4	99	12,300	4,810	369	180	642	409	453	350	212
6	69	8.8	92	4,820	4,070	353	183	639	444	443	361	220
7	69	8.2	88	2,890	3,650	341	202	624	447	495	361	254
8	65	10	85	2,770	3,390	329	233	619	403	511	361	302
9	67	10	81	3,410	3,200	315	252	582	353	500	391	289
10	67	10	77	3,110	3,070	330	242	521	370	482	390	240
11	67	13	77	2,920	2,890	380	229	502	429	475	392	225
12	67	12	81	2,790	863	370	292	477	441	472	376	213
13	67	17	92	1,790	538	330	296	510	442	469	369	196
14	67	124	88	1,700	482	320	253	487	466	463	371	197
15	65	413	79	1,590	444	600	245	453	457	463	359	197
16	63	354	73	628	411	1,250	247	444	467	460	365	191
17	61	173	69	458	387	1,350	252	458	466	446	375	186
18	53	493	67	411	370	2,500	276	456	480	434	379	185
19	51	643	63	377	474	2,900	296	479	507	416	385	185
20	51	352	61	344	564	2,800	336	501	527	436	381	182
21	49	189	61	320	421	1,500	365	494	534	426	365	176
22	54	131	60	302	383	850	385	460	550	447	347	159
23	54	105	58	289	385	400	403	435	510	452	366	152
24	53	141	63	273	385	300	421	484	484	451	363	140
25	53	667	707	258	407	250	423	526	444	425	346	138
26	53	385	410	243	1,210	220	469	541	416	412	356	136
27	49	258	243	234	1,370	200	488	542	394	408	343	127
28	42	246	710	222	1,370	190	497	512	396	411	304	112
29	35	196	2,460	222	------	180	470	477	421	401	288	109
30	27	164	1,180	1,140	------	170	460	490	471	395	299	117
31	20	------	913	781	------	160	------	476	------	393	326	------
TOTAL	1,815	5,185.4	8,630	51,679	44,518	23,877	9,073	16,118	13,421	13,951	11,072	5,885
MEAN	58.5	173	278	1,667	1,590	770	302	520	447	450	357	196
MAX	81	667	2,460	12,300	6,330	2,900	497	642	550	511	392	310
MIN	20	8.2	58	222	370	160	157	435	353	393	288	109
AC-FT	3,600	10,290	17,120	102,500	88,300	47,360	18,000	31,970	26,620	27,670	21,960	11,670

CAL YR 1965 TOTAL 311,364.4 MEAN 853 MAX 20,100 MIN 8.2 AC-FT 617,600
WTR YR 1966 TOTAL 205,224.4 MEAN 562 MAX 12,300 MIN 8.2 AC-FT 407,100

11452000 CACHE CREEK NEAR CAPAY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	35	228	161	6,660	269	2,340	2,300	453	565	448	328
2	114	35	960	146	5,230	261	2,260	977	484	565	448	321
3	105	36	3,550	138	4,500	250	2,200	797	585	540	419	292
4	90	34	1,750	127	4,040	241	2,200	736	411	520	448	303
5	84	30	7,400	122	3,690	231	2,250	702	332	507	462	286
6	81	30	3,270	114	3,450	221	2,930	660	355	498	431	289
7	81	26	1,880	106	3,280	210	4,110	615	286	494	415	303
8	81	20	1,250	101	1,770	201	3,870	580	253	502	395	282
9	80	18	924	94	1,070	194	3,740	545	242	498	391	256
10	79	16	876	92	974	193	3,730	540	250	476	399	228
11	79	15	828	88	900	551	3,600	516	253	444	363	212
12	80	13	692	83	846	708	1,110	480	263	427	351	204
13	77	12	620	79	804	1,000	797	444	286	423	347	202
14	71	11	590	75	752	3,120	702	419	289	435	344	200
15	68	12	530	71	714	2,960	675	395	276	440	355	200
16	62	15	480	67	692	7,360	675	379	266	462	344	197
17	57	18	439	65	665	5,360	1,060	363	286	458	325	197
18	56	47	398	60	545	4,390	4,180	340	355	453	328	200
19	51	43	369	58	448	4,020	4,090	321	419	498	375	195
20	45	1,670	345	58	412	3,800	3,800	415	458	530	399	192
21	42	1,110	325	14,800	381	3,770	4,250	453	471	512	403	183
22	40	747	301	8,030	361	3,590	4,290	489	471	494	403	176
23	39	462	281	2,610	341	3,520	4,130	530	462	440	407	179
24	39	297	265	3,440	329	3,450	4,990	555	458	411	403	179
25	36	218	250	2,870	329	1,280	4,440	555	489	431	383	174
26	36	174	235	2,480	317	881	4,010	545	530	453	332	166
27	36	146	221	4,350	293	803	3,160	535	570	458	300	159
28	36	146	204	5,880	277	758	2,800	507	570	453	317	157
29	36	289	193	11,400	------	736	2,660	453	560	448	328	153
30	35	313	183	9,290	------	809	2,510	435	565	448	321	151
31	34	------	174	8,730	------	2,010	------	423	------	448	325	------
TOTAL	1,969	6,038	30,011	75,785	44,070	57,147	87,559	18,004	11,948	14,731	11,709	6,564
MEAN	63.5	201	968	2,445	1,574	1,843	2,919	581	398	475	378	219
MAX	119	1,670	7,400	14,800	6,660	7,360	4,990	2,300	585	565	462	328
MIN	34	11	174	58	277	193	675	321	242	411	300	151
AC-FT	3,910	11,980	59,530	150,300	87,410	113,400	173,700	35,710	23,700	29,220	23,220	13,020

CAL YR 1966 TOTAL 227,612 MEAN 624 MAX 12,300 MIN 11 AC-FT 451,500
WTR YR 1967 TOTAL 365,535 MEAN 1,001 MAX 14,800 MIN 11 AC-FT 725,000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	144	58	27	45	1,340	599	315	499	534	489	425	306
2	129	58	36	46	4,260	1,030	339	505	504	480	424	308
3	120	57	45	43	4,330	1,070	316	488	492	489	424	303
4	117	57	190	41	3,560	1,020	296	480	513	480	424	303
5	109	57	303	38	1,540	653	284	463	536	464	407	314
6	103	57	309	37	995	617	271	454	535	456	385	303
7	98	57	175	36	889	495	262	463	526	453	373	300
8	95	62	268	36	758	457	253	509	510	466	367	276
9	92	64	154	36	646	438	246	510	486	498	384	244
10	91	50	109	935	572	404	241	487	470	501	391	222
11	88	41	87	688	509	380	234	476	472	512	372	210
12	85	38	75	267	455	404	243	478	474	517	375	197
13	82	34	60	171	416	1,760	279	457	465	562	399	186
14	79	35	54	226	386	2,580	298	457	447	561	391	183
15	76	41	50	3,600	353	2,530	294	405	444	539	361	183
16	75	42	47	1,340	345	3,810	307	402	454	531	348	170
17	72	40	47	793	1,980	3,440	311	422	464	505	346	166
18	71	39	51	534	1,370	2,890	340	450	473	477	326	166
19	69	38	74	408	1,410	2,640	376	454	514	460	320	161
20	68	36	89	318	5,390	3,490	387	452	527	454	322	151
21	67	35	71	259	5,760	3,110	369	429	528	442	315	129
22	64	33	60	213	4,960	2,920	361	433	526	438	296	127
23	64	27	54	182	4,430	1,580	392	472	498	426	269	127
24	63	24	51	159	4,110	1,460	431	496	461	408	249	124
25	62	21	48	144	3,870	1,390	431	479	454	407	253	127
26	60	20	46	134	3,690	1,340	431	454	467	419	265	136
27	60	20	52	126	3,180	1,300	472	465	444	405	273	147
28	59	19	54	120	847	603	488	527	464	409	277	140
29	59	21	52	4,940	663	374	477	556	485	411	264	124
30	58	25	49	8,650	------	345	485	548	474	394	263	122
31	58	------	47	1,960	------	324	------	537	------	416	280	------
TOTAL	2,537	1,206	2,834	26,525	63,014	45,453	10,229	14,707	14,641	14,469	10,568	5,955
MEAN	81.8	40.2	91.4	856	2,173	1,466	341	474	488	467	341	199
MAX	144	64	309	8,650	5,760	3,810	488	556	536	562	425	314
MIN	58	19	27	36	345	324	234	402	444	394	249	122
AC-FT	5,030	2,390	5,620	52,610	125,000	90,160	20,290	29,170	29,040	28,700	20,960	11,810

CAL YR 1967 TOTAL 334,094 MEAN 915 MAX 14,800 MIN 19 AC-FT 662,700
WTR YR 1968 TOTAL 212,138 MEAN 580 MAX 8,650 MIN 19 AC-FT 420,800

11452000 CACHE CREEK NEAR CAPAY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	23	21	387	4,060	7,590	512	457	446	476	428	309
2	100	23	21	349	3,860	6,460	493	450	464	480	418	303
3	95	24	22	327	3,720	6,270	546	446	492	506	397	318
4	98	21	23	315	3,540	5,710	473	472	508	523	365	323
5	95	23	23	332	4,090	5,380	485	464	540	512	370	323
6	91	21	23	339	7,510	5,190	851	476	560	483	383	320
7	86	19	23	316	5,380	4,960	881	480	556	473	434	303
8	82	17	24	290	4,590	4,670	827	500	552	524	469	279
9	71	16	26	266	6,500	4,480	863	516	524	575	459	253
10	67	15	48	240	6,850	4,630	1,350	528	524	575	442	235
11	67	15	712	228	7,980	4,350	1,350	524	476	554	426	226
12	73	15	299	1,690	9,140	4,150	1,330	544	425	540	399	222
13	73	12	171	8,670	7,110	3,990	1,270	615	408	523	401	221
14	71	16	341	5,190	6,470	3,790	524	605	397	499	403	223
15	64	26	1,560	2,400	11,200	3,620	443	580	422	512	377	216
16	56	27	1,910	1,560	8,490	3,470	411	544	446	544	355	216
17	54	32	590	1,150	7,100	3,340	390	508	480	538	334	220
18	51	36	360	1,190	6,530	1,500	373	492	488	543	324	214
19	51	37	271	5,090	6,000	1,040	362	492	524	577	350	206
20	50	37	210	7,810	5,530	945	349	480	532	534	407	203
21	50	37	175	14,100	5,160	966	340	476	528	501	423	202
22	50	35	152	8,930	4,810	875	328	480	528	506	425	184
23	48	31	141	5,770	5,090	802	340	496	520	502	434	155
24	44	28	897	4,640	5,930	757	408	516	492	524	423	151
25	39	26	3,020	4,470	6,140	732	369	516	492	507	403	147
26	38	23	2,150	8,670	5,470	707	340	520	484	512	394	143
27	37	20	888	6,380	5,050	689	322	476	464	506	413	132
28	35	21	740	5,360	8,260	675	310	460	488	479	417	128
29	37	21	674	4,840	------	775	340	439	472	464	393	124
30	35	21	544	4,560	------	651	432	425	460	459	360	121
31	28	------	450	4,250	------	536	------	422	------	450	335	------
TOTAL	1,951	718	16,509	110,109	171,560	93,700	17,612	15,399	14,692	15,901	12,361	6,620
MEAN	62.9	23.9	533	3,552	6,127	3,023	587	497	490	513	399	221
MAX	115	37	3,020	14,100	11,200	7,590	1,350	615	560	577	469	323
MIN	28	12	21	228	3,540	536	310	422	397	450	324	121
AC-FT	3,870	1,420	32,750	218,400	340,300	185,900	34,930	30,540	29,140	31,540	24,520	13,130

CAL YR 1968 TOTAL 224,739 MEAN 614 MAX 8,650 MIN 12 AC-FT 445,800
WTR YR 1969 TOTAL 477,132 MEAN 1,307 MAX 14,100 MIN 12 AC-FT 946,400

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	125	15	18	311	6,110	3,040	310	417	488	418	462	330
2	122	14	18	272	5,710	2,540	306	444	480	425	435	329
3	126	14	18	242	5,330	2,300	295	472	472	456	414	320
4	122	13	18	221	5,040	3,180	293	476	496	483	408	325
5	115	15	18	204	4,750	4,070	289	472	548	497	384	319
6	113	15	17	187	4,460	3,540	287	468	560	479	386	295
7	110	16	17	175	4,210	3,390	285	446	548	488	416	268
8	100	16	18	180	4,010	1,590	298	436	532	505	433	261
9	98	15	18	4,270	3,890	1,540	324	425	524	506	435	274
10	94	14	20	6,100	3,810	1,510	333	394	468	504	424	286
11	82	14	25	1,870	3,730	1,400	342	380	428	489	427	290
12	77	14	35	1,410	3,720	1,320	344	414	400	484	420	273
13	76	14	628	2,330	6,830	1,250	359	464	376	463	425	255
14	75	14	313	10,000	6,220	1,210	380	476	369	464	402	247
15	79	14	157	7,640	5,030	1,160	360	464	383	468	385	255
16	81	14	111	13,600	4,800	1,120	346	484	411	466	380	259
17	66	15	81	9,610	6,190	1,080	346	508	436	464	378	252
18	56	15	68	7,390	5,270	1,050	345	516	439	459	376	236
19	50	15	626	6,000	4,860	1,020	348	504	450	457	360	215
20	46	16	2,610	5,600	4,610	1,000	361	532	446	443	371	201
21	43	16	2,580	11,400	4,420	976	380	524	436	442	406	175
22	40	15	1,900	10,500	4,210	964	412	504	428	440	398	163
23	35	16	994	10,300	4,020	962	428	496	442	441	366	160
24	33	16	7,610	25,000	3,900	929	428	496	460	473	335	157
25	32	17	2,150	11,200	3,790	484	444	500	460	481	322	159
26	31	17	1,210	8,810	3,690	397	465	480	464	452	320	156
27	27	18	835	9,960	3,430	367	472	476	464	448	330	150
28	22	18	634	8,470	2,190	347	439	480	442	450	330	148
29	18	18	509	7,610	------	338	421	460	432	450	327	145
30	17	18	428	6,980	------	325	417	472	414	461	330	142
31	16	------	360	6,510	------	319	------	460	------	465	331	------
TOTAL	2,127	461	24,044	194,352	128,230	44,718	10,857	14,540	13,696	14,421	11,916	7,045
MEAN	68.6	15.4	776	6,269	4,580	1,443	362	469	457	465	384	235
MAX	126	18	7,610	25,000	6,830	4,070	472	532	560	506	462	330
MIN	16	13	17	175	2,190	319	285	380	369	418	320	142
AC-FT	4,220	914	47,690	385,500	254,300	88,700	21,530	28,840	27,170	28,600	23,640	13,970

CAL YR 1969 TOTAL 484,586 MEAN 1,328 MAX 14,100 MIN 13 AC-FT 961,200
WTR YR 1970 TOTAL 466,407 MEAN 1,278 MAX 25,000 MIN 13 AC-FT 925,100

11452500 CACHE CREEK AT YOLO, CALIF.

LOCATION.--Lat 38°43'31", long 121°48'22", in Rio Jesus Maria Grant, Yolo County, on left bank 800 ft upstream from highway bridge, 0.5 mile south of Yolo, and 7.3 miles downstream from Moore Dam.

DRAINAGE AREA.--1,139 sq mi.

PERIOD OF RECORD.--January 1903 to September 1970. Records for water year 1903 incomplete, yearly estimate published in WSP 1315-A.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (revised). Prior to summer of 1930, nonrecording gage at datum 58.24 ft higher. Summer of 1930 to June 11, 1954, water-stage recorder at datum 56.27 ft higher, June 11, 1954, to July 16, 1965, at datum 52.27 ft higher, and July 17, 1965, to Apr. 24, 1969, at datum 50.27 ft higher.

AVERAGE DISCHARGE.--68 years (1902-70), 524 cfs (379,600 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, elevation in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	Elevation	Date	Discharge
1966	Jan. 5, 1966	18,400	25.44	Long periods	0
1967	Jan. 22, 1967	26,900	29.95	do.	0
1968	Jan. 30, 1968	16,800	24.25	do.	0
1969	Jan. 21, 1969	15,900	22.36	do.	0
1970	Jan. 24, 1970	34,600	80.36	do.	0

Period of record: Maximum discharge, 41,400 cfs Feb. 25, 1958 (elevation, 85.35 ft, present datum); maximum elevation observed, 88.44 ft (present datum) Mar. 10, 1904; no flow at times in each year.

REMARKS.--Records good except those for summer months in water year 1970 and those for period of no gage-height record Apr. 4 to Sept. 6, 1968, which are poor. Beginning in 1915, flow regulated by Clear Lake (see station *11450000). Diversions for irrigating up to about 30,000 acres between stations near Capay and at Yolo,* from data furnished by Clear Lake Water Co.

REVISIONS (WATER YEARS).--WSP 1315-A: 1914(M). WSP 1345: 1906. WSP 1445: 1955. WSP 1931: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	75	639	593	1,260	20					
2		0	55	436	885	1,250	5.1					
3		0	37	335	668	1,240	.20					
4		0	21	1,310	5,190	760	0					
5		0	0	13,600	5,010	345	0					
6		0	1.6	5,390	4,100	295	0					
7		0	.40	2,810	3,660	273	0					
8		0	0	2,510	3,350	256	0					
9		0	0	3,010	3,150	246	0					
10		0	0	2,880	3,020	258	0					
11		0	0	2,690	2,860	349	0					
12		0	0	2,540	1,460	335	0					
13		0	0	1,800	602	303	0					
14		0	0	1,510	483	290	0					
15		0	0	1,430	419	515	0					
16		0	0	830	370	1,130	0					
17		29	0	434	330	1,170	0					
18		107	0	365	291	2,240	0					
19		440	0	324	298	2,550	0					
20		302	0	269	548	2,520	0					
21		138	0	232	399	1,150	0					
22		68	0	212	328	752	0					
23		36	0	196	307	300	0					
24		28	0	180	313	228	0					
25		330	61	160	343	186	0					
26		340	417	155	803	158	0					
27		195	219	138	1,240	143	0					
28		160	180	120	1,270	128	0					
29		120	2,140	115	------	118	0					
30		100	1,160	599	------	103	0					
31		------	801	822	------	51	------		------			------
TOTAL	0	2,393	5,168.00	48,041	42,290	20,902	25.30	0	0	0	0	0
MEAN	0	79.8	167	1,550	1,510	674	.84	0	0	0	0	0
MAX	0	440	2,140	13,600	5,190	2,550	20	0	0	0	0	0
MIN	0	0	0	115	291	51	0	0	0	0	0	0
AC-FT	0	4,750	10,250	95,290	83,880	41,460	50	0	0	0	0	0

CAL YR 1965 TOTAL 235,104.00 MEAN 644 MAX 24,600 MIN 0 AC-FT 466,300
WTR YR 1966 TOTAL 118,819.30 MEAN 326 MAX 13,600 MIN 0 AC-FT 235,700

11452500 CACHE CREEK AT YOLO, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	124	66	6,630	190	2,340	2,350	0			
2		0	122	62	5,360	190	2,270	1,310	7.4			
3		0	3,460	59	4,630	190	2,210	867	85			
4		0	1,170	55	4,200	185	2,210	765	112			
5		0	7,030	51	3,890	185	2,220	706	64			
6		0	3,450	47	3,600	187	2,710	650	33			
7		0	1,840	44	3,370	176	3,950	569	32			
8		0	1,160	41	2,280	169	3,730	530	11			
9		0	800	38	1,110	164	3,550	484	0			
10		0	666	36	977	160	3,450	432	0			
11		0	674	35	864	344	3,660	406	0			
12		0	538	33	782	526	1,670	368	0			
13		0	450	31	729	1,000	939	334	0			
14		0	395	28	682	2,500	800	304	0			
15		0	364	26	647	2,970	748	284	0			
16		0	290	24	618	6,780	729	247	0			
17		0	224	22	593	5,700	712	55	0			
18		0	197	20	521	4,440	3,650	0	0			
19		0	167	18	394	4,090	4,110	0	0			
20		498	146	24	331	3,850	3,750	0	0			
21		1,120	130	9,270	298	3,860	4,010	0	0			
22		642	115	13,600	275	3,730	4,510	0	0			
23		428	101	3,140	260	3,660	3,970	0	0			
24		208	88	4,280	239	3,600	5,050	0	0			
25		106	79	4,020	230	2,040	4,410	0	0			
26		57	65	2,300	222	1,040	3,990	0	0			
27		28	57	5,340	210	923	3,090	0	0			
28		21	83	6,500	200	844	2,710	0	0			
29		59	83	11,600	------	808	2,560	0	0			
30		161	76	10,600	------	842	2,440	0	0			
31		------	70	9,740	------	1,770	------	0	------			------
TOTAL	0	3,328	24,214	81,150	44,142	57,113	86,148	10,661	344.4	0	0	0
MEAN	0	111	781	2,618	1,577	1,842	2,872	344	11.5	0	0	0
MAX	0	1,120	7,030	13,600	6,630	6,780	5,050	2,350	112	0	0	0
MIN	0	0	57	18	200	160	712	0	0	0	0	0
AC-FT	0	6,600	48,030	161,000	87,560	113,300	170,900	21,150	683	0	0	0

CAL YR 1966 TOTAL 138,800.30 MEAN 380 MAX 13,600 MIN 0 AC-FT 275,300
WTR YR 1967 TOTAL 307,100.40 MEAN 841 MAX 13,600 MIN 0 AC-FT 609,100

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	0	1,200	554	163		0		0	0
2			0	0	3,660	770	164		0		0	0
3			0	0	4,560	1,000	168		0		0	0
4			0	0	3,660	975	88		0		0	0
5			0	0	2,080	731	53		0		0	0
6			0	0	1,090	543	40		0		0	.45
7			37	0	955	465	31		0		0	0
8			109	0	820	364	25		0		0	0
9			125	0	702	342	21		0		0	0
10			60	72	603	309	16		0		0	.49
11			32	939	537	284	10		0		0	.88
12			16	306	467	283	6.0		0		0	1.1
13			10	171	419	1,150	3.5		0		0	1.2
14			26	133	378	2,180	0		0		0	.10
15			11	2,600	350	2,330	0		0		0	0
16			6.6	1,550	335	3,160	0		0		0	.82
17			3.7	820	1,270	3,440	0		0		0	1.2
18			1.8	538	1,640	2,730	0		0		0	1.2
19			.61	387	1,090	2,490	0		0		0	1.0
20			.12	297	4,180	3,090	0		0		.63	1.1
21			0	240	5,450	2,860	0		0		0	.08
22			0	201	4,770	2,750	0		0		0	0
23			0	169	4,180	1,730	0		0		0	.88
24			0	143	3,840	1,350	0		0		0	1.1
25			0	124	3,590	1,280	0		0		0	.16
26			0	111	3,370	1,230	0		0		0	0
27			0	98	3,200	1,210	0		9.8		0	0
28			0	87	1,240	823	0		1.6		0	0
29			0	2,010	662	326	0		0		0	0
30			0	11,100	------	223	0		0		0	0
31		------	0	2,400	------	184	------		------		0	------
TOTAL	0	0	438.83	24,496	60,298	41,156	788.5	0	11.4	0	.63	11.76
MEAN	0	0	14.2	790	2,079	1,328	26.3	0	.38	0	.020	.39
MAX	0	0	125	11,100	5,450	3,440	168	0	9.8	0	.63	1.2
MIN	0	0	0	0	335	184	0	0	0	0	0	0
AC-FT	0	0	870	48,590	119,600	81,630	1,560	0	23	0	1.2	23

CAL YR 1967 TOTAL 279,997.23 MEAN 767 MAX 13,600 MIN 0 AC-FT 555,400
WTR YR 1968 TOTAL 127,201.12 MEAN 348 MAX 11,100 MIN 0 AC-FT 252,300

11452500 CACHE CREEK AT YOLO, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	338	4,150	8,330	540					
2	0	0	0	289	3,920	6,260	480					
3	0	0	0	262	3,840	6,180	510					
4	0	0	0	244	3,640	5,560	480					
5	0	0	0	243	3,960	5,190	470					
6	0	0	0	266	8,090	4,980	658					
7	0	0	0	253	5,620	4,780	859					
8	0	0	0	233	4,560	4,520	839					
9	0	0	0	211	5,830	4,300	811					
10	0	0	0	193	7,220	4,400	1,160					
11	0	0	0	182	7,220	4,250	1,290					
12	0	0	226	880	10,200	4,010	1,250					
13	0	.50	120	6,710	7,000	3,860	1,230					
14	0	1.1	106	6,440	5,980	3,680	730					
15	0	2.2	607	2,140	11,500	3,550	342					
16	0	.28	2,240	1,270	9,530	3,410	200					
17	.35	0	620	876	7,080	3,340	115					
18	.70	.28	302	710	6,510	2,140	70					
19	0	.90	201	4,330	5,940	1,320	55					
20	0	.90	153	7,490	5,450	1,170	51					
21	.70	.80	115	13,100	5,140	1,120	49					
22	.90	0	86	11,700	4,820	1,040	48					
23	.80	0	67	6,440	5,030	932	47					
24	.42	0	199	5,130	6,060	867	48					
25	0	.63	2,430	4,940	6,570	825	50					
26	0	.21	2,590	9,870	5,630	793	46					
27	0	0	1,060	7,160	5,060	748	35					
28	0	0	690	5,560	7,740	678	17					
29	0	0	682	4,890	------	653	0					
30	0	0	531	4,660	------	792	0					
31	0	------	415	4,340	------	600	------		------			------
TOTAL	3.87	7.80	13,440	111,350	173,290	94,278	12,480	0	0	0	0	0
MEAN	.12	.26	434	3,592	6,189	3,041	416	0	0	0	0	0
MAX	.90	2.2	2,590	13,100	11,500	8,330	1,290	0	0	0	0	0
MIN	0	0	0	182	3,640	600	0	0	0	0	0	0
AC-FT	7.7	15	26,660	220,900	343,700	187,000	24,750	0	0	0	0	0

CAL YR 1968 TOTAL 140,213.96 MEAN 383 MAX 11,100 MIN 0 AC-FT 278,100
WTR YR 1969 TOTAL 404,849.67 MEAN 1,109 MAX 13,100 MIN 0 AC-FT 803,000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	239	5,960	2,960	188	3.2	0	0	0	8.5
2			0	197	5,650	2,740	161	1.9	0	0	0	14
3			0	166	5,350	2,450	142	0	.50	0	0	15
4			0	144	5,090	2,720	111	0	.50	0	2.2	16
5			0	126	4,840	4,410	90	0	.50	6.0	4.6	11
6			0	112	4,600	3,510	64	0	2.6	6.5	5.7	13
7			0	98	4,400	3,480	48	0	4.4	15	7.1	11
8			0	98	4,280	1,700	35	0	9.0	6.5	8.2	12
9			0	1,360	4,140	1,550	28	0	11	5.7	8.5	8.2
10			0	8,070	4,040	1,440	32	0	3.2	5.3	9.4	.71
11			0	1,960	3,960	1,300	28	0	0	4.6	12	.03
12			0	1,380	3,950	1,280	22	0	0	4.4	13	.24
13			0	1,710	5,980	1,200	7.1	0	0	4.0	18	13
14			57	8,090	6,650	1,150	7.4	0	0	3.8	18	14
15			136	9,220	4,700	1,110	25	0	0	3.4	18	11
16			55	12,900	4,380	1,090	13	0	0	3.3	9.4	12
17			26	10,600	5,890	1,050	2.2	0	0	3.2	13	8.5
18			4.0	6,510	4,940	1,010	0	0	0	2.8	4.6	8.2
19			0	4,720	4,530	990	0	0	0	2.7	3.3	5.5
20			1,950	4,520	4,270	970	0	0	4.6	2.4	7.9	3.6
21			2,060	11,000	4,110	950	0	0	14	2.2	4.0	.14
22			2,170	11,700	3,960	930	0	0	13	2.0	9.4	2.6
23			805	8,240	3,740	920	2.7	0	15	1.9	6.8	7.9
24			6,780	25,800	3,660	900	13	0	4.6	0	1.7	11
25			2,290	14,000	3,540	758	11	0	0	0	2.4	9.0
26			1,160	9,470	3,460	401	4.6	0	4.6	0	.90	9.4
27			788	10,400	3,370	325	5.1	0	2.0	0	.84	9.0
28			573	8,910	2,420	273	7.9	0	0	0	.78	4.6
29			437	7,660	------	250	7.4	0	0	0	.71	2.1
30			348	6,950	------	231	8.2	0	0	0	.64	.42
31		------	287	6,380	------	213	------	0	------	0	0	------
TOTAL	0	0	19,926.0	192,730	125,860	44,261	1,063.6	5.1	89.50	85.7	191.07	241.64
MEAN	0	0	643	6,217	4,495	1,428	35.5	.16	2.98	2.76	6.16	8.05
MAX	0	0	6,780	25,800	6,650	4,410	188	3.2	15	15	18	16
MIN	0	0	0	98	2,420	213	0	0	0	0	0	.03
AC-FT	0	0	39,520	382,300	249,600	87,790	2,110	10	178	170	379	479

CAL YR 1969 TOTAL 411,324.00 MEAN 1,127 MAX 13,100 MIN 0 AC-FT 815,900
WTR YR 1970 TOTAL 384,453.61 MEAN 1,053 MAX 25,800 MIN 0 AC-FT 762,600

11453000 YOLO BYPASS NEAR WOODLAND, CALIF.

LOCATION.--Lat 38°40'40", long 121°38'35" (unsurveyed), Yolo County, on left bank 300 ft upstream from Sacramento and Woodland railroad bridge, 6 miles upstream from Sacramento bypass, 6 miles (revised) downstream from Fremont weir, and 7 miles east of Woodland.

