

*Joe H. Robles
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1974

Water Resources Data for California

Part 1. Surface Water Records

Volume 1: Colorado River Basin, Southern
Great Basin, and Pacific Slope Basins
excluding Central Valley.



**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

**Prepared in cooperation with the California Department
of Water Resources and with other agencies**

CALENDAR FOR WATER YEAR 1974

1973

OCTOBER

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1974

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SEPTEMBER

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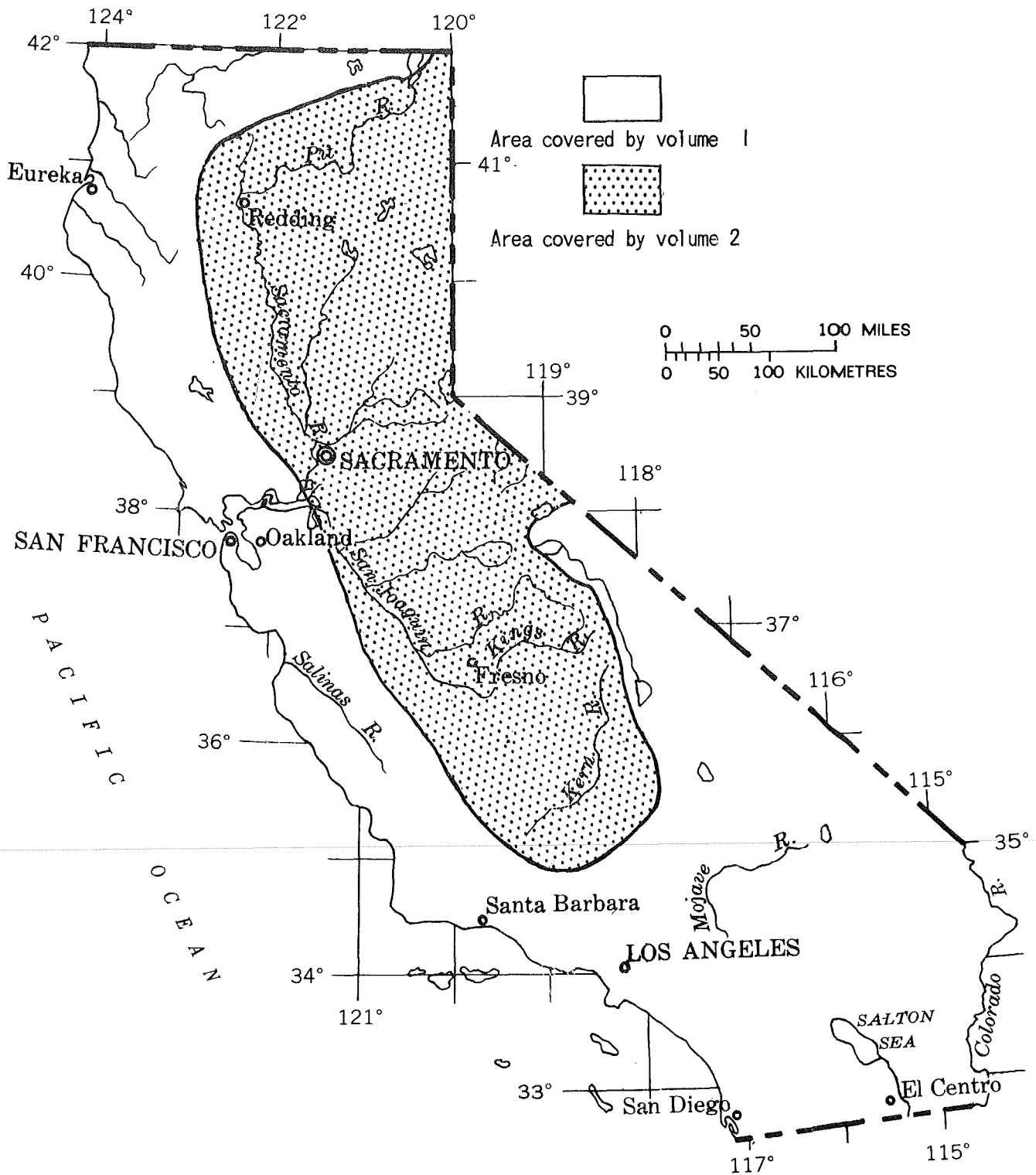
Water-resources records, 1974, for California are in the following reports of the U.S. Geological Survey:

1. Water Resources Data for California
Part 1: Surface Water Records
Volume 1: Colorado River Basin, Southern Great Basin, and Pacific Slope Basins excluding Central Valley
2. Water Resources Data for California
Part 1: Surface Water Records
Volume 2: Northern Great Basin and Central Valley
3. Water Resources Data for California
Part 2: Water Quality Records

Copies of these reports may be obtained from District Chief,
Water Resources Division
U.S. Geological Survey
855 Oak Grove Avenue
Menlo Park, California 94025

Prepared in cooperation with

California Department of Water Resources
California Department of Transportation
Alameda County Flood Control and Water Conservation District
Alameda County Water District
Berrenda Mesa Water District
Casitas Municipal Water District
Coachella Valley County Water District
Contra Costa County Flood Control and Water Conservation District
Desert Water Agency
East Bay Municipal Utility District
Georgetown Divide Public Utility District
Imperial Irrigation District
Kern County Water Agency
Lake County Flood and Water Conservation District
Los Angeles County Flood Control District
Los Angeles Department of Water and Power
Madera Irrigation District
Merced Irrigation District
Modoc County Department of Public Works
Montecito County Water District
Monterey County Flood Control and Water Conservation District
Napa County Flood Control and Water Conservation District
Orange County Flood Control District
Orange County Water District
Oroville-Wyandotte Irrigation District
Paradise Irrigation District
Rio San Diego Municipal Water District
Riverside County Flood Control and Water Conservation District
Sacramento County Department of Public Works, Water Resources Division
San Benito County Water Conservation and Flood Control District
San Bernardino Valley Municipal Water District
San Diego (city) Water Utilities
San Diego (county) Department of Sanitation and Flood Control
San Francisco, City and County, Hetch-Hetchy Water and Power
San Francisco, City and County Water Department
San Luis Obispo County Flood Control and Water Conservation District
San Mateo County
San Rafael, City of, Department of Public Works
Santa Barbara City Water Department
Santa Barbara County Flood Control and Water Conservation District
Santa Barbara County Water Agency
Santa Clara County Flood Control and Water District
Santa Cruz County Flood Control and Water Conservation District
Santa Maria Valley Water Conservation District
~~Santa Ynez River Water Conservation District~~
Siskiyou County Flood Control and Water Conservation District
Tehachapi-Cummings County Water District
Terra Bella Irrigation District
Tulare County Flood Control District
Turlock Irrigation District
United Water Conservation District
University of California (Berkeley)
University of California (Davis), Division of Environmental Studies
Ventura County Department of Public Works
Western Municipal Water District
Woodbridge Irrigation District
Yolo County Flood Control and Water Conservation District
Corps of Engineers, U.S. Army
Bureau of Reclamation, U.S. Department of the Interior
National Park Service, U.S. Department of the Interior
Forest Service, U.S. Department of Agriculture
Soil Conservation Service, U.S. Department of Agriculture
U.S. Atomic Energy Commission



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WATER RESOURCES DATA FOR CALIFORNIA, 1974

PART 1. SURFACE-WATER RECORDS

INTRODUCTION

Surface-water records for the