PERIOD OF RECORD.--October 1939 to September 1970. Monthly discharge only for some periods, published in WSP 1315-A.

GAGE.--Water-stage recorder. Datum of gage is 3.41 ft below mean sea level. Prior to Dec. 17, 1941, nonrecording gage and Dec. 18-31, 1941, water-stage recorder, at present site at datum 0.73 higher. A supplementary water-stage recorder 6 miles downstream at different datum is used for records of low flow.

AVERAGE DISCHARGE.--31 years, 4,038 cfs (2,926,000 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 5, 1966	11,000	25.53	Long periods	0
1967	Feb. 1, 1967	125,000	28.52	do.	0
1968	Feb. 28, 1968	19,600	24.76	do.	0
1969	Jan. 27, 1969	112,000	28.74	Many days	0
1970	Jan. 25, 1970	228,000	30.90	do.	0

Period of record: Maximum discharge, 272,000 cfs Feb. 8, 1942 (gage height, 32.00 ft); no flow at times in 1939-40, 1963-70.

REMARKS.--Records fair except those for periods of medium and high flows, which are good. Flow is from Cache Creek and Knights Landing Ridge Cut plus floodwater passing over Fremont weir; during summer months, flow consists largely of return water from irrigation. There is some diversion for irrigation between the main and supplementary gages which affects the low-flow record.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	3.0	189	1,260	1,170	1,220	38	6.0	31			0
2	25	3.3	122	1,100	1,300	1,210	35	0	29			3.8
3	26	3.7	83	875	1,610	1,190	25	0	27			22
4	27	3.3	58	694	2,800	1,120	24	0	30			25
5	29	3.3	40	5,910	7,360	626	25	0	42			27
6	30	3.3	27	9,260	7,510	370	30	0	54			27
7	38	3.3	21	6,360	6,700	294	22	0	51			27
8	50	3.7	21	4,920	6,100	254	19	0	34			24
9	54	4.6	29	3,870	5,300	231	20	0	7.2			18
10	52	5.1	31	4,050	4,520	220	17	4.7	2.7			12
11	51	4.6	40	3,670	3,810	233	21	12	3.0			15
12	50	4.6	44	3,360	3,150	280	38	14	3.0			24
13	48	3.7	44	2,970	1,730	279	40	16	1.2			30
14	46	6.1	46	2,260	1,130	257	34	20	2.5			26
15	40	12	54	2,040	852	250	21	21	2.6			40
16	29	9.6	58	1,820	660	615	18	17	.60			58
17	17	22	50	1,230	548	1,020	15	14	.10			44
18	14	418	45	960	448	1,290	22	14	0			52
19	12	673	42	825	438	2,270	21	13	0			45
20	8.4	968	39	742	476	2,440	15	10	0			27
21	7.8	1,100	36	648	548	2,120	12	17	0			25
22	6.6	939	35	586	458	1,150	9.6	14	0			19
23	5.1	545	31	562	404	672	12	5.6	0			16
24	4.1	230	26	526	376	384	12	1.2	0			15
25	3.7	120	29	490	373	269	9.6	1.5	0			16
26	3.7	154	25	466	420	219	11	1.8	0			16
27	3.7	252	138	442	910	138	29	3.0	0			17
28	3.3	241	193	414	1,160	115	21	22	0			18
29	3.3	261	354	416	------	102	20	36	0			15
30	3.3	259	1,470	530	------	85	19	27	0			11
31	3.3	------	1,300	1,000	------	56	------	29	------			------
TOTAL	718.3	6,259.2	4,720	64,256	62,261	20,979	655.2	319.8	320.90	0	0	714.8
MEAN	23.2	209	152	2,073	2,224	677	21.8	10.3	10.7	0	0	23.8
MAX	54	1,100	1,470	9,260	7,510	2,440	40	36	54	0	0	58
MIN	3.3	3.0	21	414	373	56	9.6	0	0	0	0	0
AC-FT	1,420	12,420	9,360	127,500	123,500	41,610	1,300	634	637	0	0	1,420

CAL YR 1965 TOTAL 1,250,479.70 MEAN 3,426 MAX 122,000 MIN 0 AC-FT 2,480,000
WTR YR 1966 TOTAL 161,204.20 MEAN 442 MAX 9,260 MIN 0 AC-FT 319,700

11453000 YOLO BYPASS NEAR WOODLAND, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	.90	870	182	123,000	476	2,460	2,450	1,580	43		0
2	9.6	.90	1,010	120	111,000	404	2,690	2,200	1,840	0		0
3	9.6	.90	2,090	99	92,200	362	2,650	1,620	2,080	0		0
4	9.6	1.5	3,900	94	69,400	320	2,570	1,270	2,010	0		0
5	9.6	1.8	5,960	85	53,000	301	2,560	1,190	2,460	0		0
6	9.0	2.4	20,200	83	42,500	276	2,780	1,140	2,780	0		0
7	9.0	2.7	30,700	77	34,900	255	3,770	1,080	2,850	0		213
8	9.6	2.7	29,600	69	29,400	232	4,320	1,040	2,910	0		140
9	8.4	2.4	24,700	69	22,600	219	4,070	860	2,910	0		92
10	7.8	2.1	21,200	66	16,000	215	3,870	725	2,740	0		85
11	6.6	2.1	19,200	62	8,680	245	3,840	750	2,510	0		82
12	6.6	1.8	16,900	62	4,380	451	3,170	692	2,240	0		71
13	6.6	1.8	12,000	58	2,490	799	1,920	550	1,900	0		66
14	3.3	1.8	6,140	54	1,940	1,430	1,500	384	1,700	0		68
15	3.0	2.1	2,680	52	1,670	3,150	1,340	292	1,580	0		69
16	2.7	2.1	1,530	51	1,540	4,760	1,240	254	1,460	0		66
17	2.4	2.4	1,250	40	1,380	7,510	1,170	191	1,210	0		57
18	2.4	2.4	1,100	39	1,250	9,220	1,960	113	968	0		52
19	2.4	2.1	912	40	1,110	24,000	3,730	94	768	0		34
20	1.8	4.6	795	40	905	21,400	3,810	92	672	0		25
21	1.8	145	708	1,100	782	12,500	3,830	87	624	0		23
22	1.8	878	648	16,100	710	6,090	4,580	80	588	0		25
23	1.5	1,720	576	36,200	670	4,240	4,720	87	488	0		24
24	1.2	1,450	524	40,500	640	3,800	4,980	102	384	0		24
25	1.2	997	498	37,500	680	3,230	5,380	291	337	0		22
26	.60	546	498	29,200	670	1,850	5,100	1,120	318	0		20
27	.60	266	481	24,600	638	1,430	4,480	1,840	252	0		21
28	.60	169	431	26,500	564	1,260	3,550	1,750	200	0		20
29	.60	193	404	43,000	------	1,220	2,970	1,460	140	0		22
30	.60	334	366	82,000	------	1,290	2,650	1,300	99	0		24
31	.60	------	318	112,000	------	1,700	------	1,410	------	0		-----
TOTAL	140.70	6,739.50	208,189	450,142	624,699	114,635	97,660	26,514	42,598	43	0	1,345
MEAN	4.54	225	6,716	14,520	22,310	3,698	3,255	855	1,420	1.39	0	44.8
MAX	9.6	1,720	30,700	112,000	123,000	24,000	5,380	2,450	2,910	43	0	213
MIN	.60	.90	318	39	564	215	1,170	80	99	0	0	0
AC-FT	279	13,370	412,900	892,900	1,239M	227,400	193,700	52,590	84,490	85	0	2,670

CAL YR 1966 TOTAL 364,575.90 MEAN 999 MAX 30,700 MIN 0 AC-FT 723,100
WTR YR 1967 TOTAL 1,572,705.20 MEAN 4,309 MAX 123,000 MIN 0 AC-FT 3,119,000

M EXPRESSED IN THOUSANDS.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	11	22	12	5,800	14,000	368	0	3.4		0	21
2	19	12	20	10	4,760	9,400	397	0	3.4		0	18
3	19	12	17	12	6,880	5,080	332	0	3.4		0	18
4	17	12	13	12	8,110	2,640	270	0	3.4		0	18
5	18	16	17	12	7,000	1,650	244	0	3.4		0	20
6	19	12	15	19	4,760	1,200	186	0	3.4		0	19
7	21	12	18	21	3,340	1,050	113	0	3.4		0	18
8	29	13	25	34	2,480	945	72	0	3.4		0	18
9	23	19	23	56	1,860	782	51	0	3.4		0	18
10	30	19	20	62	1,310	700	46	0	3.4		0	18
11	32	19	13	69	1,020	582	58	0	3.4		0	19
12	24	12	12	282	832	498	62	0	3.4		0	20
13	25	11	11	299	662	765	44	0	3.3		0	21
14	16	12	12	261	552	1,740	36	0	3.3		0	23
15	12	12	12	294	468	2,200	31	0	3.3		0	23
16	9.0	12	19	1,880	427	2,320	30	0	5.6		0	21
17	9.0	12	17	1,660	506	2,950	27	0	7.2		0	21
18	7.8	12	12	1,350	1,820	2,720	26	0	5.1		0	20
19	7.8	18	20	1,020	2,610	2,420	30	0	2.1		0	20
20	12	15	21	851	3,650	2,370	27	0	.60		2.1	20
21	14	17	19	685	6,440	2,500	29	0	.20		11	19
22	14	16	15	462	7,840	2,410	27	0	4.1		18	18
23	12	19	13	275	10,300	2,180	27	0	7.2		20	11
24	12	13	13	200	14,900	1,560	31	259	6.1		20	2.1
25	16	12	11	156	18,600	1,340	29	217	1.2		20	11
26	18	16	8.4	136	18,100	1,240	29	75	.06		21	85
27	19	12	9.6	118	19,000	1,190	24	19	.06		21	116
28	20	15	17	99	19,000	1,120	19	3.4	.01		22	44
29	18	16	17	88	17,000	889	24	3.4	0		24	29
30	9.0	23	17	6,680	------	560	16	3.4	0		24	25
31	7.8	------	18	9,100	------	419	------	3.4	------		23	------
TOTAL	530.4	432	497.0	26,215	190,027	71,420	2,705	583.6	90.23	0	226.1	754.1
MEAN	17.1	14.4	16.0	846	6,553	2,304	90.2	18.8	3.01	0	7.29	25.1
MAX	32	23	25	9,100	19,000	14,000	397	259	7.2	0	24	116
MIN	7.8	11	8.4	10	427	419	16	0	0	0	0	2.1
AC-FT	1,050	857	986	52,000	376,900	141,700	5,370	1,160	179	0	448	1,500

CAL YR 1967 TOTAL 1,359,095.40 MEAN 3,724 MAX 123,000 MIN 0 AC-FT 2,696,000
WTR YR 1968 TOTAL 293,480.43 MEAN 802 MAX 19,000 MIN 0 AC-FT 582,100

11453000 YOLO BYPASS NEAR WOODLAND, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	7.8	4.1	1,690	63,100	34,900	901	259	632	22	5.1	35
2	22	8.4	4.1	1,360	40,300	36,300	889	248	527	18	5.1	35
3	21	14	3.0	945	27,400	36,100	904	211	440	15	6.6	36
4	21	16	3.0	626	19,600	31,800	911	215	352	12	13	35
5	20	24	3.0	442	13,100	24,600	961	215	206	8.4	29	35
6	21	24	2.7	337	15,100	18,900	976	169	94	15	27	34
7	20	24	4.6	272	19,900	13,500	1,010	115	79	21	27	31
8	15	19	6.1	248	19,100	8,980	1,030	69	77	20	26	32
9	17	13	5.1	219	19,200	6,620	1,040	57	58	22	25	39
10	18	9.0	6.1	193	21,300	6,000	1,040	87	52	32	25	32
11	15	7.8	8.4	167	22,100	5,720	1,090	160	60	32	24	32
12	17	8.4	7.2	169	33,300	5,460	1,120	395	60	34	23	27
13	17	10	5.1	1,300	43,200	5,010	1,140	635	134	35	20	27
14	14	4.6	12	8,100	52,200	4,370	1,130	812	134	35	20	26
15	16	8.4	32	11,000	65,000	3,930	997	916	116	34	19	27
16	29	9.0	366	36,700	82,000	3,630	724	1,020	97	9.0	19	25
17	20	9.0	2,270	32,400	81,000	3,530	544	1,060	80	4.1	20	22
18	12	8.4	2,160	20,500	77,800	3,120	469	1,050	63	5.6	6.1	22
19	21	9.0	1,600	13,700	70,100	2,810	335	1,060	58	9.6	.90	24
20	21	12	895	28,700	58,100	1,760	282	1,050	62	24	.60	24
21	16	19	412	50,600	47,000	1,640	282	1,030	50	31	.30	24
22	15	18	216	79,200	39,700	1,640	259	983	60	25	.30	20
23	14	10	146	98,900	36,700	1,760	222	944	30	5.6	.15	19
24	29	7.8	126	107,000	34,500	1,540	224	894	0	0	.10	19
25	32	7.2	203	102,000	35,100	1,270	268	865	0	0	3.7	19
26	35	5.1	2,400	100,000	38,700	1,140	270	877	0	0	15	18
27	35	4.6	3,720	109,000	33,700	1,120	287	880	.10	0	24	18
28	29	5.6	3,160	100,000	30,200	1,060	282	856	.30	15	26	18
29	13	5.6	2,590	94,800	------	990	272	820	1.5	31	27	18
30	10	4.6	2,320	83,000	------	959	292	767	8.4	29	27	18
31	7.8	------	2,020	78,400	------	944	------	707	------	18	30	------
TOTAL	611.8	333.3	24,710.5	1,162.0M	1,138.5M	271,103	20,151	19,426	3,531.30	562.3	494.95	791
MEAN	19.7	11.1	797	37,480	40,660	8,745	672	627	118	18.1	16.0	26.4
MAX	35	24	3,720	109,000	82,000	36,300	1,140	1,060	632	35	30	39
MIN	7.8	4.6	2.7	167	13,100	944	222	57	0	0	.10	18
AC-FT	1,210	661	49,010	2,305M	2,258M	537,700	39,970	38,530	7,000	1,120	982	1,570

CAL YR 1968 TOTAL 317,676.63 MEAN 868 MAX 19,000 MIN 0 AC-FT 630,100
WTR YR 1969 TOTAL 2,642,183.15 MEAN 7,239 MAX 109,000 MIN 0 AC-FT 5,241,000

M EXPRESSED IN THOUSANDS.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	10	6	9,940	113,000	3,020	213	16	8.4	.08	0	56
2	18	10	6	5,260	95,300	3,180	206	26	8.4	.15	10	52
3	18	10	6	2,320	83,100	2,770	185	51	7.2	.20	29	50
4	17	9.0	7	1,250	71,600	2,850	176	36	8.4	.15	31	56
5	16	11	9	960	60,000	4,660	158	11	9.6	.10	31	68
6	16	12	16	732	51,400	4,620	145	0	10	.02	17	62
7	17	10	11	560	44,500	4,260	136	0	10	0	3.3	60
8	17	12	10	486	35,800	3,620	90	0	11	0	.60	51
9	17	12	8	598	30,500	2,600	55	2.1	11	0	3.0	44
10	21	11	6	4,840	27,000	2,670	40	3.3	4.1	0	5.6	40
11	118	12	6	5,590	23,500	2,590	30	4.1	.03	0	6.6	34
12	69	12	6	4,200	20,400	2,430	21	8.4	0	0	6.1	25
13	36	16	6	3,820	18,500	2,230	23	18	0	0	5.6	19
14	31	30	7	8,230	21,800	2,080	28	24	0	0	17	10
15	30	21	7	45,800	22,800	1,980	33	4.1	0	0	36	9.0
16	30	26	8	79,100	21,100	1,800	39	.60	0	0	29	9.6
17	25	20	30	126,000	18,600	1,750	44	1.5	0	.04	25	10
18	23	18	58	135,000	18,800	1,590	30	1.5	0	2.4	18	14
19	13	22	72	130,000	16,100	1,510	17	1.5	0	13	15	13
20	12	25	246	128,000	11,900	1,420	27	1.8	1.0	20	13	14
21	10	25	1,760	126,000	7,630	1,370	5.1	2.4	15	25	3.7	34
22	9.6	23	3,200	172,000	5,470	1,350	3.3	5.1	31	42	.02	50
23	10	23	3,340	173,000	4,310	1,230	16	17	39	40	.60	56
24	11	13	4,340	190,000	3,800	1,130	19	44	29	25	1.8	63
25	11	7.8	25,500	217,000	3,580	982	26	35	23	7.4	2.7	63
26	11	6.1	38,100	224,000	3,480	616	48	32	22	0	9.0	62
27	11	6.1	35,100	208,000	3,420	380	23	30	6.2	0	25	62
28	10	6.1	29,600	196,000	3,120	302	7.2	25	0	0	24	60
29	9.6	6.1	23,000	174,000	------	257	21	19	0	0	25	58
30	9.6	6.1	18,000	164,000	------	227	32	7.8	0	0	38	62
31	10	------	13,600	144,000	------	220	------	6.1	------	0	62	------
TOTAL	674.8	431.3	196,071	2,680.7M	840,510	61,694	1,896.6	434.30	254.33	175.54	493.62	1,266.6
MEAN	21.8	14.4	6,325	86,470	30,020	1,990	63.2	14.0	8.48	5.66	15.9	42.2
MAX	118	30	38,100	224,000	113,000	4,660	213	51	39	42	62	68
MIN	9.6	6.1	6.0	486	3,120	220	3.3	0	0	0	0	9.0
AC-FT	1,340	855	388,900	5,317M	1,667M	122,400	3,760	861	504	348	979	2,510

CAL YR 1969 TOTAL 2,813,704.65 MEAN 7,709 MAX 109,000 MIN 0 AC-FT 5,581,000
WTR YR 1970 TOTAL 3,784,588.09 MEAN 10,370 MAX 224,000 MIN 0 AC-FT 7,507,000

M EXPRESSED IN THOUSANDS.

11453200 DRY CREEK NEAR MIDDLETOWN, CALIF.

LOCATION.--Lat 38°44'07", long 122°38'52", in NW¼NW¼ sec.9, T.10 N., R.7 W., Lake County, on right bank 0.3 mile downstream from Kroll Creek, 2.1 miles southwest of Middletown, and 2.7 miles upstream from mouth.

DRAINAGE AREA.--8.35 sq mi (revised).

PERIOD OF RECORD.--May 1959 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 1,172.15 ft above mean sea level.

AVERAGE DISCHARGE.--11 years, 29.3 cfs (21,230 acre-ft per year); median of yearly mean discharges, 25 cfs (18,100 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (1,000 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Jan. 5, 1966	-	*2,040	8.63	Jan. 10, 1968	0245	*1,840	8.40	Dec. 12, 1969	0800	1,140	7.22
				Jan. 29, 1968	1815	1,230	7.55	Dec. 21, 1969	0530	1,630	8.04
Nov. 20, 1966	0130	2,280	8.88					Dec. 24, 1969	0115	2,050	8.61
Dec. 2, 1966	1400	1,160	7.44	Dec. 10, 1968	1030	1,280	7.49	Jan. 9, 1970	1500	1,180	7.29
Dec. 4, 1966	2200	1,590	8.08	Jan. 13, 1969	0800	*1,640	8.06	Jan. 13, 1970	2300	1,870	8.39
Jan. 21, 1967	0745	*2,380	8.98	Jan. 21, 1969	1830	1,570	7.95	Jan. 16, 1970	0400	2,310	8.92
Jan. 29, 1967	0230	1,550	8.03	Jan. 26, 1969	0130	1,180	7.30	Jan. 21, 1970	0145	2,120	8.70
				Feb. 9, 1969	0515	1,120	7.17	Jan. 23, 1970	2030	*2,630	9.28

No flow for many days in each year.

Period of record: Maximum discharge, 3,470 cfs Feb. 8, 1960 (gage height, 9.90 ft); no flow for many days in each year.

REMARKS.--Records good. No regulation or diversion above station. Water-quality records for the water year 1966 are published in reports of the Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.10	10	60	72	30	9.5	5.6	1.9	.30		
2	0	.10	8.8	44	50	26	8.9	5.3	1.8	.30		
3	0	.10	8.0	110	71	24	8.1	5.0	1.8	.30		
4	0	.10	7.5	880	142	22	7.7	4.8	1.7	.30		
5	0	.10	7.0	1,300	98	20	7.4	5.0	1.6	.30		
6	.10	.10	6.6	205	68	19	7.1	4.9	1.8	.30		
7	0	.30	6.2	115	52	19	6.8	4.6	1.7	.30		
8	0	.90	5.8	82	43	17	6.6	4.3	1.6	.40		
9	0	3.9	5.5	60	36	52	23	4.5	1.4	.40		
10	.10	5.3	5.1	45	30	89	33	4.6	1.3	.40		
11	.10	5.0	7.5	39	26	44	50	4.3	1.2	.40		
12	.10	4.5	8.8	35	23	35	58	3.9	1.1	.40		
13	.10	52	7.0	31	20	40	30	3.7	1.0	.30		
14	.10	86	6.2	27	19	33	23	3.5	.90	.30		
15	.10	26	5.5	24	17	31	19	3.4	.90	.20		
16	.10	12	5.1	22	16	28	17	3.2	.80	.20		
17	.10	28	4.9	20	15	25	15	3.0	.80	.20		
18	.10	76	4.5	18	15	23	14	2.8	.80	.20		
19	.10	82	4.3	17	76	23	13	2.6	.70	.20		
20	.10	25	4.1	16	35	20	12	2.4	.60	.10		
21	.10	14	3.9	15	28	19	11	2.5	.60	.10		
22	.10	11	3.9	14	30	17	10	2.5	.70	.10		
23	.10	9.0	3.6	13	34	16	9.4	2.4	.70	.10		
24	.10	103	273	13	52	15	8.5	2.2	.60	.10		
25	.10	54	96	12	52	14	8.2	2.1	.50	0		
26	.10	25	40	12	49	13	7.6	2.0	.50	0		
27	.10	19	32	11	39	12	7.2	2.0	.50	0		
28	.10	16	370	11	34	11	6.8	2.0	.40	0		
29	.10	14	120	34	------	11	6.3	2.1	.40	0		
30	.10	12	102	95	------	10	5.9	2.1	.40	0		
31	.10	------	90	40	------	10	------	2.0	------	0		------
TOTAL	2.30	684.50	1,262.8	3,420	1,242	768	450.0	105.3	30.70	6.20	0	0
MEAN	.074	22.8	40.7	110	44.4	24.8	15.0	3.40	1.02	.20	0	0
MAX	.10	103	370	1,300	142	89	58	5.6	1.9	.40	0	0
MIN	0	.10	3.6	11	15	10	5.9	2.0	.40	0	0	0
AC-FT	4.6	1,360	2,500	6,780	2,460	1,520	893	209	61	12	0	0

CAL YR 1965 TOTAL 8,536.10 MEAN 23.4 MAX 955 MIN 0 AC-FT 16,930
WTR YR 1966 TOTAL 7,971.80 MEAN 21.8 MAX 1,300 MIN 0 AC-FT 15,810

NOTE.--NO GAGE-HEIGHT RECORD DEC. 29 TO JAN. 31.

11453200 DRY CREEK NEAR MIDDLETOWN, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	68	7.8	123	7.8	57	27	4.9	1.8	.16	
2	0	0	440	7.3	84	7.5	46	25	37	1.7	.16	
3	0	0	190	7.0	65	7.5	41	22	17	1.6	.14	
4	0	0	640	6.8	51	7.5	37	20	10	1.6	.10	
5	0	0	330	6.5	42	6.5	52	19	9.1	1.5	.08	
6	0	1.2	200	6.3	36	6.3	173	17	8.0	1.4	.08	
7	0	.70	115	6.0	32	6.0	91	16	7.3	1.3	.06	
8	0	.50	80	5.8	29	5.8	64	14	6.3	1.3	.06	
9	0	.40	56	5.5	25	5.5	49	15	6.0	1.4	.05	
10	0	.40	70	5.3	23	42	76	15	5.5	1.3	.05	
11	0	.60	58	5.1	20	73	69	13	5.1	1.1	.04	
12	0	6.3	44	5.1	19	82	52	12	4.8	1.1	.04	
13	0	6.0	37	4.9	18	77	42	11	4.5	.95	.03	
14	0	58	31	4.9	17	64	40	10	4.1	.90	.03	
15	0	207	27	4.7	16	139	40	9.4	4.0	.85	.02	
16	0	187	24	4.5	15	468	35	9.1	3.7	.75	.02	
17	0	25	22	4.3	14	123	164	8.5	3.5	.75	.01	
18	0	13	20	4.1	13	79	119	8.0	3.4	.75	0	
19	0	247	18	4.1	12	55	88	7.8	3.5	.65	0	
20	0	546	17	490	11	91	69	6.8	3.3	.65	0	
21	0	150	15	1,370	11	72	88	6.3	3.3	.60	0	
22	0	110	14	226	11	58	73	5.5	3.0	.52	0	
23	.10	49	13	99	10	96	91	5.3	3.0	.52	0	
24	.10	32	12	174	9.7	56	74	4.9	2.8	.48	0	
25	.10	23	12	114	12	44	59	4.7	2.5	.40	0	
26	.10	19	11	134	9.4	38	50	4.5	2.4	.36	0	
27	.10	15	10	155	8.5	32	48	4.1	2.4	.32	0	
28	.10	20	9.9	334	8.3	31	39	4.1	2.3	.28	0	
29	.10	37	9.4	589	------	26	35	3.9	2.1	.28	0	
30	0	30	8.8	298	------	69	31	3.8	1.9	.22	0	
31	0	------	8.0	260	------	81	------	3.8	------	.20	0	------
TOTAL	.70	1,784.10	2,610.1	4,349.0	744.9	1,956.4	1,992	336.5	176.7	27.53	1.13	0
MEAN	.023	59.5	84.2	140	26.6	63.1	66.4	10.9	5.89	.89	.037	0
MAX	.10	546	640	1,370	123	468	173	27	37	1.8	.16	0
MIN	0	0	8.0	4.1	8.3	5.5	31	3.8	1.9	.20	0	0
AC-FT	1.4	3,540	5,180	8,630	1,480	3,880	3,950	667	350	55	2.2	0

CAL YR 1966 TOTAL 10,417.10 MEAN 28.5 MAX 1,300 MIN 0 AC-FT 20,660
WTR YR 1967 TOTAL 13,979.06 MEAN 38.3 MAX 1,370 MIN 0 AC-FT 27,730

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.12	5.8	4.7	72	23	22	3.6	1.3	.18	0	.06
2	.44	.10	3.3	4.5	109	20	19	3.5	1.2	.16	0	.05
3	.65	.10	142	4.3	80	19	17	3.3	1.3	.18	0	.05
4	.20	.12	159	4.1	59	17	15	3.3	1.2	.14	0	.04
5	.25	.12	74	3.9	46	17	14	3.2	1.2	.12	0	.05
6	.16	.16	23	3.8	38	15	13	3.2	1.2	.10	0	.05
7	.14	.16	128	3.8	33	16	13	3.0	1.2	.06	0	.02
8	.10	.36	32	3.8	29	15	12	2.9	1.1	.06	0	.01
9	.08	.48	19	39	26	13	11	2.9	1.0	.06	0	.02
10	.08	.28	14	385	23	12	10	2.7	1.0	.05	0	.02
11	.06	.22	12	51	21	11	10	2.7	1.0	.05	0	.02
12	.06	.25	9.1	32	19	95	9.4	2.7	.95	.05	0	.02
13	.08	1.4	8.0	28	18	103	9.1	4.7	.90	.05	0	.02
14	.06	10	7.0	161	17	137	8.3	3.9	.85	.06	0	.02
15	.05	1.7	6.5	199	15	71	8.0	3.2	.80	.06	0	.03
16	.05	1.0	6.0	108	28	188	7.8	2.9	.70	.07	0	.03
17	.05	.80	10	61	105	88	7.5	2.6	.65	.06	0	.02
18	.05	.70	40	42	53	64	7.3	2.4	.52	.05	0	.02
19	.06	.65	20	33	196	52	7.0	2.4	.48	.04	0	.02
20	.08	.60	15	27	158	44	6.5	2.6	.48	.03	.44	.02
21	.08	.56	12	23	216	39	6.3	2.4	.48	.02	1.1	.02
22	.10	.52	10	20	97	35	5.8	2.3	.40	.02	.72	.02
23	.12	.52	9.1	17	77	32	5.8	2.2	.36	.02	.41	.01
24	.12	.52	8.8	16	58	30	5.3	2.2	.32	.02	.29	.01
25	.12	.52	8.0	15	46	28	5.1	2.6	.28	.01	.26	0
26	.12	.48	7.3	14	39	25	4.7	2.2	.25	0	.26	0
27	.12	.52	6.5	13	33	23	4.5	2.0	.25	0	.18	0
28	.12	.60	6.0	18	29	21	4.1	1.8	.20	0	.14	0
29	.10	24	5.5	630	25	20	3.9	1.7	.20	0	.12	0
30	.10	13	5.3	300	------	19	3.8	1.6	.18	0	.09	0
31	.12	------	4.9	107	------	17	------	1.4	------	0	.07	------
TOTAL	3.92	60.56	817.1	2,371.9	1,765	1,309	276.2	84.1	21.95	1.72	4.08	.65
MEAN	.13	2.02	26.4	76.5	60.9	42.2	9.21	2.71	.73	.056	.13	.022
MAX	.65	24	159	630	216	188	22	4.7	1.3	.18	1.1	.06
MIN	0	.10	3.3	3.8	15	11	3.8	1.4	.18	0	0	0
AC-FT	7.8	120	1,620	4,700	3,500	2,600	548	167	44	3.4	8.1	1.3

CAL YR 1967 TOTAL 10,465.74 MEAN 28.7 MAX 1,370 MIN 0 AC-FT 20,760
WTR YR 1968 TOTAL 6,716.18 MEAN 18.4 MAX 630 MIN 0 AC-FT 13,320

11453200 DRY CREEK NEAR MIDDLETOWN, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.95	2.5	30	91	157	12	12	2.9	1.1	.09	0
2	0	11	2.4	26	72	120	23	11	2.9	1.0	.06	0
3	0	5.8	2.2	22	57	89	20	11	2.8	.95	.05	0
4	0	2.6	2.0	19	50	74	17	10	2.8	.89	.03	0
5	0	1.8	2.0	18	112	61	95	9.3	2.8	.83	.04	0
6	0	1.4	1.9	15	200	51	48	8.5	2.8	.78	.06	0
7	0	1.3	1.9	14	95	44	35	8.3	2.8	.73	.05	0
8	0	1.0	4.8	13	142	38	29	8.0	2.8	.68	.06	0
9	0	.89	89	12	670	34	29	7.5	2.9	.63	.04	0
10	0	.83	535	11	248	31	25	7.3	3.0	.58	.03	0
11	.58	1.1	74	238	378	28	22	6.8	2.9	.53	.03	0
12	14	2.5	29	706	191	28	20	6.5	2.8	.53	.03	0
13	2.4	1.5	47	985	112	25	19	6.3	2.6	.48	.02	0
14	1.4	2.6	124	187	154	23	18	6.0	2.4	.44	.02	0
15	1.2	9.0	288	90	358	21	16	5.8	2.2	.44	.01	0
16	.83	5.2	76	64	172	20	15	5.4	2.0	.36	0	0
17	.63	3.9	43	48	112	29	14	5.2	2.0	.32	.01	0
18	.53	6.5	32	140	88	25	13	5.0	2.2	.29	.03	0
19	.48	5.8	25	618	69	22	12	4.8	2.0	.26	.05	0
20	.44	4.3	20	870	54	23	11	4.7	1.9	.23	.05	.03
21	.40	3.6	17	940	46	27	11	4.5	1.9	.23	.03	.07
22	.36	3.0	15	358	44	22	11	4.3	1.7	.20	.02	.07
23	.36	2.6	31	149	76	20	39	4.2	1.5	.17	0	.07
24	.32	3.1	226	103	108	18	34	4.0	1.4	.17	0	.06
25	.29	2.8	298	280	105	18	22	4.0	1.4	.17	.01	.05
26	.29	2.4	111	427	84	16	18	4.3	1.4	.17	0	.04
27	.29	2.0	66	149	86	15	16	4.3	1.4	.15	0	.03
28	.26	1.9	92	105	268	14	15	3.9	1.4	.15	0	.04
29	3.3	2.0	56	79	------	13	13	3.6	1.3	.13	0	.04
30	3.4	2.6	44	72	------	13	13	3.3	1.2	.11	0	.04
31	1.4	------	35	60	------	12	------	3.0	------	.11	0	------
TOTAL	33.16	95.97	2,392.7	6,848	4,242	1,131	685	192.8	66.1	13.81	.82	.54
MEAN	1.07	3.20	77.2	221	152	36.5	22.8	6.22	2.20	.45	.027	.018
MAX	14	11	535	985	670	157	95	12	3.0	1.1	.09	.07
MIN	0	.83	1.9	11	44	12	11	3.0	1.2	.11	0	0
AC-FT	66	190	4,750	13,580	8,410	2,240	1,360	382	131	27	1.6	1.1

CAL YR 1968 TOTAL 8,356.43 MEAN 22.8 MAX 630 MIN 0 AC-FT 16,570
WTR YR 1969 TOTAL 15,701.90 MEAN 43.0 MAX 985 MIN 0 AC-FT 31,140

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.32	.44	20	42	117	7.8	3.5	.88	.19		
2	.02	.32	.44	18	36	46	7.6	3.4	.81	.16		
3	.03	.32	.48	17	32	36	7.2	3.2	.74	.13		
4	.02	.40	.48	16	30	101	6.9	3.1	.64	.11		
5	.03	7.3	.48	14	26	63	6.6	3.0	.63	.08		
6	.04	2.9	.48	14	24	46	6.4	3.1	.63	.07		
7	.05	1.9	.48	13	22	41	6.2	3.0	.65	.07		
8	.07	1.5	1.1	41	20	40	6.0	3.0	.80	.06		
9	.09	1.3	.78	403	19	35	6.0	3.0	1.1	.05		
10	.09	1.0	3.9	149	18	30	5.8	2.9	.93	.05		
11	.09	.89	38	86	17	26	5.6	2.9	.80	.04		
12	.09	.83	565	176	32	23	5.5	2.8	.67	.04		
13	.11	.73	105	638	210	21	5.8	2.8	.63	.03		
14	.29	.73	38	806	75	19	5.7	2.6	.69	.03		
15	3.6	.68	22	270	48	18	5.5	2.3	.69	.03		
16	2.6	.68	17	866	226	17	5.6	2.2	.60	.02		
17	1.1	.63	16	323	152	16	5.4	2.0	.58	.03		
18	.73	.63	37	167	82	15	5.0	1.9	.51	.02		
19	.53	.58	565	204	58	14	5.0	1.9	.45	.02		
20	.44	.58	517	433	46	13	4.6	1.9	.38	.02		
21	.36	.58	658	1,050	38	12	4.7	1.8	.29	.02		
22	.32	.58	115	834	33	12	4.4	1.7	.25	.01		
23	.36	.58	722	1,330	30	11	4.3	1.5	.23	.01		
24	.40	.53	654	626	27	11	4.2	1.4	.24	.01		
25	.40	.53	151	220	24	10	4.1	1.3	.24	0		
26	.40	.53	80	184	22	9.8	4.4	1.4	.20	0		
27	.40	.53	53	335	20	9.4	4.3	1.3	.22	0		
28	.40	.48	39	123	48	9.0	4.1	1.2	.23	0		
29	.36	.44	31	85	------	8.7	3.9	1.2	.24	0		
30	.36	.40	26	66	------	8.3	3.7	1.1	.21	0		
31	.36	------	23	51	------	8.0	------	.93	------	0		------
TOTAL	14.17	29.40	4,481.06	9,578	1,457	846.2	162.3	69.33	16.16	1.30	0	0
MEAN	.46	.98	145	309	52.0	27.3	5.41	2.24	.54	.042	0	0
MAX	3.6	7.3	722	1,330	226	117	7.8	3.5	1.1	.19	0	0
MIN	.02	.32	.44	13	17	8.0	3.7	.93	.20	0	0	0
AC-FT	28	58	8,890	19,000	2,890	1,680	322	138	32	2.6	0	0

CAL YR 1969 TOTAL 17,704.70 MEAN 48.5 MAX 985 MIN 0 AC-FT 35,120
WTR YR 1970 TOTAL 16,654.92 MEAN 45.6 MAX 1,330 MIN 0 AC-FT 33,040

NOTE.--NO GAGE-HEIGHT RECORD MAR. 9 TO APR. 8.

11453500 PUTAH CREEK NEAR GUENOC, CALIF.

LOCATION.--Lat 38°46'44", long 122°30'59", in Guenoc Grant, Lake County, on right bank just upstream from Coyote Valley Dam site, 2.8 miles upstream from Soda Creek and 3.2 miles downstream from highway bridge at Guenoc.

DRAINAGE AREA.--113 sq mi (revised).

PERIOD OF RECORD.--February 1904 to September 1906, July 1930 to September 1970. Monthly discharge only for some periods, published in WSP 1315-A.

GAGE.--Water-stage recorder. Datum of gage is 914.18 ft above mean sea level. February 1904 to September 1906 nonrecording gage at site 0.2 mile upstream at different datum.

AVERAGE DISCHARGE.--42 years, 211 cfs (152,900 acre-ft per year); median of yearly mean discharges, 173 cfs (125,000 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (5,000 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Dec. 28, 1965	1400	5,350	10.51	Mar. 16, 1967	0200	7,560	12.19	Feb. 9, 1969	0800	7,010	11.80
Jan. 4, 1966	2200	*15,300	16.45								
				Jan. 10, 1968	0500	7,650	12.25	Dec. 21, 1969	0800	9,300	13.31
Nov. 19, 1966	2400	7,900	12.42	Jan. 29, 1968	2100	*11,000	14.28	Dec. 24, 1969	0400	9,380	13.36
Dec. 2, 1966	1700	8,450	12.78					Jan. 9, 1970	1700	9,090	13.18
Dec. 5, 1966	0100	9,380	13.36	Dec. 15, 1968	1200	6,460	11.39	Jan. 16, 1970	0700	13,700	15.69
Jan. 21, 1967	1200	*20,300	18.63	Jan. 12, 1969	-	*11,100	a14.35	Jan. 21, 1970	0300	11,000	14.30
Jan. 29, 1967	0500	10,600	14.05	Jan. 21, 1969	0600	8,900	13.06	Jan. 23, 1970	2200	*20,700	18.75
				Jan. 26, 1969	0300	8,510	12.82	Jan. 27, 1970	0300	5,480	10.62

a From high watermark in gage well.

Annual minimum daily discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	Sept.10, 11, 16, 17, 22, 1966	.10	1969	Oct. 10, 18, 1968	.72
1967	Oct. 6-8, 1966	.10	1970	Sept.25, 28, 29, 1970	.01
1968	Sept.29, 1968	1.2			

Period of record: Maximum discharge, 32,000 cfs Dec. 11, 1937 (gage height, 22.7 ft), from rating curve extended above 13,000 cfs; no flow for many days in August and September 1964.

REMARKS.--Records good. No gage-height record Jan. 11-13, Aug. 1 to Sept. 8, 1969. Since 1969, some regulation by Hartmann Dam on Coyote Creek (capacity, 3,000 acre-ft); diversions and ground-water withdrawals for irrigation of about 1,600 acres above station. Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

REVISIONS (WATER YEARS).--WSP 1285: 1937(M), 1938, 1940, 1943(M), 1951(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.70	1.3	78	484	843	233	85	49	16	4.1	1.7	.30
2	.70	.60	69	360	522	214	79	48	17	3.5	1.3	.30
3	1.3	.70	63	806	854	194	76	44	18	3.4	1.6	.40
4	1.1	.90	60	7,760	2,040	180	72	41	17	3.2	.90	.60
5	1.2	1.5	56	8,350	1,100	171	71	41	17	3.4	.90	.60
6	1.6	1.7	53	2,180	766	164	67	40	19	3.2	2.0	.20
7	1.4	2.1	49	1,180	572	158	67	38	20	3.2	1.0	.30
8	1.2	2.0	48	829	454	149	66	37	19	2.9	1.4	.30
9	1.1	1.8	45	635	371	171	72	37	18	2.7	1.4	.20
10	1.3	1.8	41	505	318	397	134	38	14	2.9	.40	.10
11	.80	1.8	45	422	275	256	175	37	15	2.6	.30	.10
12	.50	2.2	62	362	247	210	233	34	14	2.6	1.3	.20
13	.60	78	54	316	222	214	160	31	12	2.6	2.1	.30
14	1.0	670	49	282	206	192	126	30	11	2.5	1.2	.20
15	1.4	208	46	254	188	180	109	30	9.8	2.4	.70	.20
16	1.0	89	44	229	175	175	98	30	8.5	2.1	.60	.10
17	1.5	202	42	210	166	160	90	28	9.2	3.7	.30	.10
18	1.0	593	40	196	158	151	86	27	9.8	2.6	.30	.40
19	1.4	645	39	182	714	146	83	26	9.2	1.6	.20	.40
20	1.1	200	38	167	377	138	76	25	7.5	2.1	.20	.30
21	1.5	114	37	157	284	131	74	22	7.0	1.4	.20	.20
22	1.7	82	36	151	251	125	69	24	5.8	1.3	.20	.10
23	1.8	72	35	144	275	122	67	21	6.0	1.3	.30	.20
24	1.8	866	1,050	139	323	115	63	20	6.5	2.4	.20	.20
25	1.8	434	819	131	313	110	62	19	7.9	1.8	.20	.50
26	1.7	216	328	128	368	106	58	18	7.9	2.5	.20	.30
27	1.7	166	220	123	284	101	56	18	7.9	3.0	.20	.50
28	1.3	128	2,420	117	256	99	55	17	6.7	1.0	.20	.20
29	1.2	106	1,450	447	------	95	53	18	6.2	1.2	.20	.30
30	1.3	90	824	1,040	------	92	52	18	4.1	1.7	.20	.40
31	1.8	------	818	441	------	86	------	16	------	1.4	.30	------
TOTAL	39.50	4,977.40	9,058	28,727	12,922	5,035	2,634	922	347.0	76.3	22.20	8.50
MEAN	1.27	166	292	927	462	162	87.8	29.7	11.6	2.46	.72	.28
MAX	1.8	866	2,420	8,350	2,040	397	233	49	20	4.1	2.1	.60
MIN	.50	.60	35	117	158	86	52	16	4.1	1.0	.20	.10
AC-FT	78	9,870	17,970	56,980	25,630	9,990	5,220	1,830	688	151	44	17

CAL YR 1965 TOTAL 73,677.60 MEAN 202 MAX 10,100 MIN .30 AC-FT 146,100
WTR YR 1966 TOTAL 64,768.90 MEAN 177 MAX 8,350 MIN .10 AC-FT 128,500

11453500 PUTAH CREEK NEAR GUENOC, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.40	1.0	405	79	1,320	106	525	318	76	25	6.2	3.4
2	.40	.70	2,830	78	927	104	425	294	267	25	6.2	3.4
3	.40	.60	1,660	75	709	102	382	270	242	24	6.0	3.2
4	.30	.80	3,920	72	579	101	341	251	133	22	6.0	3.4
5	.30	1.1	3,920	69	477	95	360	235	107	21	6.2	3.2
6	.10	1.5	1,630	68	406	90	1,230	220	98	20	6.0	3.0
7	.10	1.4	950	66	352	88	837	204	92	19	5.5	3.0
8	.10	1.3	658	63	313	85	616	188	83	19	5.3	3.0
9	.30	1.2	501	62	284	82	491	182	79	18	5.3	3.2
10	.30	1.3	639	60	258	205	589	188	75	18	5.3	3.2
11	.20	1.3	451	58	231	811	608	171	71	16	5.0	3.2
12	.20	1.3	368	58	216	810	471	160	66	15	4.8	3.2
13	.20	1.3	323	56	202	774	397	151	62	14	4.8	2.9
14	.20	1.5	284	55	188	568	365	141	58	13	4.8	2.9
15	.20	142	242	53	176	711	377	136	54	13	4.4	2.9
16	.60	752	212	52	171	4,440	343	130	49	12	4.6	2.6
17	.70	96	188	50	162	1,360	1,010	123	45	12	4.4	2.6
18	.60	46	169	49	155	837	1,180	117	43	10	4.4	2.6
19	.60	1,370	157	48	146	620	927	110	42	9.5	4.3	2.5
20	.90	2,800	144	1,750	139	658	677	106	42	9.5	4.1	2.5
21	.80	1,060	134	12,900	133	627	833	102	40	8.5	4.3	2.4
22	1.2	724	126	2,840	128	491	753	98	38	7.9	4.3	2.2
23	1.2	318	120	1,220	126	635	878	92	36	7.9	4.3	2.2
24	1.0	202	114	2,460	125	467	905	88	35	7.9	4.1	2.2
25	.70	149	107	1,410	133	394	693	86	33	7.5	3.9	2.4
26	.90	122	102	1,370	120	346	568	85	33	7.0	3.9	2.0
27	.60	102	98	1,500	112	306	525	82	33	6.0	3.9	1.7
28	.50	263	93	2,360	109	289	454	78	31	5.5	3.7	1.7
29	.80	482	90	5,000	------	265	397	76	29	6.5	3.7	1.6
30	1.0	229	88	2,820	------	556	352	74	27	6.7	3.5	1.7
31	1.1	------	82	2,390	------	795	------	74	------	6.5	3.5	------
TOTAL	16.90	8,873.30	20,805	39,191	8,397	17,818	18,509	4,630	2,119	412.9	146.7	80.0
MEAN	.55	296	671	1,264	300	575	617	149	70.6	13.3	4.73	2.67
MAX	1.2	2,800	3,920	12,900	1,320	4,440	1,230	318	267	25	6.2	3.4
MIN	.10	.60	82	48	109	82	341	74	27	5.5	3.5	1.6
AC-FT	34	17,600	41,270	77,740	16,660	35,340	36,710	9,180	4,200	819	291	159

CAL YR 1966 TOTAL 80,389.20 MEAN 220 MAX 8,350 MIN .10 AC-FT 159,500
WTR YR 1967 TOTAL 120,998.80 MEAN 332 MAX 12,900 MIN .10 AC-FT 240,000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	2.5	49	37	669	222	178	32	15	6.0	5.0	2.2
2	2.2	2.5	34	36	954	208	173	28	15	6.0	5.3	2.1
3	2.5	2.5	483	35	701	190	146	28	16	6.2	4.8	2.1
4	2.5	2.7	611	34	518	176	136	28	16	6.0	4.8	2.1
5	2.6	2.7	778	33	416	167	126	25	14	6.0	4.6	2.1
6	2.5	2.7	191	32	346	158	120	25	14	6.5	4.4	2.1
7	2.5	2.7	642	31	301	157	115	23	14	6.7	4.1	2.0
8	2.5	3.0	229	31	265	158	109	23	14	6.7	4.3	2.0
9	2.4	3.4	138	35	238	144	104	22	13	6.5	3.7	2.0
10	2.6	3.9	104	2,460	214	136	99	22	12	6.2	3.7	2.0
11	2.5	3.9	86	410	194	128	95	22	11	6.0	3.4	2.0
12	2.4	4.3	72	233	178	428	90	24	11	5.8	3.4	2.0
13	2.5	5.0	64	196	167	691	88	25	11	6.0	3.4	2.0
14	2.4	17	58	1,270	155	864	82	29	10	6.0	3.4	2.0
15	2.6	19	56	1,810	148	543	81	30	9.8	5.8	3.2	2.1
16	2.7	13	52	782	483	1,410	78	25	8.9	5.8	3.2	1.7
17	2.9	11	51	447	1,340	787	72	22	8.5	5.5	3.2	1.5
18	3.0	12	160	301	646	539	71	22	7.9	5.5	3.0	1.6
19	3.0	11	125	229	1,400	416	67	20	7.5	5.3	3.0	1.5
20	3.2	11	92	186	1,680	349	63	20	7.2	5.3	3.2	1.5
21	3.2	11	76	160	1,430	303	61	20	7.0	5.3	3.4	1.5
22	3.4	11	67	138	846	275	58	20	6.7	5.0	3.2	1.4
23	3.4	12	61	122	658	256	55	20	6.7	5.0	3.0	1.4
24	3.2	12	57	107	508	229	54	20	6.2	4.8	2.9	1.4
25	3.0	13	53	99	410	212	51	20	6.2	4.6	2.9	1.4
26	3.0	13	51	109	349	198	48	20	6.2	5.0	2.7	1.3
27	2.7	13	47	88	303	184	44	19	6.2	5.0	2.6	1.3
28	2.7	14	45	85	270	171	40	19	6.0	5.0	2.7	1.3
29	2.6	26	42	5,700	244	162	37	17	6.0	4.8	2.5	1.2
30	2.5	63	41	3,130	------	153	34	17	6.0	4.8	2.4	1.3
31	2.5	------	39	1,040	------	146	------	15	------	5.0	2.4	------
TOTAL	83.4	323.8	4,654	19,406	16,031	10,160	2,575	702	299.0	174.1	107.8	52.1
MEAN	2.69	10.8	150	626	553	328	85.8	22.6	9.97	5.62	3.48	1.74
MAX	3.4	63	778	5,700	1,680	1,410	178	32	16	6.7	5.3	2.2
MIN	1.7	2.5	34	31	148	128	34	15	6.0	4.6	2.4	1.2
AC-FT	165	642	9,230	38,490	31,800	20,150	5,110	1,390	593	345	214	103

CAL YR 1967 TOTAL 96,364.8 MEAN 264 MAX 12,900 MIN 1.6 AC-FT 191,100
WTR YR 1968 TOTAL 54,568.2 MEAN 149 MAX 5,700 MIN 1.2 AC-FT 108,200

11453500 PUTAH CREEK NEAR GUENOC, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.1	16	229	699	1,360	145	104	27	10	5.6	2.7
2	1.1	2.5	15	200	607	1,070	165	100	28	8.7	5.6	2.3
3	1.1	1.8	15	174	516	884	207	93	27	9.0	5.9	2.2
4	1.3	1.6	16	156	460	719	165	89	26	8.4	5.4	2.2
5	1.3	1.3	16	143	951	611	349	85	25	8.1	5.0	1.9
6	1.6	1.3	16	133	1,920	541	305	80	25	8.4	4.5	1.9
7	1.3	1.3	16	122	907	481	249	77	25	8.7	4.4	1.9
8	1.1	1.3	18	113	838	418	213	76	25	8.7	3.8	1.8
9	.92	1.3	24	106	4,360	382	202	74	24	8.1	3.7	1.3
10	.72	1.6	1,890	98	1,980	367	187	71	26	7.4	4.3	1.3
11	1.3	3.0	560	569	2,840	321	167	69	27	9.0	3.9	1.3
12	2.5	6.2	233	8,480	1,710	318	158	65	26	8.1	4.0	1.3
13	1.8	8.1	195	5,000	1,130	302	151	64	24	7.1	4.1	1.3
14	1.6	9.4	882	1,640	1,460	274	143	63	21	7.1	4.2	1.8
15	1.3	25	2,430	875	2,930	256	134	61	21	7.1	4.5	2.0
16	1.1	33	716	625	1,560	240	125	58	19	6.2	4.2	1.8
17	1.1	25	346	481	1,140	269	122	55	18	6.2	4.3	1.6
18	.72	20	242	940	925	243	116	52	17	5.9	4.4	1.8
19	.92	30	198	4,500	779	235	113	52	17	5.4	4.6	1.8
20	.92	27	160	5,650	671	233	106	49	16	4.8	4.4	1.8
21	.92	22	138	6,310	537	256	102	47	17	4.8	3.7	2.0
22	.92	20	120	2,750	485	229	97	45	17	4.2	3.5	1.8
23	.92	18	246	1,390	788	216	206	42	14	3.9	3.5	1.6
24	.92	17	1,830	1,070	1,110	205	261	39	14	3.9	3.7	1.3
25	.92	18	1,970	2,040	1,020	207	183	39	13	3.7	3.4	1.1
26	.92	17	944	3,790	811	224	152	38	12	3.7	3.1	1.1
27	.92	16	520	1,510	892	178	136	43	12	3.9	2.7	.92
28	.92	15	691	1,100	1,950	169	124	33	12	3.7	2.3	1.1
29	1.1	16	443	835	------	163	109	33	11	4.5	1.9	1.1
30	1.3	16	358	819	------	158	109	30	11	5.6	1.7	.92
31	1.3	------	269	663	------	154	------	29	------	4.8	2.2	------
TOTAL	36.06	376.8	15,533	52,511	35,976	11,683	5,001	1,855	597	199.1	122.5	48.94
MEAN	1.16	12.6	501	1,694	1,285	377	167	59.8	19.9	6.42	3.95	1.63
MAX	2.5	33	2,430	8,480	4,360	1,360	349	104	28	10	5.9	2.7
MIN	.72	1.1	15	98	460	154	97	29	11	3.7	1.7	.92
AC-FT	72	747	30,810	104,200	71,360	23,170	9,920	3,680	1,180	395	243	97

CAL YR 1968 TOTAL 65,452.86 MEAN 179 MAX 5,700 MIN .72 AC-FT 129,800
WTR YR 1969 TOTAL 123,939.40 MEAN 340 MAX 8,480 MIN .72 AC-FT 245,800

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.92	4.2	11	349	597	1,030	115	51	17	5.0	.40	.53
2	.72	4.2	11	244	511	505	110	48	16	5.0	.40	.37
3	.72	4.8	11	167	451	400	109	46	15	5.8	.40	.44
4	.72	5.1	11	155	406	1,000	106	44	14	5.8	.40	.14
5	1.1	8.4	11	141	360	717	102	43	13	5.3	.36	.09
6	1.3	13	11	131	328	522	101	43	13	5.0	.81	.28
7	1.3	12	11	125	301	447	98	38	12	5.0	.68	.93
8	1.1	12	14	526	277	451	89	36	13	4.6	.96	.14
9	1.1	12	14	4,260	312	391	88	36	14	3.3	1.6	.14
10	2.4	11	19	1,680	332	385	86	34	14	2.3	2.0	.09
11	105	11	149	891	224	331	85	35	13	1.7	1.8	.05
12	124	11	1,720	968	390	301	82	36	12	2.5	1.7	.04
13	87	11	794	2,560	1,990	277	82	34	12	3.1	.62	.91
14	9.2	11	253	5,800	922	248	85	30	12	3.0	.24	.98
15	8.4	11	169	2,240	620	240	85	30	13	2.0	1.0	.14
16	9.7	11	124	6,350	1,440	220	79	28	13	3.9	2.0	.07
17	6.5	10	111	2,500	1,460	206	79	27	13	3.9	1.6	.03
18	4.2	10	165	1,440	878	192	74	26	12	4.3	.57	.03
19	3.9	11	3,010	1,400	669	184	71	26	12	4.1	1.0	.02
20	3.2	11	2,710	1,990	561	176	69	26	10	3.9	1.5	.02
21	3.2	11	4,210	6,700	477	167	68	25	9.5	2.4	1.4	.02
22	3.2	11	1,160	4,060	413	164	67	24	8.5	.52	1.7	.12
23	3.4	11	2,550	8,750	365	157	64	23	8.2	.52	1.3	.20
24	3.4	11	4,310	6,640	333	151	62	22	8.2	.52	1.1	.03
25	3.4	11	1,200	2,380	306	144	60	22	7.9	.48	.77	.01
26	3.4	11	717	1,630	284	141	58	22	7.5	.48	.65	.02
27	3.4	11	508	2,860	260	134	60	22	7.2	.48	.29	.02
28	3.7	11	385	1,400	340	131	58	22	7.2	.44	.10	.01
29	3.7	11	388	1,050	------	126	56	21	6.0	.40	.03	.01
30	3.7	11	416	837	------	122	54	20	5.3	.40	.73	.24
31	3.9	------	377	701	------	118	------	19	------	.40	.66	------
TOTAL	410.88	304.7	25,550	70,925	15,807	9,778	2,402	959	338.5	86.54	28.77	6.12
MEAN	13.3	10.2	824	2,288	565	315	80.1	30.9	11.3	2.79	.93	.20
MAX	124	13	4,310	8,750	1,990	1,030	115	51	17	5.8	2.0	.98
MIN	.72	4.2	11	125	224	118	54	19	5.3	.40	.03	.01
AC-FT	815	604	50,680	140,700	31,350	19,390	4,760	1,900	671	172	57	12

CAL YR 1969 TOTAL 134,259.12 MEAN 368 MAX 8,480 MIN .72 AC-FT 266,300
WTR YR 1970 TOTAL 126,596.51 MEAN 347 MAX 8,750 MIN .01 AC-FT 251,100

11453550 HUNTING CREEK NEAR KNOXVILLE, CALIF.

LOCATION.--Lat 38°46'18", long 122°24'26", in NE¼SE¼ sec.28, T.11 N., R.5 W., Lake County, on right bank 2,400 ft upstream from mouth, 5.3 miles southwest of Knoxville, and 11.2 miles east of Middletown.

DRAINAGE AREA.--37.8 sq mi.

PERIOD OF RECORD.--July 1969 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 725 ft (from topographic map).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for July 1969 to September 1970 are contained in the following table:

Annual maximum discharge (*), peak discharges above base (1,000 cfs), and annual minimum discharge

	Maximum				Minimum daily	
Wtr yr	Date	Time	Discharge	G.H.	Date	Discharge
1969	July 1, 1969	-	3.1	-	Sept.14, 15, 28-30, 1969	.62
1970	Dec. 20, 1969	-	1,300	-	Oct. 1, 1969	.62
	Dec. 24, 1969	0200	1,830	6.21		
	Jan. 9, 1970	1600	2,770	7.06		
	Jan. 14, 1970	1000	2,190	6.57		
	Jan. 21, 1970	0300	1,890	6.27		
	Jan. 23, 1970	2130	*4,500	8.30		
	Feb. 13, 1970	-	1,150	-		

Period of record: Maximum discharge, 4,500 cfs Jan. 23, 1970 (gage height, 8.30 ft), from rating curve extended above 260 cfs on basis of slope-area measurement of peak flow; minimum daily, 0.62 cfs Sept. 14, 15, Sept. 28 to Oct. 1, 1969.

REMARKS.--Records good except those for period of no gage-height record Feb. 11 to Mar. 12, 1970, which are fair. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, JULY TO SEPTEMBER 1969

DAY	JUL	AUG	SEP	DAY	JUL	AUG	SEP	DAY	JUL	AUG	SEP	DAY	JUL	AUG	SEP
1	3.1	1.5	.87	9	2.1	1.1	.76	17	1.7	.87	.71	25	1.5	.87	.66
2	2.5	1.4	.87	10	2.1	1.0	.71	18	1.7	.93	.66	26	1.5	.87	.66
3	2.4	1.3	.81	11	2.2	.93	.66	19	1.6	.93	.71	27	1.6	.81	.66
4	2.3	1.2	.81	12	2.0	.93	.66	20	1.6	.93	.71	28	1.6	.87	.62
5	2.2	1.1	.81	13	1.7	.93	.66	21	1.5	.87	.71	29	1.5	.87	.62
6	2.2	1.1	.81	14	1.7	.87	.62	22	1.5	.87	.71	30	1.5	.87	.62
7	2.2	1.1	.76	15	1.7	.87	.62	23	1.5	.87	.66	31	1.4	.87	
8	2.2	1.1	.81	16	1.7	.81	.66	24	1.5	.87	.66				
TOTAL													57.5	30.41	21.27
MEAN													1.85	.98	.71
MAX													3.1	1.5	.87
MIN													1.4	.81	.62
AC-FT													114	60	42

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.62	1.0	1.2	10	97	135	25	12	6.2	3.5	1.5	.94
2	.66	1.0	1.3	8.8	87	60	24	12	5.7	3.1	1.4	.86
3	.76	1.0	1.3	8.3	82	48	23	12	5.4	2.9	1.3	.86
4	.81	1.0	1.3	7.7	78	260	23	11	5.1	2.9	1.3	1.1
5	.87	1.8	1.2	7.1	72	100	22	11	4.6	2.6	1.3	.86
6	.87	1.7	1.1	6.7	68	66	22	12	4.9	2.4	1.3	.94
7	.93	1.4	1.3	6.7	65	55	22	12	4.6	2.4	1.2	.86
8	.93	1.3	4.0	83	61	54	21	11	5.4	2.4	1.2	.94
9	.93	1.3	3.3	1,040	58	70	20	12	8.5	2.4	1.1	.86
10	.93	1.2	7.8	202	55	64	20	11	7.1	2.4	1.1	1.0
11	.93	1.1	10	78	54	60	20	11	6.2	2.4	1.1	.79
12	.87	1.2	30	83	70	58	18	11	5.7	2.4	1.0	.79
13	.87	1.1	20	364	280	55	19	11	5.1	2.3	1.0	.79
14	.93	1.1	9.9	1,010	110	52	20	11	5.1	2.0	.94	.79
15	2.3	1.2	4.6	278	80	48	21	10	5.7	2.0	.94	.79
16	2.3	1.2	4.0	934	120	46	20	10	5.7	1.9	.94	.79
17	1.3	1.3	4.4	274	100	43	19	9.6	5.4	1.9	.94	.79
18	1.0	1.3	8.7	128	85	41	18	10	5.1	2.0	.94	.73
19	.87	1.3	140	136	65	39	17	10	4.9	1.7	.94	.73
20	.81	1.3	295	284	57	38	16	10	4.4	1.7	.86	.79
21	.81	1.3	250	1,120	49	38	17	10	3.9	1.6	.86	.94
22	.81	1.3	65	414	45	37	17	10	3.9	1.6	.86	1.2
23	.81	1.4	370	1,060	43	35	16	8.8	3.7	1.6	.94	1.2
24	.87	1.4	638	698	40	34	15	8.8	3.7	1.5	.94	1.0
25	.87	1.4	87	254	38	32	15	8.1	3.7	1.4	.86	.94
26	.93	1.4	42	200	36	30	15	8.1	3.7	1.4	.94	.94
27	.93	1.4	27	311	34	29	16	8.5	3.7	1.4	.94	.94
28	1.0	1.2	20	154	37	28	15	8.5	3.7	1.4	.94	.79
29	1.0	1.2	16	134	------	26	14	7.8	3.7	1.4	.94	.79
30	.93	1.2	13	118	------	27	13	7.5	3.7	1.3	.94	.79
31	.93	------	11	106	------	26	------	6.5	------	1.4	.94	------
TOTAL	30.38	38.0	2,089.4	9,518.3	2,066	1,734	563	312.2	148.2	63.3	32.40	26.53
MEAN	.98	1.27	67.4	307	73.8	55.9	18.8	10.1	4.94	2.04	1.05	.88
MAX	2.3	1.8	638	1,120	280	260	25	12	8.5	3.5	1.5	1.2
MIN	.62	1.0	1.1	6.7	34	26	13	6.5	3.7	1.3	.86	.73
AC-FT	60	75	4,140	18,880	4,100	3,440	1,120	619	294	126	64	53

WTR YR 1970 TOTAL 16,621.71 MEAN 45.5 MAX 1,120 MIN .62 AC-FT 32,970

11453570 ADAMS CREEK NEAR KNOXVILLE, CALIF.

LOCATION.--Lat 38°42'17", long 122°17'44", in NE¼NE¼ sec.21, T.10 N., R.4 W., Napa County, on left bank 20 ft downstream from road ford, 0.2 mile upstream from mouth, 8.8 miles southeast of Knoxville, and 18 miles southeast of Middletown.

DRAINAGE AREA.--7.42 sq mi.

PERIOD OF RECORD.--October 1969 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 480 ft (from topographic map).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water year 1970 are contained in the following table:

Annual maximum discharge (*), peak discharges above base (100 cfs), and annual minimum discharge

	Maximum				Minimum daily	
Wtr yr	Date	Time	Discharge	G.H.	Date	Discharge
1970	Dec. 20, 1969	0800	179	2.96	Sept. 20-30, 1970	0
	Dec. 23, 1969	2100	186	2.99		
	Jan. 9, 1970	1600	305	3.46		
	Jan. 16, 1970	0600	531	4.21		
	Jan. 21, 1970	0130	260	3.30		
	Jan. 23, 1970	2200	*745	4.85		
	Feb. 13, 1970	1000	173	2.93		
	Mar. 4, 1970	1200	134	2.74		

REMARKS.--Records good. No storage or diversion above station. Discharge measurements of 0.05 and 0.01 cfs were made Sept. 2, 30, 1969, respectively.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.07	.10	1.1	16	20	3.6	3.3	1.3	.25	.07	.02
2	.02	.06	.11	1.1	13	7.5	3.6	3.3	1.1	.19	.07	.02
3	.02	.07	.11	.98	12	7.5	4.0	3.0	1.1	.18	.07	.02
4	.02	.07	.11	1.1	12	35	4.0	3.3	1.1	.17	.06	.02
5	.02	.49	.10	1.1	11	13	3.6	3.3	1.1	.16	.06	.02
6	.02	.19	.11	1.1	9.9	11	3.6	3.3	1.1	.16	.06	.02
7	.02	.15	.11	1.1	9.3	9.9	3.3	3.3	1.3	.16	.05	.02
8	.02	.15	.31	3.0	8.7	9.9	3.3	3.3	1.8	.15	.05	.02
9	.02	.13	.25	83	8.1	13	3.6	3.3	2.5	.16	.05	.02
10	.02	.12	.69	16	8.1	13	3.6	3.0	2.0	.16	.05	.02
11	.02	.11	.82	5.9	8.1	11	3.6	2.8	1.5	.17	.05	.01
12	.02	.11	2.7	5.9	9.9	11	3.3	2.8	1.3	.17	.05	.01
13	.02	.12	1.7	37	46	9.3	3.6	2.8	1.1	.16	.05	.01
14	.04	.13	.69	101	13	8.7	3.6	2.5	1.1	.14	.05	.01
15	.03	.15	.59	30	9.9	7.5	4.0	2.3	1.3	.13	.05	.01
16	.05	.13	.49	111	19	8.1	4.0	2.3	1.1	.13	.05	.01
17	.07	.11	.49	27	16	7.0	4.0	2.0	.97	.13	.04	.01
18	.07	.10	.82	14	15	6.5	3.6	2.0	.97	.13	.04	.01
19	.07	.12	15	15	8.1	6.5	3.6	2.0	.97	.12	.04	.01
20	.07	.15	46	39	8.1	6.0	3.6	2.0	.82	.11	.04	0
21	.06	.15	30	129	7.5	5.6	4.0	2.0	.69	.10	.04	0
22	.06	.15	4.5	44	7.0	6.0	4.0	2.0	.58	.09	.04	0
23	.06	.13	42	112	7.0	5.2	4.0	2.0	.58	.09	.04	0
24	.07	.13	53	60	7.0	4.8	4.0	1.8	.69	.09	.03	0
25	.07	.15	6.4	36	6.5	4.8	3.6	1.8	.69	.09	.03	0
26	.08	.13	3.0	33	6.5	4.8	3.6	2.0	.58	.09	.03	0
27	.08	.12	2.5	43	6.5	4.4	3.6	2.3	.48	.09	.03	0
28	.09	.11	2.0	27	7.0	4.8	3.6	2.0	.48	.09	.03	0
29	.08	.11	1.5	22	------	4.4	3.3	1.8	.40	.09	.03	0
30	.07	.10	1.3	20	------	4.0	3.3	1.5	.32	.07	.02	0
31	.07	------	1.1	17	------	4.0	------	1.3	------	.07	.02	------
TOTAL	1.44	4.01	218.60	1,038.38	316.2	274.2	110.1	76.4	31.02	4.09	1.39	.29
MEAN	.047	.13	7.05	33.5	11.3	8.85	3.67	2.46	1.03	.13	.045	.010
MAX	.09	.49	53	129	46	35	4.0	3.3	2.5	.25	.07	.02
MIN	.01	.06	.10	.98	6.5	4.0	3.3	1.3	.32	.07	.02	0
AC-FT	2.9	8.0	434	2,060	627	544	218	152	62	8.1	2.8	.6

WTR YR 1970 TOTAL 2,076.12 MEAN 5.69 MAX 129 MIN 0 AC-FT 4,120

11453580 NEVADA CREEK NEAR KNOXVILLE, CALIF.

LOCATION.--Lat 38°42'42", long 122°17'31", in NW¼SW¼ sec.15, T.10 N., R.4 W., Napa County, on right bank 150 ft downstream from road ford, 0.6 mile upstream from Adams Creek, 8.4 miles southeast of Knoxville, and 18 miles southeast of Middletown.

DRAINAGE AREA.--7.06 sq mi.

PERIOD OF RECORD.--September 1969 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 500 ft (from topographic map).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for September 1969 to September 1970 are contained in the following table:

Annual maximum discharge (*), peak discharges above base (100 cfs), and annual minimum discharge

Wtr yr	Date	Maximum Time	Discharge	G.H.	Minimum daily Date	Discharge
1969	-	-	-	-	Sept. 17, 26, 27, 29, 1969	0
1970	Dec. 20, 1969	0800	129	4.01	Many days	0
	Dec. 24, 1969	0200	204	4.57		
	Jan. 9, 1970	1700	351	5.49		
	Jan. 14, 1970	0100	357	5.52		
	Jan. 16, 1970	0600	600	-		
	Jan. 21, 1970	0200	303	-		
	Jan. 23, 1970	2130	*841	7.75		
	Jan. 27, 1970	0200	139	3.90		
	Feb. 13, 1970	1000	189	-		
	Mar. 4, 1970	1200	151	-		

Period of record: Maximum discharge, 841 cfs Jan. 23 (gage height, 7.75 ft), from rating curve extended above 34 cfs on basis of slope-area measurement of peak flow; no flow for many days.

REMARKS.--Records good. No gage-height record Feb. 4 to Mar. 19, 1970. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, SEPTEMBER 1969

DAY	SEP	DAY	SEP	DAY	SEP	DAY	SEP	DAY	SEP	DAY	SEP	DAY	SEP	DAY	SEP
1	.02	5	.02	9	.01	13	.01	17	0	21	.01	25	.01	29	0
2	.02	6	.02	10	.01	14	.01	18	.01	22	.01	26	0	30	.01
3	.01	7	.02	11	.01	15	.01	19	.01	23	.01	27	0		
4	.02	8	.01	12	.01	16	.01	20	.01	24	.01	28	.01		

TOTAL	.32
MEAN	.011
MAX	.02
MIN	0
AC-FT	.6

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.02	0	.93	12	21	3.3	1.4	.19	.11	.06	.03
2	.01	.02	0	.80	11	7.0	3.3	1.3	.19	.10	.06	.03
3	.01	.02	0	.80	11	6.4	3.1	1.3	.16	.10	.06	.03
4	.01	.02	0	.80	11	35	2.9	1.2	.16	.10	.06	.03
5	.01	.03	0	.68	10	12	3.1	1.2	.16	.09	.06	.03
6	.01	.02	0	.68	9.0	10	3.1	1.3	.16	.09	.06	.03
7	.01	.02	0	.74	8.3	8.8	2.7	1.4	.13	.09	.06	.02
8	.01	.02	0	3.4	7.5	8.6	2.7	1.3	.16	.09	.06	.02
9	.01	.02	0	99	7.0	13	2.7	1.3	.16	.08	.06	.01
10	.01	.02	.01	22	7.0	12	2.5	1.1	.19	.08	.06	.01
11	.01	.02	.01	10	7.0	10	2.5	1.1	.19	.08	.05	.01
12	.01	.02	.02	9.2	9.3	10	2.4	1.1	.19	.08	.05	.01
13	.01	.02	0	47	48	9.0	2.5	1.1	.22	.07	.05	0
14	.01	.02	0	133	17	8.2	2.7	.96	.22	.07	.05	0
15	.04	.02	0	37	12	7.5	2.7	.89	.19	.07	.05	0
16	.02	.02	0	140	20	7.9	2.5	.76	.19	.07	.05	0
17	.02	.02	0	40	16	7.1	2.4	.70	.19	.07	.05	0
18	.02	.02	.02	19	14	6.5	2.0	.70	.19	.07	.05	0
19	.02	.02	14	20	8.5	5.8	1.9	.70	.16	.06	.05	0
20	.02	.02	37	50	7.5	5.9	1.9	.70	.16	.06	.05	0
21	.01	.02	33	160	7.1	5.6	1.9	.65	.16	.06	.05	0
22	.02	.02	4.1	56	6.7	5.3	1.9	.60	.13	.07	.05	0
23	.02	.02	41	138	6.5	5.0	1.9	.55	.13	.07	.05	0
24	.02	.02	61	85	6.3	4.6	1.9	.46	.13	.07	.05	0
25	.02	0	6.2	32	6.1	4.3	1.8	.38	.13	.07	.04	0
26	.02	0	3.1	25	5.8	4.0	1.9	.38	.13	.07	.04	0
27	.02	0	2.2	47	5.6	3.7	1.9	.42	.13	.07	.04	0
28	.02	0	1.6	24	6.6	3.7	1.8	.42	.11	.06	.04	0
29	.02	0	1.3	18	------	3.7	1.6	.34	.11	.06	.04	0
30	.02	0	1.1	16	------	3.5	1.5	.30	.11	.06	.03	0
31	.02	------	1.1	14	------	3.3	------	.22	------	.06	.03	------
TOTAL	.49	.49	206.76	1,250.03	303.8	258.4	71.0	26.23	4.83	2.35	1.56	.26
MEAN	.016	.016	6.67	40.3	10.9	8.34	2.37	.85	.16	.076	.050	.009
MAX	.04	.03	61	160	48	35	3.3	1.4	.22	.11	.06	.03
MIN	.01	0	0	.68	5.6	3.3	1.5	.22	.11	.06	.03	0
AC-FT	1.0	1.0	410	2,480	603	513	141	52	9.6	4.7	3.1	.5

WTR YR 1970 TOTAL 2,126.20 MEAN 5.83 MAX 160 MIN 0 AC-FT 4,220

11453600 POPE CREEK NEAR POPE VALLEY, CALIF.

LOCATION.--Lat 38°37'48", long 122°19'52", in SW¼ sec.17, T.9 N., R.4 W., Napa County, on left bank 0.2 mile upstream from Lake Berryessa, 0.7 mile downstream from Maxwell Creek, and 5.2 miles east of Pope Valley.

DRAINAGE AREA.--78.3 sq mi.

PERIOD OF RECORD.--December 1960 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 450 ft (from topographic map).

AVERAGE DISCHARGE.--9 years (1961-70), 97.5 cfs (70,640 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 5, 1966	7,230	13.96	Many days	0
1967	Jan. 21, 1967	a4,510	-	do.	0
1968	Jan. 29, 1968	5,730	12.54	do.	0
1969	Jan. 26, 1969	6,840	13.19	do.	0
1970	Jan. 23, 1970	11,600	16.65	Oct. 1-7, 13, 1969	.10

a Maximum daily

Period of record: Maximum discharge, 18,000 cfs Jan. 31, 1963 (gage height, 19.79 ft), from rating curve extended above 7,700 cfs; no flow for many days in 1960-68.

REMARKS.--No gage-height record Jan. 13-26, 1967. No regulation or diversion above station.

COOPERATION.--Records furnished by California Department of Water Resources and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.20	11	149	562	78	21	8.2	2.8	.40		
2	.10	.20	9.6	100	260	69	20	8.8	2.9	.30		
3	.10	.20	8.0	121	458	61	19	7.3	2.7	.40		
4	.10	.20	7.2	2,740	730	57	18	8.1	3.0	.40		
5	.10	.20	6.7	3,680	315	54	18	7.6	3.3	.30		
6	.10	.20	6.5	786	210	52	17	7.7	3.8	.20		
7	.10	.20	6.4	365	163	49	17	7.6	4.0	.20		
8	.10	.30	6.1	243	134	46	16	6.9	3.7	.20		
9	.10	.40	6.2	178	115	51	18	7.3	3.2	.20		
10	.10	.40	5.7	139	95	138	30	8.3	2.8	.20		
11	.10	.40	6.4	115	84	80	37	7.6	2.5	.20		
12	.10	.70	8.8	99	79	63	47	7.0	2.2	.20		
13	.10	3.2	8.1	87	71	62	30	6.4	2.2	.20		
14	.10	121	6.8	79	65	56	22	6.0	2.2	.20		
15	.10	73	6.3	73	60	51	19	5.7	1.8	.20		
16	.10	23	5.7	64	54	49	17	5.1	1.6	.20		
17	.10	64	5.4	60	52	45	16	4.8	1.6	.20		
18	.10	125	5.2	57	50	43	16	4.2	1.5	.10		
19	.10	49	5.2	52	196	41	14	4.1	1.3	.20		
20	.10	24	5.2	47	117	38	14	3.7	1.1	.20		
21	.10	15	5.1	43	81	35	13	3.6	1.0	.30		
22	.10	11	4.7	43	73	33	13	3.8	.90	.20		
23	.10	8.9	4.7	41	88	31	12	3.6	.80	.20		
24	.10	127	74	40	91	30	11	3.3	.90	.20		
25	.10	82	166	38	109	28	11	2.8	.80	.20		
26	.10	37	67	37	162	27	10	2.3	.70	.20		
27	.10	27	41	37	104	25	9.9	2.4	.60	.10		
28	.10	20	792	36	87	24	9.8	2.6	.30	.10		
29	.10	16	412	251	------	24	9.5	3.0	.20	.10		
30	.20	13	245	491	------	23	9.3	3.6	.40	.10		
31	.20	------	317	195	------	22	------	3.1	------	0		------
TOTAL	3.30	842.70	2,265.0	10,486	4,665	1,485	534.5	166.5	56.80	6.40	0	0
MEAN	.11	28.1	73.1	338	167	47.9	17.8	5.37	1.89	.21	0	0
MAX	.20	127	792	3,680	730	138	47	8.8	4.0	.40	0	0
MIN	.10	.20	4.7	36	50	22	9.3	2.3	.20	0	0	0
AC-FT	6.5	1,670	4,490	20,800	9,250	2,950	1,060	330	113	13	0	0

CAL YR 1965 TOTAL 25,073.30 MEAN 68.7 MAX 4,810 MIN 0 AC-FT 49,730
WTR YR 1966 TOTAL 20,511.20 MEAN 56.2 MAX 3,680 MIN 0 AC-FT 40,680

11453600 POPE CREEK NEAR POPE VALLEY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	109	19	511	43	230	113	31	6.0	1.2	.60
2		0	1,260	18	351	42	169	104	104	5.5	1.4	.60
3		0	480	17	266	41	148	96	80	5.8	1.3	1.0
4		0	1,260	16	220	39	131	90	42	5.9	1.2	1.0
5		0	1,480	16	186	37	155	85	34	5.3	1.1	1.0
6		0	699	15	160	35	784	81	32	5.0	1.1	1.2
7		0	331	14	145	34	438	75	30	4.5	1.0	1.0
8		0	204	15	132	34	266	70	28	4.1	.90	1.0
9		.10	161	15	122	33	200	68	25	7.2	.90	.90
10		.10	331	14	113	50	284	68	24	4.3	.80	1.2
11		0	182	14	104	215	269	63	23	2.9	.70	1.0
12		0	134	15	97	379	184	60	22	3.0	.70	.80
13		0	112	14	93	302	154	55	21	3.2	.60	.80
14		.10	93	14	86	208	139	52	19	3.0	.60	.90
15		.80	76	14	80	221	134	49	18	2.7	.50	.90
16		91	65	14	77	1,590	126	48	17	2.6	.70	1.0
17		10	57	14	74	419	502	44	16	2.7	1.2	.80
18		3.9	51	14	70	254	650	42	16	2.6	1.3	1.2
19		282	46	14	65	192	484	40	16	2.4	1.0	1.0
20		615	43	930	60	209	288	39	16	2.2	.90	.80
21		183	39	4,510	56	212	380	36	15	2.0	.80	.80
22		108	35	1,000	55	168	328	35	14	1.9	.80	.90
23		39	32	460	54	206	392	33	13	1.8	.60	1.0
24		23	30	652	52	156	315	31	12	1.8	.60	.90
25		16	29	398	60	135	242	30	12	1.7	.60	.80
26		13	27	486	51	124	195	28	11	1.5	.60	.70
27		11	24	589	46	112	183	27	11	1.6	.60	.50
28		57	23	664	44	108	157	26	9.7	1.5	.60	.50
29		185	23	2,260	------	103	139	27	8.8	1.4	.40	.50
30		57	22	1,720	------	460	123	25	7.7	1.3	.40	.50
31		------	20	959	------	444	------	26	------	1.2	.50	------
TOTAL	0	1,695.00	7,478	14,914	3,430	6,605	8,189	1,666	728.2	98.6	25.60	25.80
MEAN	0	56.5	241	481	123	213	273	53.7	24.3	3.18	.83	.86
MAX	0	615	1,480	4,510	511	1,590	784	113	104	7.2	1.4	1.2
MIN	0	0	20	14	44	33	123	25	7.7	1.2	.40	.50
AC-FT	0	3,360	14,830	29,580	6,800	13,100	16,240	3,300	1,440	196	51	51

CAL YR 1966 TOTAL 26,573.20 MEAN 72.8 MAX 3,680 MIN 0 AC-FT 52,710
WTR YR 1967 TOTAL 44,855.20 MEAN 123 MAX 4,510 MIN 0 AC-FT 88,970

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	.90	4.2	1.9	225	69	52	11	3.2	.50	.30	
2	.90	.90	2.7	1.9	329	64	50	11	2.7	.60	.20	
3	1.2	.90	97	1.7	247	57	43	11	2.6	.60	.20	
4	.60	.90	96	1.6	177	54	40	11	2.1	.60	.20	
5	.90	.70	102	1.6	142	51	39	11	2.3	.60	.20	
6	.80	1.1	22	1.7	118	49	36	10	3.0	.60	.10	
7	.70	1.2	79	1.7	102	50	34	11	2.7	.50	.10	
8	.80	1.2	28	1.9	90	54	31	14	2.2	.50	.10	
9	.70	1.3	14	2.9	81	45	30	14	2.2	.50	.10	
10	.60	1.3	9.4	620	73	41	29	12	2.1	.50	.10	
11	.60	1.3	6.8	75	64	39	28	11	1.9	.40	.10	
12	.60	1.3	5.1	35	60	265	27	11	1.9	.40	0	
13	.50	1.6	3.7	30	56	315	25	11	2.1	.30	0	
14	.40	2.7	3.0	285	52	270	24	13	2.2	.30	0	
15	.30	2.3	2.7	572	50	179	24	11	2.2	.30	0	
16	.30	1.9	2.4	109	71	722	22	10	2.0	.30	0	
17	.30	1.7	2.7	50	347	300	21	9.0	1.9	.40	0	
18	.40	1.6	12	33	200	196	21	8.7	1.8	.40	0	
19	.40	1.5	14	25	904	145	20	8.5	1.6	.40	0	
20	.40	1.4	8.5	20	779	118	20	7.9	1.5	.40	0	
21	.40	1.3	6.1	17	643	100	19	7.4	1.4	.50	0	
22	.50	1.1	5.0	15	317	90	18	7.3	1.3	.50	0	
23	.50	1.2	4.4	13	247	81	17	7.3	1.2	.50	0	
24	.50	1.3	3.9	12	185	73	17	6.7	1.1	.50	0	
25	.70	1.2	3.4	11	142	68	16	6.7	.90	.50	0	
26	1.5	1.1	3.0	10	114	63	14	6.4	.80	.50	0	
27	.60	1.1	2.6	9.7	94	59	13	5.8	.80	.50	0	
28	.70	1.3	2.3	9.6	83	55	12	5.0	.70	.40	0	
29	.70	3.8	2.1	2,670	73	52	12	4.6	.60	.40	0	
30	.60	6.0	2.0	1,530	------	49	11	4.2	.50	.40	0	
31	.70	------	1.9	360	------	44	------	3.7	------	.30	0	------
TOTAL	19.30	47.10	551.9	6,528.2	6,065	3,817	765	282.2	53.50	14.10	1.70	0
MEAN	.62	1.57	17.8	211	209	123	25.5	9.10	1.78	.45	.055	0
MAX	1.5	6.0	102	2,670	904	722	52	14	3.2	.60	.30	0
MIN	.30	.70	1.9	1.6	50	39	11	3.7	.50	.30	0	0
AC-FT	38	93	1,090	12,950	12,030	7,570	1,520	560	106	28	3.4	0

CAL YR 1967 TOTAL 36,300.50 MEAN 99.5 MAX 4,510 MIN .30 AC-FT 72,000
WTR YR 1968 TOTAL 18,145.00 MEAN 49.6 MAX 2,670 MIN 0 AC-FT 35,990

11453600 POPE CREEK NEAR POPE VALLEY, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	2.2	2.6	57	310	757	57	31	8.9	2.4	.90	.30
2	0	5.6	2.5	47	245	583	64	30	9.0	2.5	.90	.30
3	0	24	2.4	40	203	454	80	28	8.9	2.4	.90	.20
4	0	9.5	3.0	36	177	324	62	27	8.6	2.4	1.0	.20
5	0	4.9	2.6	32	565	269	117	25	8.7	2.2	.90	.20
6	0	3.1	2.4	29	1,070	234	118	24	8.5	2.2	.80	.20
7	0	2.5	2.3	27	364	207	96	24	7.3	2.3	.80	.20
8	0	1.9	3.3	25	315	183	79	24	8.4	2.4	.80	.30
9	0	.80	14	23	1,890	176	73	22	9.3	2.2	.80	.30
10	0	.20	498	22	737	201	68	22	9.4	2.1	.70	.30
11	0	1.1	116	291	1,250	152	61	20	8.5	2.0	.70	.30
12	0	1.9	41	1,450	721	177	57	19	8.5	2.1	.60	.30
13	0	1.0	36	3,500	428	160	54	19	7.8	2.1	.60	.30
14	0	2.5	293	596	642	136	52	19	7.1	1.9	.50	.20
15	0	28	897	273	1,860	124	48	19	6.7	1.9	.50	.20
16	0	17	188	193	754	117	44	18	6.5	1.8	.50	.20
17	0	9.6	80	153	499	132	42	18	5.8	1.7	.50	.20
18	0	11	52	678	426	121	41	17	5.2	1.6	.50	.30
19	0	21	41	2,820	340	109	39	16	5.2	1.5	.40	.30
20	0	12	32	3,270	283	110	38	16	5.2	1.3	.50	.30
21	0	8.2	26	3,390	243	114	36	15	5.4	1.2	.50	.30
22	0	6.2	22	1,150	222	100	35	15	5.5	1.3	.40	.30
23	0	4.9	30	516	511	90	69	14	3.9	1.2	.30	.30
24	0	4.7	828	465	758	83	96	13	5.4	1.1	.30	.30
25	.20	3.8	917	826	736	79	55	13	2.9	1.0	.30	.30
26	.50	3.7	329	2,210	494	75	44	13	2.9	1.0	.30	.30
27	.80	3.2	140	664	402	72	39	14	3.3	1.0	.30	.30
28	1.0	2.8	296	511	1,150	68	36	13	3.6	.90	.30	.30
29	2.0	2.6	152	410	------	64	34	11	6.3	.90	.30	.30
30	2.4	2.7	98	566	------	62	33	10	2.9	.90	.30	.30
31	2.0	------	71	310	------	59	------	9.6	------	.90	.30	------
TOTAL	8.90	202.60	5,218.1	24,580	17,595	5,592	1,767	578.6	195.6	52.40	17.40	8.10
MEAN	.29	6.75	168	793	628	180	58.9	18.7	6.52	1.69	.56	.27
MAX	2.4	28	917	3,500	1,890	757	118	31	9.4	2.5	1.0	.30
MIN	0	.20	2.3	22	177	59	33	9.6	2.9	.90	.30	.20
AC-FT	18	402	10,350	48,750	34,900	11,090	3,500	1,150	388	104	35	16

CAL YR 1968 TOTAL 22,956.30 MEAN 62.7 MAX 2,670 MIN 0 AC-FT 45,530
WTR YR 1969 TOTAL 55,815.70 MEAN 153 MAX 3,500 MIN 0 AC-FT 110,700

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.40	1.3	58	241	615	39	18	5.8	1.9	.50	.30
2	.10	.30	1.4	52	211	227	39	17	5.4	1.8	.50	.30
3	.10	.30	1.4	48	191	170	37	16	5.1	1.7	.50	.30
4	.10	.30	1.4	45	176	707	36	15	5.1	1.6	.50	.30
5	.10	.80	1.4	42	160	395	35	15	4.8	1.4	.50	.30
6	.10	1.4	1.5	39	150	246	34	15	4.3	1.3	.50	.30
7	.10	1.3	1.6	39	141	205	32	15	4.3	1.3	.50	.30
8	.20	1.1	1.8	82	134	214	31	15	5.1	1.3	.50	.30
9	.20	.80	2.3	1,660	127	200	31	15	6.1	1.3	.40	.30
10	.20	.60	6.8	810	121	213	30	14	5.8	1.3	.40	.30
11	.20	.60	37	334	119	166	29	13	4.3	1.1	.40	.20
12	.20	.70	201	300	171	149	28	14	3.8	1.1	.40	.20
13	.10	.80	143	846	879	133	28	14	3.8	1.1	.40	.20
14	.20	.80	36	3,270	401	118	28	12	3.5	1.0	.40	.20
15	4.6	.90	27	857	250	110	29	12	4.3	1.0	.40	.20
16	5.1	1.0	18	3,750	505	101	29	11	4.3	.90	.40	.20
17	2.7	1.1	15	1,530	651	92	29	10	3.3	.90	.40	.20
18	1.7	1.0	19	620	360	87	26	9.5	2.9	.80	.40	.20
19	1.0	.90	621	598	261	82	25	10	2.9	.80	.40	.20
20	.70	.90	1,440	1,190	218	75	23	11	2.7	.70	.40	.20
21	.60	1.0	1,420	5,120	187	72	23	10	2.3	.70	.40	.20
22	.50	1.0	286	2,180	166	68	23	9.1	2.3	.70	.40	.20
23	.50	1.2	1,450	3,380	152	64	22	8.7	2.1	.60	.40	.20
24	.50	1.3	2,390	3,180	142	61	21	8.3	2.2	.60	.40	.20
25	.50	1.3	399	977	131	56	21	7.9	2.4	.50	.40	.20
26	.50	1.3	207	644	123	53	20	7.5	2.1	.50	.30	.20
27	.50	1.3	138	1,290	115	49	21	7.5	2.0	.50	.30	.20
28	.50	1.3	103	583	125	48	20	7.1	2.2	.50	.30	.20
29	.50	1.3	83	423	------	46	19	6.8	2.1	.50	.30	.20
30	.40	1.3	70	339	------	43	18	6.4	2.0	.50	.30	.20
31	.40	------	61	278	------	40	------	6.1	------	.50	.30	------
TOTAL	23.20	28.30	9,184.9	34,564	6,608	4,905	826	356.9	109.3	30.40	12.60	7.00
MEAN	.75	.94	296	1,115	236	158	27.5	11.5	3.64	.98	.41	.23
MAX	5.1	1.4	2,390	5,120	879	707	39	18	6.1	1.9	.50	.30
MIN	.10	.30	1.3	39	115	40	18	6.1	2.0	.50	.30	.20
AC-FT	46	56	18,220	68,560	13,110	9,730	1,640	708	217	60	25	14

CAL YR 1969 TOTAL 59,622.50 MEAN 163 MAX 3,500 MIN .10 AC-FT 118,300
WTR YR 1970 TOTAL 56,655.60 MEAN 155 MAX 5,120 MIN .10 AC-FT 112,400

11453900 LAKE BERRYESSA NEAR WINTERS, CALIF.

LOCATION.--Lat 38°30'48", long 122°06'13", in SE¼NW¼ sec.29, T.8 N., R.2 W., Napa County, near center of Monticello Dam on Putah Creek, 7.4 miles west of Winters.

DRAINAGE AREA.--566 sq mi.

PERIOD OF RECORD.--January 1957 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Bureau of Reclamation).

EXTREMES.--Maximums and minimums (contents in acre-feet, elevation in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum		
Wtr yr	Date	Contents	Elevation	Date	Contents	Elevation
1966	Feb. 26-28, Mar. 1, 1966	1,617,000	440.76	Sept.30, 1966	1,386,100	428.46
1967	Jan. 31, 1967	1,679,600	443.97	Nov. 11, 13, 1966	1,343,800	426.12
1968	Mar. 17, 18, 1968	1,626,300	441.24	Sept.30, 1968	1,372,700	427.72
1969	Feb. 15, 1969	1,679,000	443.94	Dec. 8, 1968	1,339,700	425.89
1970	Jan. 24, 1970	1,733,000	446.67	Sept.30, 1970	1,383,000	428.28

Period of record: Maximum contents, 1,733,000 acre-ft Jan. 24, 1970 (elevation, 446.67 ft); minimum since irrigation pool first filled, 1,077,900 acre-ft Oct. 10, 11, 1962 (elevation, 410.60 ft).

REMARKS.--Reservoir is formed by a concrete arch-gravity dam, completed November 1956. Usable capacity, 1,592,000 acre-ft between elevations 253.25 (invert of outlet valves) and 440 ft (crest of glory-hole spillway) above mean sea level. Dead storage, 10,340 acre-ft. Water is released down Putah Creek and is diverted into Putah South diversion canal for irrigation of about 46,000 acres in the lower Sacramento Valley. Releases for irrigation began in May 1959. Records, including extremes, represent total contents.

COOPERATION.--Records furnished by Bureau of Reclamation and rounded to Geological Survey standards.

REVISIONS (WATER YEARS).--WSP 1735: 1958-60. WSP 1931: Drainage area.

Capacity table, water years 1966-70 (elevation, in feet, and contents, in acre-feet)

420	1,236,000	430	1,414,000	450	1,800,000

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,428	1,404	1,422	1,455	1,580	1,617	1,610	1,590	1,551	1,509	1,464	1,424
2	1,427	1,404	1,422	1,455	1,583	1,616	1,609	1,589	1,549	1,507	1,463	1,423
3	1,426	1,404	1,422	1,456	1,589	1,615	1,609	1,588	1,548	1,506	1,462	1,422
4	1,425	1,403	1,422	1,495	1,599	1,615	1,609	1,587	1,546	1,504	1,460	1,421
5	1,424	1,403	1,421	1,536	1,604	1,615	1,608	1,585	1,545	1,502	1,459	1,420
6	1,423	1,403	1,421	1,546	1,606	1,615	1,608	1,584	1,544	1,501	1,458	1,419
7	1,423	1,402	1,421	1,550	1,608	1,615	1,608	1,582	1,543	1,499	1,456	1,418
8	1,422	1,402	1,421	1,553	1,609	1,614	1,607	1,581	1,542	1,498	1,455	1,417
9	1,421	1,402	1,422	1,555	1,611	1,614	1,607	1,580	1,541	1,496	1,454	1,416
10	1,420	1,402	1,422	1,557	1,611	1,615	1,607	1,578	1,540	1,495	1,452	1,414
11	1,419	1,402	1,422	1,558	1,612	1,614	1,607	1,578	1,539	1,493	1,450	1,412
12	1,419	1,402	1,422	1,558	1,612	1,615	1,607	1,577	1,538	1,492	1,449	1,410
13	1,418	1,404	1,422	1,560	1,612	1,615	1,606	1,576	1,537	1,490	1,447	1,408
14	1,417	1,407	1,422	1,561	1,612	1,615	1,606	1,574	1,536	1,489	1,446	1,407
15	1,416	1,408	1,422	1,561	1,612	1,614	1,605	1,573	1,534	1,488	1,444	1,405
16	1,415	1,409	1,421	1,561	1,612	1,614	1,605	1,572	1,532	1,486	1,443	1,404
17	1,414	1,411	1,421	1,562	1,612	1,614	1,603	1,571	1,530	1,485	1,442	1,402
18	1,413	1,414	1,421	1,562	1,612	1,613	1,602	1,570	1,529	1,484	1,440	1,402
19	1,413	1,416	1,421	1,563	1,615	1,613	1,602	1,568	1,528	1,483	1,439	1,401
20	1,412	1,416	1,421	1,563	1,616	1,613	1,601	1,567	1,526	1,482	1,438	1,400
21	1,411	1,416	1,421	1,563	1,616	1,612	1,600	1,566	1,524	1,480	1,436	1,398
22	1,411	1,416	1,420	1,564	1,616	1,612	1,599	1,564	1,523	1,478	1,435	1,397
23	1,410	1,417	1,420	1,564	1,616	1,612	1,598	1,563	1,521	1,477	1,433	1,396
24	1,409	1,420	1,424	1,564	1,616	1,611	1,598	1,562	1,519	1,476	1,432	1,395
25	1,408	1,421	1,427	1,565	1,617	1,611	1,597	1,561	1,518	1,474	1,431	1,393
26	1,408	1,422	1,427	1,565	1,617	1,611	1,596	1,559	1,516	1,473	1,429	1,392
27	1,407	1,422	1,427	1,565	1,617	1,611	1,594	1,558	1,515	1,471	1,428	1,390
28	1,406	1,422	1,440	1,565	1,617	1,611	1,593	1,556	1,514	1,469	1,427	1,389
29	1,405	1,422	1,446	1,568	------	1,610	1,592	1,555	1,512	1,468	1,426	1,388
30	1,405	1,422	1,450	1,574	------	1,610	1,591	1,554	1,511	1,466	1,426	1,386
31	1,404	------	1,454	1,575	------	1,610	------	1,552	------	1,465	1,425	------
MAX	1,428	1,422	1,454	1,575	1,617	1,617	1,610	1,590	1,551	1,509	1,464	1,424
MIN	1,404	1,402	1,420	1,455	1,580	1,610	1,591	1,552	1,511	1,465	1,425	1,386
(†)	429.47	430.44	432.15	438.60	440.76	440.40	439.41	437.39	435.19	432.75	430.57	428.46
(‡)	-24,400	+17,800	+31,500	+121,600	+41,600	-7,000	-19,100	-38,600	-41,700	-45,700	-40,300	-38,500
(††)	6,722	2,166	1,275	1,882	2,237	5,024	8,450	10,495	13,761	14,577	14,654	10,403

CAL YR 1965 MAX 1,686 MIN 1,402 ‡ -113,900
WTR YR 1966 MAX 1,617 MIN 1,386 ‡ -42,800

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.
†† EVAPORATION, IN ACRE-FEET.

11453900 LAKE BERRYESSA NEAR WINTERS, CALIF.--CONTINUED

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,384	1,348	1,381	1,474	1,675	1,616	1,632	1,624	1,605	1,588	1,541	1,496
2	1,383	1,347	1,398	1,474	1,670	1,616	1,631	1,622	1,607	1,586	1,540	1,495
3	1,381	1,347	1,405	1,474	1,664	1,616	1,630	1,620	1,608	1,585	1,538	1,494
4	1,380	1,346	1,424	1,474	1,659	1,615	1,629	1,618	1,609	1,583	1,536	1,493
5	1,379	1,345	1,446	1,474	1,654	1,615	1,629	1,616	1,608	1,582	1,535	1,492
6	1,378	1,345	1,454	1,474	1,650	1,615	1,635	1,615	1,608	1,580	1,533	1,491
7	1,377	1,345	1,458	1,474	1,647	1,614	1,636	1,613	1,608	1,578	1,532	1,489
8	1,376	1,344	1,460	1,474	1,644	1,614	1,636	1,612	1,608	1,577	1,530	1,488
9	1,374	1,344	1,463	1,474	1,640	1,613	1,635	1,612	1,608	1,575	1,529	1,487
10	1,374	1,344	1,466	1,474	1,638	1,615	1,635	1,612	1,607	1,574	1,527	1,486
11	1,372	1,344	1,467	1,474	1,636	1,617	1,635	1,612	1,606	1,572	1,526	1,485
12	1,371	1,344	1,468	1,474	1,634	1,621	1,634	1,612	1,606	1,571	1,524	1,484
13	1,369	1,344	1,469	1,474	1,632	1,624	1,632	1,612	1,606	1,570	1,523	1,483
14	1,368	1,344	1,470	1,474	1,630	1,624	1,632	1,613	1,605	1,568	1,522	1,482
15	1,367	1,346	1,471	1,474	1,628	1,626	1,631	1,613	1,604	1,567	1,520	1,481
16	1,365	1,348	1,472	1,474	1,627	1,648	1,630	1,613	1,604	1,565	1,518	1,479
17	1,364	1,348	1,472	1,474	1,626	1,648	1,634	1,613	1,603	1,563	1,517	1,478
18	1,363	1,348	1,473	1,474	1,625	1,646	1,637	1,613	1,602	1,562	1,516	1,478
19	1,362	1,354	1,473	1,474	1,624	1,644	1,638	1,612	1,601	1,560	1,515	1,477
20	1,361	1,366	1,474	1,483	1,622	1,642	1,638	1,612	1,600	1,558	1,513	1,477
21	1,360	1,371	1,474	1,580	1,621	1,640	1,639	1,612	1,599	1,557	1,512	1,476
22	1,359	1,373	1,474	1,596	1,620	1,638	1,640	1,612	1,598	1,556	1,511	1,475
23	1,358	1,374	1,474	1,601	1,620	1,637	1,641	1,611	1,597	1,554	1,509	1,475
24	1,357	1,374	1,474	1,623	1,619	1,635	1,641	1,611	1,596	1,553	1,507	1,474
25	1,356	1,374	1,475	1,628	1,619	1,634	1,639	1,610	1,595	1,551	1,506	1,473
26	1,355	1,374	1,475	1,633	1,618	1,632	1,636	1,609	1,594	1,550	1,504	1,473
27	1,354	1,374	1,474	1,636	1,618	1,630	1,634	1,608	1,593	1,549	1,503	1,471
28	1,353	1,376	1,474	1,642	1,617	1,629	1,631	1,607	1,592	1,547	1,501	1,470
29	1,352	1,379	1,475	1,666	------	1,628	1,629	1,606	1,590	1,546	1,501	1,470
30	1,351	1,380	1,475	1,679	------	1,630	1,626	1,605	1,589	1,544	1,499	1,468
31	1,350	------	1,474	1,680	------	1,633	------	1,605	------	1,543	1,498	------
MAX	1,384	1,380	1,475	1,680	1,675	1,648	1,641	1,624	1,609	1,588	1,541	1,496
MIN	1,350	1,344	1,381	1,474	1,617	1,613	1,626	1,605	1,589	1,543	1,498	1,468
(†)	426.45	428.10	433.26	443.97	440.75	441.57	441.25	440.12	439.31	436.90	434.52	432.94
(‡)	-36,300	+29,700	+94,900	+205,200	-62,800	+15,900	-6,200	-21,900	-15,600	-46,100	-44,900	-29,500
(††)	6,900	1,997	992	1,406	2,842	3,293	3,019	9,699	9,977	14,959	14,154	10,612

CAL YR 1966 MAX 1,617 MIN 1,344 ‡ +20,600
WTR YR 1967 MAX 1,680 MIN 1,344 ‡ +82,400

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.
†† EVAPORATION, IN ACRE-FEET.

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,467	1,434	1,424	1,431	1,535	1,602	1,616	1,595	1,558	1,513	1,462	1,416
2	1,467	1,433	1,424	1,431	1,539	1,602	1,615	1,594	1,556	1,511	1,460	1,415
3	1,466	1,432	1,426	1,431	1,542	1,603	1,615	1,592	1,554	1,510	1,458	1,413
4	1,465	1,431	1,429	1,431	1,543	1,603	1,614	1,591	1,553	1,508	1,457	1,412
5	1,464	1,431	1,430	1,431	1,545	1,604	1,614	1,590	1,551	1,507	1,455	1,410
6	1,462	1,430	1,432	1,431	1,546	1,604	1,614	1,589	1,550	1,505	1,454	1,409
7	1,461	1,430	1,433	1,430	1,547	1,605	1,613	1,588	1,549	1,503	1,452	1,408
8	1,460	1,429	1,434	1,430	1,548	1,605	1,613	1,586	1,548	1,502	1,451	1,406
9	1,459	1,428	1,434	1,431	1,548	1,605	1,612	1,585	1,546	1,500	1,449	1,405
10	1,458	1,428	1,434	1,443	1,549	1,605	1,612	1,584	1,545	1,499	1,448	1,403
11	1,456	1,427	1,434	1,444	1,549	1,605	1,612	1,582	1,544	1,497	1,446	1,402
12	1,455	1,426	1,434	1,444	1,550	1,609	1,611	1,581	1,542	1,495	1,445	1,400
13	1,453	1,426	1,432	1,446	1,550	1,613	1,610	1,580	1,541	1,494	1,443	1,399
14	1,451	1,426	1,432	1,450	1,550	1,616	1,610	1,579	1,540	1,492	1,441	1,398
15	1,450	1,426	1,431	1,459	1,551	1,617	1,609	1,578	1,538	1,490	1,440	1,396
16	1,449	1,426	1,431	1,461	1,554	1,625	1,608	1,577	1,537	1,488	1,438	1,393
17	1,448	1,426	1,432	1,462	1,560	1,626	1,607	1,576	1,536	1,487	1,436	1,392
18	1,447	1,426	1,432	1,463	1,562	1,626	1,606	1,575	1,534	1,485	1,435	1,390
19	1,446	1,426	1,432	1,463	1,572	1,625	1,606	1,574	1,532	1,483	1,434	1,389
20	1,444	1,426	1,432	1,464	1,580	1,624	1,605	1,573	1,531	1,482	1,432	1,388
21	1,443	1,425	1,432	1,464	1,588	1,624	1,604	1,571	1,530	1,480	1,432	1,386
22	1,442	1,424	1,432	1,464	1,591	1,623	1,603	1,570	1,528	1,479	1,430	1,384
23	1,441	1,424	1,432	1,465	1,594	1,622	1,602	1,569	1,527	1,477	1,429	1,383
24	1,440	1,424	1,432	1,465	1,595	1,621	1,602	1,568	1,525	1,476	1,427	1,381
25	1,439	1,424	1,432	1,465	1,597	1,621	1,601	1,566	1,523	1,474	1,426	1,380
26	1,439	1,423	1,432	1,465	1,598	1,620	1,600	1,565	1,522	1,473	1,425	1,378
27	1,438	1,423	1,432	1,465	1,599	1,619	1,598	1,564	1,520	1,471	1,423	1,377
28	1,437	1,423	1,432	1,465	1,600	1,618	1,598	1,562	1,518	1,469	1,422	1,376
29	1,436	1,424	1,432	1,507	1,600	1,618	1,597	1,561	1,516	1,467	1,421	1,374
30	1,435	1,424	1,432	1,527	------	1,617	1,596	1,560	1,514	1,466	1,420	1,373
31	1,435	------	1,432	1,532	------	1,616	------	1,558	------	1,464	1,418	------
MAX	1,467	1,434	1,434	1,532	1,600	1,626	1,616	1,595	1,558	1,513	1,462	1,416
MIN	1,435	1,423	1,424	1,430	1,535	1,602	1,596	1,558	1,514	1,464	1,418	1,373
(†)	431.11	430.56	430.96	436.32	439.91	440.73	439.68	437.71	435.39	432.69	430.20	427.72
(‡)	-33,900	-10,100	7,300	100,100	68,600	15,900	-40,300	-37,700	-44,000	-50,600	-46,000	-45,100
(††)	6,580	2,989	2,360	1,375	1,743	4,445	7,918	9,763	12,706	13,585	10,159	9,023

CAL YR 1967 MAX 1,680 MIN 1,423 ‡ -42,600
WTR YR 1968 MAX 1,626 MIN 1,373 ‡ -95,800

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.
†† EVAPORATION, IN ACRE-FEET.

11453900 LAKE BERRYESSA NEAR WINTERS, CALIF.--CONTINUED

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,371	1,342	1,341	1,408	1,645	1,662	1,618	1,612	1,579	1,538	1,490	1,449
2	1,370	1,344	1,340	1,410	1,643	1,662	1,618	1,611	1,578	1,536	1,489	1,448
3	1,368	1,344	1,340	1,410	1,641	1,659	1,618	1,611	1,576	1,535	1,488	1,447
4	1,366	1,344	1,340	1,410	1,639	1,657	1,618	1,609	1,575	1,534	1,487	1,446
5	1,365	1,344	1,340	1,410	1,642	1,654	1,618	1,608	1,573	1,532	1,485	1,444
6	1,364	1,344	1,340	1,411	1,649	1,650	1,619	1,608	1,572	1,531	1,484	1,443
7	1,363	1,343	1,340	1,411	1,648	1,647	1,619	1,607	1,570	1,530	1,482	1,442
8	1,361	1,343	1,340	1,411	1,647	1,645	1,618	1,606	1,569	1,528	1,481	1,441
9	1,360	1,343	1,340	1,411	1,661	1,643	1,618	1,605	1,567	1,526	1,479	1,440
10	1,359	1,343	1,348	1,411	1,661	1,641	1,618	1,604	1,566	1,525	1,478	1,439
11	1,358	1,343	1,350	1,412	1,668	1,639	1,618	1,603	1,565	1,523	1,476	1,438
12	1,357	1,343	1,350	1,430	1,668	1,638	1,617	1,602	1,564	1,521	1,475	1,438
13	1,356	1,342	1,351	1,472	1,664	1,636	1,617	1,601	1,563	1,520	1,474	1,436
14	1,355	1,343	1,356	1,480	1,666	1,635	1,616	1,600	1,561	1,518	1,472	1,436
15	1,354	1,343	1,369	1,483	1,679	1,633	1,616	1,599	1,560	1,517	1,470	1,434
16	1,353	1,342	1,371	1,485	1,678	1,632	1,615	1,598	1,558	1,515	1,469	1,433
17	1,352	1,342	1,372	1,488	1,674	1,631	1,615	1,597	1,557	1,514	1,467	1,432
18	1,351	1,343	1,372	1,496	1,669	1,629	1,615	1,596	1,556	1,512	1,466	1,432
19	1,350	1,343	1,372	1,523	1,664	1,628	1,614	1,595	1,554	1,511	1,465	1,430
20	1,349	1,343	1,372	1,559	1,660	1,627	1,614	1,594	1,553	1,509	1,464	1,430
21	1,348	1,343	1,372	1,599	1,656	1,626	1,614	1,593	1,552	1,507	1,462	1,429
22	1,347	1,343	1,373	1,614	1,652	1,626	1,614	1,592	1,551	1,506	1,461	1,428
23	1,346	1,343	1,373	1,619	1,651	1,625	1,615	1,590	1,550	1,503	1,459	1,428
24	1,346	1,343	1,384	1,623	1,655	1,624	1,614	1,589	1,548	1,501	1,458	1,427
25	1,345	1,343	1,395	1,632	1,656	1,624	1,614	1,588	1,547	1,500	1,457	1,426
26	1,345	1,342	1,399	1,652	1,654	1,623	1,614	1,587	1,545	1,498	1,456	1,425
27	1,344	1,342	1,401	1,652	1,654	1,622	1,614	1,586	1,543	1,497	1,454	1,424
28	1,343	1,342	1,405	1,652	1,662	1,622	1,614	1,584	1,542	1,496	1,453	1,423
29	1,343	1,341	1,406	1,651	------	1,621	1,613	1,583	1,540	1,494	1,452	1,423
30	1,343	1,341	1,408	1,649	------	1,620	1,612	1,582	1,539	1,493	1,451	1,422
31	1,343	------	1,408	1,647	------	1,619	------	1,581	------	1,492	1,450	------
MAX	1,371	1,344	1,408	1,652	1,679	1,662	1,619	1,612	1,579	1,538	1,490	1,449
MIN	1,343	1,341	1,340	1,408	1,639	1,619	1,612	1,581	1,539	1,492	1,450	1,422
(†)	426.07	425.96	429.68	442.30	443.05	440.88	440.52	438.88	436.70	434.18	431.96	430.42
(‡)	-29,800	-1,900	+67,300	+238,600	+14,700	-42,300	-7,000	-31,600	-41,600	-47,500	-41,300	-28,400
(††)	4,305	1,791	974	785	1,140	4,610	5,788	10,699	10,280	12,774	12,091	8,580

CAL YR 1968 MAX 1,626 MIN 1,340 ‡ -23,500
WTR YR 1969 MAX 1,679 MIN 1,340 ‡ +49,200

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.
†† EVAPORATION, IN ACRE-FEET.

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,421	1,409	1,405	1,518	1,654	1,611	1,604	1,585	1,549	1,508	1,461	1,419
2	1,420	1,409	1,405	1,518	1,646	1,609	1,604	1,583	1,548	1,507	1,460	1,418
3	1,418	1,409	1,405	1,519	1,640	1,608	1,604	1,582	1,546	1,505	1,459	1,416
4	1,418	1,409	1,405	1,520	1,636	1,613	1,604	1,581	1,545	1,504	1,457	1,415
5	1,417	1,410	1,404	1,520	1,634	1,615	1,604	1,580	1,544	1,503	1,456	1,413
6	1,416	1,410	1,404	1,520	1,633	1,616	1,603	1,579	1,543	1,502	1,454	1,412
7	1,415	1,410	1,404	1,520	1,632	1,618	1,603	1,578	1,541	1,501	1,453	1,411
8	1,414	1,410	1,404	1,522	1,631	1,620	1,602	1,577	1,539	1,499	1,452	1,410
9	1,413	1,409	1,404	1,550	1,630	1,621	1,602	1,576	1,538	1,498	1,450	1,409
10	1,413	1,409	1,405	1,559	1,629	1,621	1,601	1,575	1,536	1,496	1,449	1,407
11	1,412	1,409	1,406	1,563	1,628	1,622	1,600	1,574	1,535	1,495	1,448	1,406
12	1,412	1,409	1,410	1,567	1,626	1,622	1,599	1,572	1,534	1,493	1,446	1,405
13	1,411	1,409	1,414	1,580	1,634	1,620	1,598	1,572	1,533	1,492	1,445	1,404
14	1,411	1,409	1,414	1,619	1,633	1,617	1,598	1,570	1,532	1,490	1,443	1,402
15	1,413	1,409	1,415	1,628	1,630	1,614	1,597	1,569	1,531	1,488	1,442	1,401
16	1,413	1,408	1,414	1,664	1,632	1,611	1,597	1,568	1,530	1,486	1,440	1,400
17	1,413	1,408	1,414	1,668	1,633	1,608	1,596	1,567	1,528	1,484	1,439	1,399
18	1,413	1,408	1,415	1,666	1,631	1,605	1,596	1,566	1,527	1,483	1,438	1,397
19	1,413	1,407	1,427	1,664	1,628	1,604	1,595	1,564	1,526	1,482	1,436	1,396
20	1,412	1,407	1,444	1,666	1,625	1,603	1,594	1,563	1,525	1,480	1,435	1,395
21	1,412	1,406	1,465	1,700	1,623	1,603	1,593	1,562	1,524	1,479	1,433	1,394
22	1,412	1,406	1,469	1,704	1,620	1,603	1,592	1,561	1,522	1,477	1,432	1,392
23	1,411	1,406	1,481	1,728	1,617	1,604	1,592	1,559	1,520	1,476	1,430	1,391
24	1,411	1,406	1,505	1,733	1,615	1,604	1,591	1,558	1,519	1,474	1,429	1,390
25	1,410	1,406	1,510	1,723	1,612	1,605	1,590	1,557	1,518	1,473	1,428	1,389
26	1,410	1,406	1,513	1,709	1,611	1,605	1,589	1,556	1,516	1,471	1,426	1,388
27	1,410	1,406	1,515	1,701	1,608	1,605	1,588	1,554	1,514	1,469	1,425	1,386
28	1,410	1,405	1,515	1,690	1,606	1,604	1,587	1,553	1,512	1,468	1,424	1,385
29	1,410	1,405	1,516	1,679	------	1,605	1,586	1,552	1,511	1,466	1,422	1,384
30	1,410	1,405	1,516	1,669	------	1,605	1,585	1,550	1,510	1,464	1,421	1,383
31	1,410	------	1,518	1,661	------	1,604	------	1,550	------	1,462	1,420	------
MAX	1,421	1,410	1,518	1,733	1,654	1,622	1,604	1,585	1,549	1,508	1,461	1,419
MIN	1,410	1,405	1,404	1,518	1,606	1,603	1,585	1,550	1,510	1,462	1,420	1,383
(†)	429,76	429.50	435.57	443.00	440.21	440.10	439.11	437.26	435.14	432.67	430.30	428.28
(‡)	-12,300	-5,000	+113,000	+143,000	-55,000	-2,000	-19,000	-35,000	-40,000	-48,000	-42,000	-37,000
(††)	5,383	2,358	1,246	1,561	2,158	6,462	7,315	13,041	13,369	15,477	12,889	9,789

CAL YR 1969 MAX 1,679 MIN 1,404 ‡ +109,300
WTR YR 1970 MAX 1,733 MIN 1,383 ‡ -39,100

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.
†† EVAPORATION, IN ACRE-FEET.

11454000 PUTAH CREEK NEAR WINTERS, CALIF.

LOCATION.--Lat 38°30'55", long 122°04'51", in NE¼NE¼ sec.28, T.8 N., R.2 W., Yolo County, on left bank 1 mile downstream from Cold Canyon, 1.3 miles downstream from Monticello Dam, and 6 miles west of Winters.

DRAINAGE AREA.--574 sq mi.

PERIOD OF RECORD.--July 1930 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 160.75 ft above mean sea level (river-profile survey). June 28, 1930, to Feb. 29, 1940, at present site at datum about 1 ft higher.

AVERAGE DISCHARGE.--40 years, 518 cfs (375,300 acre-ft per year), adjusted for change in contents and evaporation from Lake Berryessa.

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-70 are contained in the following table:

	Maximum			Minimum daily	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Sept.11, 12, 1966	788	[a]8.11	Nov. 13, 1965	8.7
1967	Jan. 31, 1967	6,390	14.69	Nov. 7-10, 1966	14
1968	Mar. 17, 1968	1,180	9.23	Dec. 19, 1967	6.1
1969	Feb. 15, 1969	6,410	14.72	Dec. 11, 12, 1968	10
1970	Jan. 24, 1970	16,300	18.85	Nov. 6, 1969	8.7

[a] Maximum gage height for year, 8.13 ft July 11, 1966.

Period of record: Maximum discharge, 81,000 cfs Feb. 27, 1940 (gage height, 30.5 ft, present datum), from rating curve extended above 30,000 cfs; no flow Sept. 6-15, 1950, July 26 to Sept. 1, Sept. 6-9, 1955. Maximum discharge since construction of Monticello Dam in 1957, 16,300 cfs Jan. 24, 1970 (gage height, 18.85 ft); minimum daily, 6.1 cfs Dec. 19, 1967.

Maximum stage since at least 1905, 30.5 ft (present datum) Feb. 27, 1940, on basis of records for station at Winters.

REMARKS.--Records good. Since January 1957, flow regulated by Lake Berryessa (see station 11453900). Water-quality records for the water years 1966-70 are published in reports of the Geological Survey.

REVISIONS (WATER YEARS).--WSP 901: 1937-38(M). WSP 1285: 1932(M), 1935-36(M), 1940(M), 1942-43(M), 1951, 1952(M). WSP 1565: 1957. WSP 1931: Drainage area.

DISCHARGE. IN CUBIC FEFT PER SECOND. WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	405	141	67	63	94	553	238	575	523	575	462	359
2	379	140	67	77	48	515	222	572	515	565	448	348
3	369	114	66	88	46	471	221	626	560	523	449	339
4	352	101	66	138	54	447	238	641	556	527	487	358
5	358	101	65	173	49	429	275	629	543	574	520	405
6	352	100	59	45	122	427	280	626	464	589	490	442
7	334	85	47	42	180	420	249	637	416	582	488	420
8	330	69	47	89	232	401	242	606	437	580	567	426
9	332	54	34	86	269	391	256	576	429	574	592	502
10	332	42	24	60	300	398	259	525	438	545	586	656
11	345	34	26	78	302	408	254	511	419	559	583	768
12	336	25	30	96	330	403	284	512	389	589	575	734
13	321	8.7	62	60	320	405	461	509	479	546	590	710
14	310	15	89	48	320	405	436	487	572	514	546	672
15	279	41	68	57	327	430	456	488	624	493	509	609
16	267	62	71	69	325	389	461	477	668	463	484	578
17	261	41	87	60	325	363	448	497	632	435	508	538
18	287	31	82	61	328	356	438	519	599	473	497	519
19	290	61	72	61	390	352	511	552	592	518	515	511
20	290	72	43	61	488	341	433	577	586	562	490	527
21	290	67	15	42	505	325	419	598	572	602	436	522
22	290	65	17	13	512	314	408	579	564	602	476	502
23	283	66	16	35	525	293	423	536	561	591	516	496
24	280	45	17	56	539	287	440	524	608	544	461	504
25	294	32	22	59	544	283	429	523	578	614	425	497
26	312	63	18	60	567	275	427	569	543	634	406	566
27	341	86	30	56	565	267	498	577	537	624	397	617
28	332	72	49	43	560	257	532	573	577	630	365	628
29	314	67	28	44	------	249	580	541	625	591	371	611
30	170	67	50	43	------	243	567	509	579	575	382	644
31	123	------	66	80	------	236	------	524	------	552	365	------
TOTAL	9.558	1.967.7	1.500	2.043	9.166	11.333	11.385	17.195	16.185	17.345	14.986	16.008
MEAN	308	65.6	48.4	65.9	327	366	380	555	540	560	483	534
MAX	405	141	89	173	567	553	580	641	668	634	592	768
MIN	123	8.7	15	13	46	236	221	477	389	435	365	339
AC-FT	18.960	3.900	2.980	4.050	18.180	22.480	22.580	34.110	32.100	34.400	29.720	31.750

CAL YR 1965 TOTAL 209.890.7 MEAN 575 MAX 7.530 MIN 8.7 AC-FT 416.300 MEAN† 536 AC-FT† 387,900
WTR YR 1966 TOTAL 128.671.7 MEAN 353 MAX 768 MIN 8.7 AC-FT 255.200 MEAN† 420 AC-FT† 304,100

† ADJUSTED FOR CHANGE IN CONTENTS AND EVAPORATION FROM LAKE BERRYESSA.

11454000 PUTAH CREEK NEAR WINTERS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	691	443	48	73	5,830	521	1,540	2,030	298	638	651	458
2	672	440	112	72	5,180	490	1,470	1,860	162	608	662	434
3	664	431	40	73	4,550	472	1,400	1,780	160	611	676	419
4	560	429	67	75	4,000	446	1,330	1,670	177	617	668	394
5	448	428	121	87	3,590	418	1,280	1,580	190	611	635	420
6	426	232	55	97	3,160	399	1,550	1,490	216	620	589	435
7	385	14	40	93	2,840	381	1,820	1,420	251	596	561	422
8	366	14	56	88	2,550	367	1,820	1,100	264	617	573	432
9	357	14	71	88	2,290	357	1,760	366	272	611	581	411
10	471	14	59	88	2,080	328	1,700	323	277	472	595	381
11	537	48	50	103	1,830	491	1,760	319	310	548	552	371
12	520	71	69	112	1,690	658	1,700	321	319	599	543	378
13	494	74	68	103	1,560	883	1,620	322	342	638	534	373
14	477	65	67	88	1,410	962	1,540	323	324	641	542	353
15	461	50	66	88	1,280	982	1,460	320	338	629	570	338
16	455	43	66	88	1,160	2,380	1,400	319	400	623	565	310
17	458	26	65	88	1,070	2,940	1,420	321	415	653	548	285
18	445	15	64	94	998	2,820	1,750	322	410	629	561	269
19	443	18	64	98	934	2,630	2,000	316	437	605	584	249
20	444	19	64	77	848	2,410	2,000	311	491	599	539	244
21	444	59	72	634	792	2,270	2,030	317	491	583	531	259
22	447	77	82	179	736	2,110	2,120	363	503	576	567	255
23	466	64	96	68	687	1,990	2,150	410	488	553	579	228
24	453	64	71	637	653	1,850	2,630	427	490	528	569	212
25	442	75	71	1,290	650	1,710	3,120	496	520	532	590	286
26	441	82	71	1,560	617	1,560	2,900	493	514	548	546	340
27	443	82	72	1,950	579	1,450	2,710	448	478	583	499	346
28	443	78	72	2,290	545	1,360	2,510	477	505	570	448	338
29	443	69	73	4,310	------	1,250	2,350	446	559	532	440	277
30	443	49	73	5,630	------	1,250	2,170	441	605	542	462	312
31	433	------	72	6,270	------	1,540	------	433	------	604	479	------
TOTAL	14,672	3,587	2,137	26,591	54,109	39,675	57,010	21,564	11,206	18,316	17,439	10,229
MEAN	473	120	68.9	858	1,932	1,280	1,900	696	374	591	563	341
MAX	691	443	121	6,270	5,830	2,940	3,120	2,030	605	653	676	458
MIN	357	14	40	68	545	328	1,280	311	160	472	440	212
AC-FT	29,100	7,110	4,240	52,740	107,300	78,700	113,100	42,770	22,230	36,330	34,590	20,290

CAL YR 1966 TOTAL 136,042 MEAN 373 MAX 768 MIN 13 AC-FT 269,800 MEAN† 527 AC-FT† 381,800
WTR YR 1967 TOTAL 276,535 MEAN 758 MAX 6,270 MIN 14 AC-FT 548,500 MEAN† 982 AC-FT† 710,700

† ADJUSTED FOR CHANGE IN CONTENTS AND EVAPORATION FROM LAKE BERRYESSA.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	330	311	8.7	64	60	51	523	525	587	638	729	598
2	368	303	8.3	60	50	54	507	542	570	635	686	578
3	397	293	9.1	60	50	61	482	564	559	652	662	602
4	419	285	39	60	54	67	463	546	538	669	606	634
5	462	280	69	60	58	67	437	518	556	656	556	635
6	500	290	69	66	61	65	408	535	582	616	580	629
7	580	287	69	71	61	72	392	548	568	577	612	617
8	558	280	69	38	67	90	367	597	534	601	586	599
9	529	266	69	9.0	77	99	347	659	506	655	571	617
10	593	267	69	13	81	107	332	647	472	693	574	623
11	578	271	69	11	81	109	318	615	478	699	582	590
12	586	271	104	9.1	82	140	307	566	479	679	564	599
13	593	128	95	8.6	81	316	355	509	468	659	575	629
14	607	59	91	8.4	78	432	401	436	488	653	570	623
15	600	38	102	39	72	526	359	423	518	635	582	596
16	568	24	98	64	58	827	385	450	538	628	582	602
17	499	53	91	76	40	1,130	407	460	577	644	576	599
18	512	71	36	86	15	1,160	384	513	590	668	550	579
19	487	76	6.1	86	37	1,130	430	525	639	636	583	559
20	485	88	6.6	77	55	1,070	432	529	684	611	557	559
21	486	95	6.8	70	31	1,020	371	559	693	594	566	587
22	462	95	7.9	66	15	966	365	583	671	605	568	629
23	429	84	8.0	64	42	910	404	594	641	575	562	650
24	332	78	7.6	64	100	862	417	623	687	590	566	677
25	321	77	41	64	93	824	410	622	681	634	555	671
26	316	67	69	75	62	764	418	607	677	665	609	632
27	300	46	69	100	53	708	456	585	712	686	662	611
28	293	25	69	80	45	665	465	579	680	662	645	596
29	293	9.2	68	67	47	621	455	561	662	732	639	582
30	287	10	68	63	------	584	497	548	668	713	629	593
31	293	------	69	44	------	564	------	551	------	717	622	------
TOTAL	14,063	4,527.2	1,661.1	1,723.1	1,706	16,061	12,294	17,119	17,703	20,077	18,506	18,295
MEAN	454	151	53.6	55.6	58.8	518	410	552	590	648	597	610
MAX	607	311	104	100	100	1,160	523	659	712	732	729	677
MIN	287	9.2	6.1	8.4	15	51	307	423	468	575	550	559
AC-FT	27,890	8,980	3,290	3,420	3,380	31,860	24,390	33,960	35,110	39,820	36,710	36,290

CAL YR 1967 TOTAL 276,390.3 MEAN 757 MAX 6,270 MIN 6.1 AC-FT 548,200 MEAN† 811 AC-FT† 587,400
WTR YR 1968 TOTAL 143,735.4 MEAN 393 MAX 1,160 MIN 6.1 AC-FT 285,100 MEAN† 375 AC-FT† 271,900

† ADJUSTED FOR CHANGE IN CONTENTS AND EVAPORATION FROM LAKE BERRYESSA.

11454000 PUTAH CREEK NEAR WINTERS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1968 TO SEPTEMBER 1969

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	605	70	97	91	2,840	4,160	651	434	629	588	500	387
2	584	42	94	95	2,640	4,050	620	471	616	565	458	373
3	582	15	89	104	2,430	3,910	613	458	574	558	464	396
4	584	45	71	116	2,240	3,630	587	477	667	581	538	417
5	581	80	18	112	2,210	3,340	601	513	669	601	584	385
6	566	86	19	100	3,000	3,060	642	545	675	612	595	345
7	554	86	19	69	3,090	2,800	638	565	667	610	579	353
8	556	85	19	63	2,920	2,570	626	554	659	650	559	378
9	543	76	19	63	3,630	2,390	622	579	643	659	551	380
10	512	69	16	84	4,280	2,230	603	570	598	684	537	385
11	511	41	10	140	4,640	2,070	582	562	574	661	517	363
12	453	13	10	131	5,130	1,960	577	556	564	649	526	329
13	426	16	11	91	4,780	1,850	537	537	581	639	550	296
14	439	16	13	43	4,440	1,710	516	534	551	660	560	284
15	432	16	20	82	5,850	1,590	496	534	534	711	518	297
16	363	16	47	89	6,180	1,500	470	529	563	728	517	300
17	440	16	76	113	5,650	1,410	465	540	608	685	509	297
18	442	16	79	121	5,120	1,340	437	559	580	679	509	297
19	447	16	60	102	4,590	1,250	419	579	526	666	517	297
20	445	16	42	225	4,090	1,180	399	554	525	660	504	270
21	434	16	70	116	3,650	1,140	383	551	537	662	502	269
22	294	31	70	259	3,270	1,090	377	523	508	667	478	282
23	243	51	142	615	3,120	1,040	386	587	510	676	429	300
24	259	36	96	890	3,290	970	415	573	557	681	393	308
25	278	24	72	1,230	3,500	914	410	545	576	645	417	308
26	288	23	68	3,200	3,470	872	399	568	578	593	435	294
27	264	39	90	3,560	3,270	835	380	573	596	580	404	285
28	244	89	77	3,530	3,640	793	385	573	602	558	395	280
29	139	92	82	3,300	------	764	408	582	588	505	401	269
30	82	97	90	3,250	------	726	419	596	590	494	396	250
31	74	------	90	3,050	------	693	------	605	------	478	388	------
TOTAL	12,664	1,334	1,776	25,034	106,960	57,837	15,063	16,926	17,645	19,385	15,230	9,674
MEAN	409	44.5	57.3	808	3,820	1,866	502	546	588	625	491	322
MAX	605	97	142	3,560	6,180	4,160	651	605	675	728	595	417
MIN	74	13	10	43	2,210	693	377	434	508	478	388	250
AC-FT	25,120	2,650	3,520	49,650	212,200	114,700	29,880	33,570	35,000	38,450	30,210	19,190

CAL YR 1968 TOTAL 139,258.1 MEAN 380 MAX 1,160 MIN 8.4 AC-FT 276,200 MEAN† 456 AC-FT† 330,500
WTR YR 1969 TOTAL 299,528.0 MEAN 821 MAX 6,180 MIN 10 AC-FT 594,100 MEAN† 990 AC-FT† 717,100

† ADJUSTED FOR CHANGE IN CONTENTS AND EVAPORATION FROM LAKE BERRYESSA.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	241	44	40	64	5,700	1,930	224	560	529	630	538	493
2	230	44	36	70	5,120	1,930	290	582	568	622	512	493
3	214	39	34	70	4,150	1,880	364	578	573	585	524	476
4	209	33	36	70	3,460	1,970	338	610	599	582	529	451
5	208	22	36	70	1,940	1,130	334	613	632	580	516	445
6	216	8.7	32	71	1,800	495	355	605	597	579	485	434
7	228	9.7	26	70	1,650	581	355	560	584	558	472	417
8	214	13	36	61	1,540	665	390	514	579	605	472	443
9	188	17	39	70	1,440	725	446	526	567	618	471	469
10	187	26	40	58	1,340	789	474	534	506	598	490	469
11	169	10	40	39	1,250	814	459	531	491	629	499	455
12	147	62	40	41	2,340	828	454	521	497	629	515	432
13	160	101	33	66	3,530	1,810	479	521	491	621	539	422
14	168	101	32	450	3,840	2,640	474	555	463	644	559	424
15	87	105	78	992	3,620	2,440	449	593	432	647	540	437
16	18	103	102	3,390	3,390	2,270	429	614	467	627	526	448
17	10	100	102	5,040	3,760	2,130	456	637	489	585	516	458
18	10	100	104	4,980	3,660	2,000	460	604	542	572	515	425
19	10	70	80	4,600	3,410	1,200	492	598	571	561	516	401
20	65	53	58	4,490	3,150	617	509	592	567	574	509	390
21	86	51	35	7,310	2,930	511	510	603	556	597	506	390
22	80	46	49	9,470	2,720	401	509	595	583	592	478	408
23	95	47	78	9,870	2,520	284	520	601	592	593	432	437
24	102	47	68	15,600	2,360	200	526	591	608	582	454	401
25	103	46	16	14,100	2,210	180	501	572	635	583	497	410
26	103	36	58	12,000	1,500	176	520	562	618	608	496	448
27	55	30	71	11,500	1,930	186	537	550	616	614	485	483
28	26	34	70	9,840	1,860	194	523	517	610	621	485	488
29	26	37	71	8,390	------	208	478	521	643	623	479	488
30	30	40	61	7,320	------	232	514	528	619	602	468	487
31	40	------	57	6,410	------	214	------	533	------	570	483	------
TOTAL	3,725	1,475.4	1,658	136,572	78,120	31,630	13,369	17,621	16,824	18,631	15,506	13,322
MEAN	120	49.2	53.5	4,406	2,790	1,020	446	568	561	601	500	444
MAX	241	105	104	15,600	5,700	2,640	537	637	643	647	559	493
MIN	10	8.7	16	39	1,250	176	224	514	432	558	432	390
AC-FT	7,390	2,930	3,290	270,900	155,000	62,740	26,520	34,950	33,370	36,950	30,760	26,420

CAL YR 1969 TOTAL 290,612.4 MEAN 796 MAX 6,180 MIN 8.7 AC-FT 576,400 MEAN† 1,051 AC-FT† 761,400
WTR YR 1970 TOTAL 348,453.4 MEAN 955 MAX 15,600 MIN 8.7 AC-FT 691,200 MEAN† 1,026 AC-FT† 743,200

† ADJUSTED FOR CHANGE IN CONTENTS AND EVAPORATION FROM LAKE BERRYESSA.

11454100 PLEASANTS CREEK NEAR WINTERS, CALIF.

LOCATION.--Lat 38°28'40", long 122°01'43", in SW¼SE¼ sec.1, T.7 N., R.2 W., Solano County, on left bank 0.2 mile upstream from unnamed tributary, 0.3 mile upstream from bridge on Pleasants Valley road, 1.3 miles northeast of Pleasants Valley School, and 4.4 miles southwest of Winters.

DRAINAGE AREA.--15.9 sq mi.

PERIOD OF RECORD.--October 1959 to September 1968 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 150.33 ft above mean sea level.

AVERAGE DISCHARGE.--9 years, 7.99 cfs (5,780 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet) for the water years 1966-68 are contained in the following table:

	Maximum			Minimum	
Wtr yr	Date	Discharge	G.H.	Date	Discharge
1966	Jan. 4, 1966	951	6.82	Many days	0
1967	Jan. 21, 1967	2,780	11.03	do.	0
1968	Jan. 29, 1968	500	5.20	do.	0

Period of record: Maximum discharge, 3,780 cfs Jan. 31, 1963 (gage height, 12.36 ft), from rating curve extended above 2,200 cfs on basis of slope-area measurement at gage height 10.05 ft; no flow for many days in each year.

REMARKS.--Several small reservoirs above station. Minor diversions above station for irrigation.

COOPERATION.--Records furnished by California Department of Water Resources and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.60	7.4	24	5.7	2.3	1.0	.30			
2		0	.50	5.2	9.9	5.3	2.2	.90	.20			
3		0	.50	4.2	49	4.9	2.1	.80	.20			
4		0	.50	247	64	5.0	2.0	.80	.20			
5		0	.60	400	21	4.9	2.0	.80	.20			
6		0	.60	61	16	4.7	2.0	.80	.20			
7		0	.50	26	13	4.4	1.9	.80	.30			
8		0	.60	19	12	4.3	1.8	.80	.20			
9		.10	.60	15	10	4.3	2.2	.80	.20			
10		.10	.70	13	9.0	4.6	4.1	.90	.10			
11		.10	1.5	12	8.3	4.3	2.3	.90	.10			
12		.10	3.3	10	7.9	4.2	2.2	.80	.10			
13		.50	1.1	9.6	7.4	4.0	1.9	.70	.10			
14		8.5	.90	8.7	7.0	3.9	1.8	.60	.10			
15		1.1	.80	7.4	6.9	3.7	1.7	.60	0			
16		.50	.80	6.7	6.4	3.5	1.6	.60	0			
17		12	.80	6.3	6.4	3.5	1.5	.50	0			
18		7.1	.80	5.8	6.2	3.5	1.5	.40	0			
19		1.6	.70	5.3	24	3.4	1.3	.40	0			
20		.80	.80	4.6	9.7	3.3	1.4	.30	0			
21		.60	.90	4.3	7.5	3.1	1.4	.30	0			
22		.50	.90	4.3	7.2	3.0	1.3	.30	0			
23		.50	.80	4.0	7.4	3.0	1.2	.30	0			
24		12	6.6	3.7	7.0	3.0	1.2	.30	0			
25		4.6	9.6	3.5	6.6	2.8	1.2	.30	0			
26		1.5	2.7	3.6	6.6	2.8	1.2	.20	0			
27		1.0	2.0	3.3	5.8	2.7	1.0	.20	0			
28		.80	79	3.0	5.7	2.6	1.0	.20	0			
29		.70	28	16	------	2.6	1.0	.20	0			
30		.70	16	18	------	2.6	1.0	.20	0			
31		------	17	7.2	------	2.5	------	.20	------			------
TOTAL	0	55.40	180.70	945.1	371.9	116.1	51.3	16.90	2.50	0	0	0
MEAN	0	1.85	5.83	30.5	13.3	3.75	1.71	.55	.083	0	0	0
MAX	0	12	79	400	64	5.7	4.1	1.0	.30	0	0	0
MIN	0	0	.50	3.0	5.7	2.5	1.0	.20	0	0	0	0
AC-FT	0	110	358	1,870	738	230	102	34	5.0	0	0	0

CAL YR 1965 TOTAL 3,094.20 MEAN 8.48 MAX 648 MIN 0 AC-FT 6,140
WTR YR 1966 TOTAL 1,739.90 MEAN 4.77 MAX 400 MIN 0 AC-FT 3,450

11454100 PLEASANTS CREEK NEAR WINTERS, CALIF.--CONTINUED

DISCHARGE, IN CUBIC FFET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	3.6	1.8	77	7.6	30	25	8.9	2.1	.40	.20
2		0	212	1.8	59	7.4	25	23	19	2.0	.40	.10
3		0	31	1.8	46	7.2	22	22	11	1.8	.40	.10
4		0	140	1.8	39	6.9	20	20	6.4	1.8	.30	.10
5		0	193	1.8	33	6.3	20	18	5.6	1.7	.30	.10
6		0	51	1.8	28	6.1	101	18	5.6	1.6	.30	.10
7		0	17	1.7	25	6.0	50	17	5.3	1.6	.30	.10
8		0	11	1.6	22	6.0	35	15	4.8	1.6	.30	.20
9		0	10	1.5	20	6.0	30	14	4.7	1.6	.30	.10
10		0	18	1.5	18	6.5	47	13	4.4	1.6	.30	.10
11		0	10	1.5	17	51	49	12	4.2	1.6	.30	.10
12		0	7.8	1.5	16	115	36	12	4.2	1.4	.30	.10
13		0	6.4	1.5	14	75	30	11	4.1	1.3	.30	.10
14		0	5.5	1.5	13	34	28	11	3.8	1.2	.30	.10
15		0	4.8	1.4	12	68	29	10	3.6	1.2	.20	.10
16		0	4.3	1.4	12	516	24	9.7	3.5	1.2	.20	.10
17		0	3.9	1.4	11	98	69	9.1	3.4	1.0	.20	.10
18		0	3.6	1.4	11	64	64	8.4	3.2	1.0	.20	.10
19		.60	3.4	1.4	10	48	56	7.9	3.2	1.0	.20	.10
20		24	3.3	54	9.3	39	38	7.6	3.4	.90	.20	.10
21		20	3.0	1,540	8.8	35	88	7.1	3.1	.90	.20	.10
22		10	2.6	218	8.6	30	62	6.8	3.1	.80	.20	.20
23		1.1	2.6	75	8.6	32	65	6.6	2.9	.80	.20	.30
24		.30	2.5	428	8.9	26	67	6.4	2.7	.80	.20	.30
25		.10	2.4	107	11	23	54	6.3	2.6	.70	.20	.20
26		0	2.3	76	8.2	20	44	6.1	2.6	.70	.20	.20
27		0	2.1	60	7.6	19	40	6.0	2.7	.60	.20	.10
28		13	2.0	96	7.4	19	35	5.8	2.6	.60	.20	.10
29		29	2.1	364	------	17	31	5.7	2.3	.60	.20	.10
30		2.2	2.0	255	------	85	28	5.6	2.2	.60	.20	.10
31		------	1.8	133	------	58	------	5.4	------	.50	.20	------
TOTAL	0	100.30	765.0	3,436.1	561.4	1,538.0	1,317	351.5	139.1	36.80	7.90	3.90
MEAN	0	3.34	24.7	111	20.1	49.6	43.9	11.3	4.64	1.19	.25	.13
MAX	0	29	212	1,540	77	516	101	25	19	2.1	.40	.30
MIN	0	0	1.8	1.4	7.4	6.0	20	5.4	2.2	.50	.20	.10
AC-FT	0	199	1,520	6,820	1,110	3.050	2,610	697	276	73	16	7.7

CAL YR 1966 TOTAL 2,369.10 MEAN 6.49 MAX 400 MIN 0 AC-FT 4,700
WTR YR 1967 TOTAL 8,257.00 MEAN 22.6 MAX 1,540 MIN 0 AC-FT 16,380

DISCHARGE, IN CUBIC FFET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.60	.30	.40	4.5	3.2	2.4	.50	.10			
2	.10	.60	.30	.40	4.7	2.9	2.5	.60	.10			
3	.20	.10	.40	.40	2.9	2.6	2.2	.50	.10			
4	.10	.10	.50	.40	2.4	2.5	2.0	.50	.10			
5	.10	.10	.60	.40	2.1	2.4	1.8	.50	.10			
6	.10	.20	.30	.50	1.8	2.4	1.8	.60	.10			
7	.10	.20	.60	.50	1.6	2.5	1.8	.50	.10			
8	.10	.20	.40	.50	1.6	2.6	1.6	.50	.10			
9	.10	.20	.30	.50	1.4	2.2	1.6	.50	.10			
10	.10	.20	.30	3.5	1.5	2.0	1.6	.50	.10			
11	.10	.20	.40	1.6	1.4	1.8	1.6	.50	.10			
12	.10	.20	.50	.90	1.3	8.2	1.4	.50	.10			
13	.10	.30	.50	.80	1.2	13	1.3	.60	.10			
14	.10	.40	.50	1.1	1.2	7.4	1.3	.80	.10			
15	.20	.30	.60	3.2	1.2	5.6	1.3	.70	0			
16	.20	.20	.60	1.8	17	32	1.2	.60	0			
17	.30	.20	.70	1.1	78	11	1.1	.50	0			
18	.30	.30	.90	.80	15	6.6	1.1	.40	0			
19	.20	.30	.60	.80	31	4.9	1.1	.40	0			
20	.20	.30	.50	.70	43	4.2	1.0	.40	0			
21	.20	.30	.40	.70	34	3.9	1.0	.40	0			
22	.30	.30	.40	.70	14	3.6	1.0	.40	0			
23	.30	.30	.40	.70	9.3	3.4	.90	.40	0			
24	.30	.30	.40	.70	6.6	3.2	.90	.40	0			
25	.30	.30	.40	.70	5.4	3.0	.80	.40	0			
26	.30	.30	.40	.70	4.5	2.9	.70	.30	0			
27	.30	.30	.40	.60	4.2	2.6	.60	.30	0			
28	.30	.30	.40	.60	3.7	2.6	.60	.20	0			
29	.40	.60	.40	97	3.4	2.4	.60	.20	0			
30	.50	.50	.40	95	------	2.4	.50	.20	0			
31	.60	------	.40	10	------	2.3	------	.20	------			------
TOTAL	6.70	8.70	14.20	227.70	299.9	152.3	39.30	14.00	1.40	0	0	0
MEAN	.22	.29	.46	7.35	10.3	4.91	1.31	.45	.047	0	0	0
MAX	.60	.60	.90	97	78	32	2.5	.80	.10	0	0	0
MIN	.10	.10	.30	.40	1.2	1.8	.50	.20	0	0	0	0
AC-FT	13	17	28	452	595	302	78	28	2.8	0	0	0

CAL YR 1967 TOTAL 7,421.30 MEAN 20.3 MAX 1,540 MIN .10 AC-FT 14,720
WTR YR 1968 TOTAL 764.20 MEAN 2.09 MAX 97 MIN 0 AC-FT 1,520

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or flood-flow analyses, depending on the type of data collected.

Records collected at partial-record stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations.

LOW-FLOW PARTIAL-RECORD STATIONS

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. Most of these measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream where continuous records are available, will give a picture of the low-flow potentiality of stream. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

Discharge measurements made at low-flow partial-record stations during water years 1966-70

Station number	Station name	Location	Drainage area (sq mi)	Period of record	Measurements Date	Measurements Discharge (cfs)
		SACRAMENTO RIVER BASIN				
11341300	SACRAMENTO RIVER ABOVE LAKE SISKIYOU, NEAR MOUNT SHASTA, CALIF.	Lat 41°17'13", long 122°22'31", in SE¼ NW¼ sec.25, T.40 N., R.4 W., Siskiyou County, 600 ft downstream from North Fork and 3.8 miles southwest of town of Mount Shasta.	47.8	1970	5-19-70	342
					6-11-70	90
					7-30-70	11
					8-28-70	6.5
					9-29-70	6.5
11341305	DEER CREEK NEAR MOUNT SHASTA, CALIF.	Lat 41°18'01", long 122°22'53", in SE¼ NE¼ sec.23, T.40 N., R.5 W., Siskiyou County, at culvert on county road, 3.8 miles west of town of Mount Shasta.	5.00	1970	5-20-70	8.7
					6-11-70	2.1
					8-27-70	.43
					9-30-70	.86
11341310	SCOTT CAMP CREEK AT DIVERSION DAM, NEAR MOUNT SHASTA, CALIF.	Lat 41°16'22", long 122°20'47", in SE¼ NE¼ sec.31, T.40 N., R.4 W., Siskiyou County, at diversion dam 0.5 mile upstream from Castle Lake Creek and 3.3 miles southwest of town of Mount Shasta.	4.62	1970	5-19-70	26
					6-11-70	9.4
					7-29-70	2.1
					8-28-70	1.3
					9-29-70	2.2
11341315	CASTLE LAKE CREEK AT ROAD CROSSING, NEAR MOUNT SHASTA, CALIF.	Lat 41°16'08", long 122°20'15", in NE¼ SW¼ sec.32, T.40 N., R.4 W., Siskiyou County, at diversion dam 0.5 mile upstream from Castle Lake Creek and 3.3 miles southwest of town of Mount Shasta.	2.90	1970	5-19-70	11
					8-28-70	.17
					9-29-70	.13
11341325	WAGON CREEK NEAR MOUNT SHASTA, CALIF.	Lat 41°17'31", long 122°19'24", in SW¼ SW¼ sec.21, T.40 N., R.4 W., Siskiyou County, 1.0 mile upstream from mouth and 1.6 miles southwest of town of Mount Shasta.	19.1	1970	5-20-70	44
					6-10-70	43
					7-28-70	21
					8-27-70	16
					9-30-70	16
11341344	COLD CREEK ABOVE LAKE SISKIYOU, NEAR MOUNT SHASTA, CALIF.	Lat 41°17'22", long 122°19'11", in NE¼ NW¼ sec.28, T.40 N., R.4 W., Siskiyou County, 0.5 mile upstream from mouth and 1.6 miles southwest of town of Mount Shasta.	-	1970	5-19-70	19
					6-10-70	16
					7-28-70	9.2
					8-27-70	12
11341440	SACRAMENTO RIVER AT SHASTA RETREAT, NEAR DUNSMUIR, CALIF.	Lat 41°14'13", long 122°16'32", in NE¼ SW¼ sec.13, T.39 N., R.4 W., Siskiyou County, at bridge at Shasta Retreat, 0.4 mile upstream from Bear Creek and 1.7 miles north of Dunsmuir.	160	1970	7-30-70	152
11341460	SACRAMENTO RIVER AT SODA CREEK ROAD, NEAR DUNSMUIR, CALIF.	Lat 41°09'39", long 122°17'33", in SW¼ SE¼ sec.11, T.38 N., R.4 W., Siskiyou County, at bridge on Soda Creek road, 0.1 mile upstream from Soda Creek and 3.7 miles southwest of Dunsmuir.	185	1970	5-22-70	555
					6-20-70	228
					8-28-70	129
11392200	MIDDLE FORK FEATHER RIVER AT DELLEKER, CALIF.	Lat 39°48'07", long 120°29'48", in SE¼ sec.3, T.22 N., R.13 E., Plumas County, 0.5 mile downstream from unnamed tributary and 1.7 miles southwest of Portola.	597	1970	7-21-70	17
					8-19-70	11
					9-16-70	12
11393300	MIDDLE FORK FEATHER RIVER BELOW LONG VALLEY CREEK, AT SLOAT, CALIF.	Lat 39°51'58", long 120°44'00", in SE¼ SW¼ sec.10, T.23 N., R.11 E., Plumas County, 0.1 mile downstream from Long Valley Creek at Sloat.	813	1970	5-25-70	637
					6-24-70	250
					7-22-70	80
					8-19-70	55
					9-16-70	57

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations during water years 1966-70

Station number	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
GOOSE LAKE BASIN							
11341100	SALT CREEK NEAR LAKEVIEW, OREG.	Lat 42°17'35", long 120°20'45", in NW¼ sec.10, T.38 S., R.20 E., Lake County, at culvert on U.S. Highway 395, 1.7 miles upstream from mouth, 2.6 miles north of Warner Valley junction, and 7.6 miles north of Lakeview.	5.62	1964-70	5-10-66	14.52	39
					5- 9-67	14.94	57
					2-21-68	14.35	34
					5-13-69	15.19	67
					1-26-70	15.45	78
11341200	CRANE CREEK NEAR LAKEVIEW, OREG.	Lat 42°07'05", long 120°17'25", in NW¼ sec.7, T.40 S., R.21 E., Lake County, Fremont National Forest, at culvert on Crane Creek road, 1.5 miles east of crossing at U.S. Highway 395 and 6 miles southeast of Lakeview.	11.4	1966-70	5-10-66	11.92	54
					5- 9-67	14.68	166
					2-21-68	12.48	75
					5-13-69	14.12	145
					1-23-70	15.26	190
SACRAMENTO RIVER BASIN							
11341550	BOULDER CREEK NEAR LAMOINE, CALIF.	Lat 41°01'00", long 122°23'15", in SW¼SE¼ sec.35, T.37 N., R.5 W., Shasta County, at culvert on U.S. Highway 99, 3.1 miles northeast of Lamoine and 15 miles southwest of Dunsmuir.	6.57	1961-70	11-18-65	33.74	683
					11-19-66	34.31	773
					2-21-68	32.57	309
					2-11-69	32.98	395
					12-21-69	36.19	1,270
11342945	THOMS CREEK NEAR CEDARVILLE, CALIF.	Lat 41°33'50", long 120°16'05", in SW¼ sec.28, T.43 N., R.15 E., Modoc County, Modoc National Forest, at culvert on Alturas-Cedarville road, 5.5 miles northwest of Cedarville.	1.06	1963-70	3-10-66	5.28	37
					5- -67	6.40	62
					2-22-68	6.13	53
					4- -69	6.66	71
					1-23-70	6.63	70
11342960	NORTH FORK PIT RIVER TRIBUTARY NEAR ALTURAS, CALIF.	Lat 41°34'35", long 120°26'05", in SW¼ sec.19, T.44 N., R.14 E., Modoc County, at culvert on U.S. Highway 395, 8.0 miles northeast of Alturas.	2.36	1963-70	3-16-66	5.16	13
					1-29-67	7.50	71
					2-22-68	6.34	44
					1-21-69	7.27	70
					1-23-70	8.30	101
11345800	SOUTH FORK PIT RIVER TRIBUTARY NEAR LIKELY, CALIF.	Lat 41°13'51", long 120°27'35", in NE¼SE¼ sec.10, T.39 N., R.13 E., Modoc County, at culvert on Jess Valley road, 1.5 miles downstream from gaging station on South Fork Pit River and 2.1 miles east of Likely.	1.59	1965-70	12-31-65	.91	2.1
					1-29-67	4.21	32
					1-16-68	1.53	6.0
					1-20-69	-	205
					1-23-70	5.00	256
11348080	BIG SAGE RESERVOIR TRIBUTARY NEAR ALTURAS, CALIF.	Lat 41°35'00", long 120°41'55", in NE¼ sec.9, T.43 N., R.11 E., Modoc County, Modoc National Forest, at culvert on Big Sage Reservoir road, 11 miles northwest of Alturas.	2.54	1963-70	3-16-66	6.58	a15
					3-16-67	6.91	143
					2-21-68	7.04	153
					4- -69	5.94	119
					1-23-70	4.02	54
11348560	TURNER CREEK TRIBUTARY NEAR CANBY, CALIF.	Lat 41°30'45", long 121°02'25", in SW¼NW¼ sec.3, T.42 N., R.8 E., Modoc County, Modoc National Forest, at culvert on State Highway 139, 10 miles northwest of Canby.	.97	1963-70	4- -66	4.47	a20
					3-16-67	4.36	39
					2-22-68	4.81	a40
					4- -69	3.86	25
					1-23-70	2.64	25
11349030	PIT RIVER TRIBUTARY NEAR LOOKOUT, CALIF.	Lat 41°18'38", long 121°08'02", in NE¼NW¼ sec.14, T.40 N., R.7 E., Modoc County, at culvert on Lookout-Tule Lake road, 7.5 miles north of Lookout.	.47	1963-70	3-10-66	3.63	21
					3-12-67	4.36	30
					1968	-	-
					2-12-69	4.86	43
					1-23-70	5.48	62
11349850	JOHNSON CREEK TRIBUTARY NEAR ADIN, CALIF.	Lat 41°18'28", long 120°58'43", in SE¼NE¼ sec.14, T.40 N., R.9 E., Modoc County, Modoc National Forest, at culvert on U.S. Highway 299, 8.5 miles north of Adin.	.66	1963-70	4- -66	3.00	17
					1-31-67	3.91	37
					2-21-68	3.11	20
					4- -69	3.31	24
					1-23-70	5.07	75
11350850	WILLOW CREEK ABOVE INDIAN SPRINGS, NEAR ADIN, CALIF.	Lat 40°59'43", long 120°48'20", in SW¼SE¼ sec.34, T.37 N., R.10 E., Lassen County, Modoc National Forest, at culvert on State Highway 139, 16 miles southeast of Adin.	9.51	1963-70	1- 4-66	2.8	4.7
					6-18-67	4.79	48
					2-21-68	3.26	12
					6-13-69	4.68	42
					1-23-70	3.90	24
11352620	PIT RIVER TRIBUTARY NO. 2 (formerly Pit River tributary) NEAR PITTVILLE, CALIF.	Lat 40°57'20", long 121°15'40", in NW¼SE¼ sec.15, T.36 N., R.6 E., Lassen County, at culvert on county road between Pittville and Little Valley, 8.8 miles southeast of Pittville.	.31	1963-70	12-31-65	3.94	7.1
					12- 6-66	4.71	17
					2-22-68	4.44	13
					4- -69	4.92	19
					1970	-	-
11355100	BUTTE CREEK TRIBUTARY NEAR OLD STATION, CALIF.	Lat 40°38'45", long 121°16'50", in SW¼ sec.11, T.32 N., R.6 E., Lassen County, Lassen National Forest, at culvert on State Highway 44, 8.2 miles east of Old Station.	5.15	1963-70	1966	-	(b)
					5-10-67	2.36	7.3
					1968	-	(b)
					4- -69	2.23	6.2
					1-23-70	3.88	20

NOTE.--See footnotes at end of table.

Annual maximum discharge at crest-stage partial-record stations during water years 1966-70--Continued

SACRAMENTO RIVER BASIN--CONTINUED

Station number	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
11355400	BUNCHGRASS CREEK NEAR MANZANITA LAKE, CALIF.	Lat 40°39'10", long 121°37'36", in NE¼SW¼ sec.3, T.32 N., R.3 E., Shasta County, Lassen National Forest, at culvert on U.S. Forest Service Road 32 N 46, 8.7 miles northwest of town of Manzanita Lake.	.62	1970	1-23-70	5.87	80
11359800	CAYTON CREEK TRIBUTARY NEAR DANA, CALIF.	Lat 41°03'11", long 121°38'20", in SE¼SE¼ sec.8, T.37 N., R.3 E., Shasta County, Shasta National Forest, at culvert on State Highway 89, 6 miles southwest of Dana.	.16	1963-70	4-25-66	3.22	5.4
					3-11-67	3.56	9.2
					2-23-68	3.64	10
					4- 5-69	3.82	12
					1-23-70	5.54	35
11364550	WILLOW CREEK NEAR ROUND MOUNTAIN, CALIF.	Lat 40°48'55", long 121°56'15", in NW¼SE¼ sec.11, T.34 N., R.1 W., Shasta County, at culvert on U.S. Highway 299 E, 1.4 miles north of Round Mountain.	2.61	1961-70	1- 6-66	15.65	264
					1-21-67	16.72	423
					2-23-68	18.04	653
					1-13-69	17.08	482
					1-23-70	16.54	394
11375600	HULING CREEK TRIBUTARY AT ONO, CALIF.	Lat 40°28'40", long 122°36'10", in SW¼SE¼ sec.1, T.30 N., R.7 W., Shasta County, at culvert on county road, 0.9 mile east of Ono.	c.07	1961-70	11-14-65	3.76	6.9
					6- 2-67	4.15	11
					1-29-68	5.12	18
					1-13-69	3.39	4.1
					1970	-	-
11375830	BUDDEN CANYON NEAR BEEGUM, CALIF.	Lat 40°19'00", long 122°46'35", in SE¼SW¼ sec.33, T.29 N., R.8 W., Tehama County, at culvert on State Highway 36, 4.7 miles southeast of Beegum.	1.09	1961-70	1- 4-66	8.20	47
					1-21-67	8.38	52
					2-20-68	8.57	59
					1-13-69	8.27	49
					1-23-70	9.55	93
11375950	COTTONWOOD CREEK TRIBUTARY NEAR COTTONWOOD, CALIF.	Lat 40°19'20", long 122°16'25", in NW¼SE¼ sec.35, T.29 N., R.4 W., Tehama County, at culvert on U.S. Highway 99, 4.4 miles south of Cottonwood.	c.46	1961-70	11-18-65	3.69	9.5
					1-29-67	4.51	24
					3-16-68	4.58	25
					1-21-69	4.90	31
					1-23-70	4.17	17
11376100	SOUTH FORK BAILEY CREEK NEAR MANZANITA LAKE, CALIF.	Lat 40°28'45", long 121°35'46", in unsurveyed section, Shasta County, Lassen National Forest, at culvert on U.S. Forest Service Road 31 N 12F, 4.4 miles southwest of town of Manzanita Lake and 5.2 miles southeast of Viola.	3.67	1970	1-23-70	9.14	266
11376200	SUMMIT CREEK NEAR MINERAL, CALIF.	Lat 40°22'05", long 121°32'20", in SW¼SE¼ sec.16, T.29 N., R.4 E., Tehama County, Lassen National Forest, at culvert on State Highway 36, 3.3 miles northeast of Mineral.	1.80	1961-70	6- -66	6.62	30
					5- -67	7.45	64
					11- -67	6.33	20
					6- -69	6.92	47
					1-23-70	11.15	220
11378700	VALE GULCH TRIBUTARY NEAR RED BANK, CALIF.	Lat 40°04'00", long 122°29'12", in SW¼NE¼ sec.36, T.26 N., R.6 W., Tehama County, at culvert on county road, 3.2 miles southwest of Red Bank.	.19	1961-70	11-14-65	6.04	51
					1-21-67	6.69	114
					1-14-68	4.83	33
					1-21-69	5.66	46
					1-23-70	5.94	50
11382950	NORTH FORK CALF CREEK NEAR BUTTE MEADOWS, CALIF.	Lat 40°09'44", long 121°31'58", in SW¼SW¼ sec.28, T.27 N., R.4 E., Tehama County, Lassen National Forest, at culvert on U.S. Forest Service Road 27 N 12, 1.8 miles upstream from Deer Creek, 5.6 miles north of Butte Meadows, and 11.2 miles south of town of Mill Creek.	1.26	1970	1-23-70	14.59	34
11384400	SOUTH FORK STONY CREEK NEAR STONYFORD, CALIF.	Lat 39°17'46", long 122°45'07", in NW¼SW¼ sec.27, T.17 N., R.8 W., Colusa County, Mendocino National Forest, at culvert on U.S. Forest Service Road 18 N 1, 12.5 miles southwest of Stonyford.	2.52	1970	1-23-70	28.23	553
11384700	GILMORE CREEK NEAR LODOGA, CALIF.	Lat 39°18'40", long 122°31'40", in NE¼SE¼ sec.21, T.17 N., R.6 W., Colusa County, at culvert on county road, 2.3 miles northwest of Lodoga.	.49	1960-70	1- 4-66	22.06	18
					1-24-67	22.08	18
					1-30-68	22.41	28
					2-15-69	21.99	20
					1970	-	-
11386200	SOUTH FORK ELK CREEK NEAR ELK CREEK, CALIF.	Lat 39°35'13", long 122°35'40", in NW¼SE¼ sec.13, T.20 N., R.7 W., Glenn County, at culvert on U.S. Forest Service Road 20 N 1, 1.0 mile upstream from confluence with North Fork Elk Creek and 3.2 miles southwest of Elk Creek.	10.6	1970	1-23-70	23.51	311
11386300	KILL DRY CREEK NEAR ALDER SPRINGS, CALIF.	Lat 39°45'10", long 122°49'53", in NW¼NE¼ sec.24, T.22 N., R.9 W., Glenn County, Mendocino National Forest, at culvert on U.S. Forest Service Road 24 N 2, 3.4 miles upstream from Grindstone Creek and 8.8 miles northwest of Alder Springs.	1.84	1970	1-23-70	17.86	242

NOTE.--See footnotes at end of table.

Annual maximum discharge at crest-stage partial-record stations during water years 1966-70--Continued

Station number	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		SACRAMENTO RIVER BASIN--CONTINUED					
11386400	GRINDSTONE CREEK TRIBUTARY NEAR ELK CREEK, CALIF.	Lat 39°39'25", long 122°35'40", in SE¼ sec.24, T.21 N., R.7 W., Glenn County, Mendocino National Forest, at culvert on county road, 4.6 miles northwest of Elk Creek.	c.77	1960-70	1- 4-66	16.83	19
					1-24-67	16.50	12
					1-15-68	16.63	14
					2-15-69	16.83	19
					1-23-70	18.18	42
11386450	WATSON CREEK TRIBUTARY NEAR NEWVILLE, CALIF.	Lat 39°43'05", long 122°32'55", on line between secs.32 and 33, T.22 N., R.6 W., Glenn County, at culvert on county road, 5.3 miles southwest of Newville.	c.52	1965-70	1- 4-66	11.94	40
					12- 6-66	12.49	60
					1-15-68	12.44	57
					1-13-69	12.52	60
					1-23-70	13.13	83
11389650	SCOTTS JOHN CREEK NEAR STIRLING CITY, CALIF.	Lat 40°06'33", long 121°25'33", in SE¼NE¼ sec.17, T.26 N., R.5 E., Butte County, Lassen National Forest, at culvert on U.S. Forest Service Road 26 N 27, 15 miles northeast of Stirling City.	3.76	1970	1-23-70	6.01	206
11390045	LITTLE CHICO CREEK TRIBUTARY AT FOREST RANCH, CALIF.	Lat 39°52'40", long 121°40'25", in SE¼ sec.6, T.23 N., R.3 E., Butte County, at culvert on State Highway 32, 0.2 mile south of Forest Ranch.	c.62	1963-70	1- 5-66	3.81	9.8
					1-21-67	4.49	25
					11-29-67	3.85	11
					1-21-69	4.70	31
					2-13-70	5.09	42
11390200	GOLD RUN TRIBUTARY NEAR NELSON, CALIF.	Lat 39°35'21", long 121°41'15", on west line of sec.18, T.20 N., R.3 E., Butte County, at culvert on U.S. Highway 99E, 4.8 miles northeast of Nelson.	1.31	1960-61‡, 1962-70	1- 5-66	3.34	73
					1-21-67	4.40	136
					3-13-68	3.27	82
					1-13-69	6.48	253
					1970	-	-
11390680	SALT CREEK NEAR WILLIAMS, CALIF.	Lat 39°06'30", long 122°18'20", in NW¼SE¼ sec.33, T.15 N., R.4 W., Colusa County, at culvert on State Highway 20, 9.2 miles southwest of Williams.	c13.0	1960-70	1- 4-66	21.41	156
					1-21-67	23.65	437
					1-30-68	25.62	723
					2-14-69	24.27	557
					1-23-70	25.28	684
11391423	COTTONWOOD CREEK NEAR SIERRAVILLE, CALIF.	Lat 39°32'50", long 120°19'05", in NE¼NW¼ sec.33, T.20 N., R.15 E., Sierra County, at culvert on State Highway 89, 4.5 miles south of Sierraville.	7.08	1963-70	4-11-66	2.53	15
					5- -67	4.01	83
					2-20-68	2.49	12
					5- -69	3.65	62
					1-23-70	3.53	56
11391480	COUNTY LINE CREEK NEAR LOYALTON, CALIF.	Lat 39°42'20", long 120°13'15", in NW¼NW¼ sec.5, T.21 N., R.16 E., Sierra County, at culvert on State Highway 49, 2.3 miles northeast of Loyalton.	.33	1964-70	1966	-	(b)
					3-14-67	4.84	29
					1-15-68	3.12	2.9
					1-21-69	5.67	36
					1970	-	-
11392300	WILLOW CREEK TRIBUTARY NEAR BLAIRSDEN, CALIF.	Lat 39°47'00", long 120°33'15", in SE¼ sec.7, T.22 N., R.13 E., Plumas County, at culvert on U.S. Highway 40 alternate, 3.3 miles east of Blairsden.	1.08	1963-70	3-13-66	4.61	12
					3-16-67	5.56	32
					2-21-68	4.87	17
					1-21-69	5.99	43
					1-23-70	5.76	37
11397900	BENNER CREEK NEAR CHESTER, CALIF.	Lat 40°23'02", long 121°16'24", in SE¼SE¼ sec.11, T.29 N., R.6 E., Plumas County, Lassen National Forest, at culvert on U.S. Forest Service Road 29 N 12, 5.6 miles northwest of Chester.	7.67	1970	1-23-70	6.29	182
11397970	LAKE ALMANOR TRIBUTARY NEAR ALMANOR, CALIF.	Lat 40°12'01", long 121°08'47", in SE¼NW¼ sec.13, T.27 N., R.7 E., Plumas County, Lassen National Forest, at culvert on State Highway 89, 1.8 miles southeast of Almanor.	1.66	1963-70	4-10-66	5.32	16
					(d)	6.11	35
					2-20-68	5.72	24
					1-13-69	6.86	59
					1-23-70	8.43	131
11401460	HOUGH CREEK NEAR CRESCENT MILLS, CALIF.	Lat 40°04'50", long 120°53'10", in NW¼SW¼ sec.29, T.26 N., R.10 E., Plumas County, at culvert on Plumas County Road A22, 1.6 miles southeast of Crescent Mills.	3.79	1963-70	4-10-66	2.87	36
					5- -67	3.37	84
					2-20-68	2.65	20
					1-21-69	3.76	140
					1-23-70	4.60	227
11402700	KINGSBURY CREEK NEAR TWAIN, CALIF.	Lat 40°01'15", long 121°04'15", in NW¼NE¼ sec.22, T.25 N., R.8 E., Plumas County, Plumas National Forest, at culvert on U.S. Highway 40 alternate, 2 miles west of Twain.	1.36	1963-70	2- 6-66	4.25	30
					7-16-67	11.75	391
					2-22-68	3.68	9.2
					1-21-69	4.50	60
					1-14-70	5.02	81
11403340	GRANITE CREEK AT TOBIN, CALIF.	Lat 39°57'05", long 121°18'00", in NW¼ sec.10, T.24 N., R.6 E., Plumas County, Plumas National Forest, at culvert on U.S. Highway 40 alternate, 0.9 mile northeast of Tobin and 7 miles southwest of Rich Bar.	.79	1963-70	2- 6-66	-	a12
					6- 1-67	7.53	36
					2-22-68	6.62	8.1
					1-21-69	7.59	37
					1-23-70	7.79	34
11407400	WYMAN RAVINE TRIBUTARY NEAR PALERMO, CALIF.	Lat 39°22'57", long 121°34'43", in SE¼ sec.25, T.18 N., R.3 E., Butte County, at culvert on county road, 4.1 miles southwest of Palermo.	1.72	1960-70	1- 5-66	10.43	20
					1-22-67	13.15	90
					2-20-68	10.53	20
					1-13-69	13.12	107
					1970	-	-
11412700	NORTH YUBA RIVER TRIBUTARY AT GOODYEARS BAR, CALIF.	Lat 39°32'31", long 120°53'46", in NE¼ sec.6, T.19 N., R.10 E., Sierra County, Tahoe National Forest, at culvert on State Highway 49, 0.7 mile west of Goodyears Bar.	.24	1963-70	1- 5-66	-	a5
					4-18-67	6.64	25
					1-15-68	5.78	8.4
					1-21-69	6.86	29
					1970	-	-

NOTE.--See footnotes at end of table.

Annual maximum discharge at crest-stage partial-record stations during water years 1966-70--Continued

SACRAMENTO RIVER BASIN--CONTINUED

Station number	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
11413950	SOUTH YUBA RIVER TRIBUTARY NEAR SODA SPRINGS, CALIF.	Lat 39°18'56", long 120°27'24", in NE¼NE¼ sec.25, T.17 N., R.13 E., Nevada County, at culvert on U.S. Highway 40, 4.3 miles west of Soda Springs.	c.92	1963-70	5- -66 3-16-67 4- -68 5- -69 5- -70	15.49 16.35 15.21 16.31 15.98	66 114 52 112 92
11420300	WILLOW GLEN CREEK NEAR RACKERBY, CALIF.	Lat 39°24'22", long 121°18'31", in NW¼ sec.21, T.18 N., R.6 E., Yuba County, at culvert on Willow Glen road, 2.8 miles southeast of Rackerby.	1.95	1963-70	11-18-65 12- 5-66 2-20-68 2-15-69 1-14-70	6.99 9.66 5.87 8.60 8.16	122 214 71 179 164
11423050	MAGNOLIA CREEK NEAR AUBURN, CALIF.	Lat 39°01'54", long 121°05'45", in SE¼ sec.28, T.14 N., R.8 E., Nevada County, at culvert on State Highway 49, 8.2 miles north of Auburn.	5.65	1963-70	2- 6-66 12- 2-66 2-20-68 1-26-69 1-21-70	4.76 5.61 5.38 6.70 6.99	138 261 231 413 456
11424500	DRY CREEK NEAR WHEATLAND, CALIF.	Lat 39°01'35", long 121°26'10", in Johnston Ranch land grant, Yuba County, 2,300 ft upstream from bridge on U.S. Highway 99E, 1.3 miles northwest of Wheatland, and 5 miles upstream from mouth.	99.9	1946-62‡, 1965-67	1966 1-21-67	6.93 11.79	1,240 5,290
11437560	KIRKWOOD CREEK NEAR SILVER LAKE, CALIF.	Lat 38°42'10", long 120°04'10", in SW¼NE¼ sec.22, T.10 N., R.17 E., Alpine County, Eldorado National Forest, at culvert on State Highway 88, 3.7 miles northeast of Silver Lake outlet.	3.62	1963-70	5- -66 9-18-67 5- -68 6- -69 5- -70	4.98 7.11 4.86 6.31 5.36	105 245 77 195 131
11449060	LYONS CREEK TRIBUTARY NEAR LAKEPORT, CALIF.	Lat 39°05'40", long 122°54'59", in NE¼ sec.1, T.14 N., R.10 W., Lake County, at culvert on Hill road, 3.3 miles north of Lakeport.	.16	1963-70	1-29-66 12- 4-66 1-29-68 12-10-68 1-23-70	11.56 11.48 11.36 11.54 12.08	22 21 19 22 30
11451530	PHIPPS CREEK NEAR LOWER LAKE, CALIF.	Lat 38°59'51", long 122°33'16", T.13 N., R.6 W., (unsurveyed), Lake County, at culvert on State Highway 20, 6.7 miles northeast of Lower Lake.	c3.10	1963-70	12-28-65 1-21-67 1-29-68 12-10-68 1-23-70	18.83 13.41 14.10 14.39 15.42	310 123 155 173 233
11451700	BEAR CREEK TRIBUTARY NEAR WILBUR SPRINGS, CALIF.	Lat 39°00'45", long 122°21'30", in SE¼ sec.36, T.14 N., R.5 W., Colusa County, at culvert on State Highway 20, 3.8 miles southeast of Wilbur Springs.	c4.49	1960-61, 1962-63‡, 1966-70	2- 8-60 2- 7-61 2- 3-66 1-21-67 1-30-68 2-25-69 1970	23.42 24.10 22.96 25.20 25.61 26.65 -	e111 e149 93 217 466 312 -
11453150	PUTAH CREEK TRIBUTARY NEAR WHISPERING PINES, CALIF.	Lat 38°47'10", long 122°41'30", in NE¼ sec.25, T.11 N., R.8 W., Lake County, at culvert on State Highway 29, 2 miles southeast of Whispering Pines.	c.25	1959-70	1- 4-66 1-21-67 1-30-68 1-21-69 1-23-70	12.06 12.01 11.84 11.49 13.34	33 32 29 23 54
11453700	CAPELL CREEK TRIBUTARY NEAR WOODEN VALLEY, CALIF.	Lat 38°26'05", long 122°12'15", in SW¼ sec.21, T.7 N., R.3 W., Napa County, at culvert on State Highway 37, 4 miles north of Wooden Valley.	.87	1959-61, 1962-65‡, 1966-70	1- 4-66 1-21-67 1-30-68 2-15-69 1-24-70	4.10 7.49 3.50 3.06 6.72	91 345 58 37 280
11453800	WRAGG CREEK NEAR WINTERS, CALIF.	Lat 38°25'52", long 122°09'28", in NW¼NE¼ sec.26, T.7 N., R.3 W., Napa County, at culvert on State Highway 128, 12 miles southwest of Winters.	c.74	1965-70	1- 4-66 1-21-67 1-15-68 1-25-69 1-14-70	5.45 7.77 5.26 8.54 7.43	100 221 91 271 202

‡ Operated as a continuous-record gaging station.
a Estimated.
b No flow during water year.
c Revised.
d Occurred Jan. 29 and in May 1967.
e Not previously published.

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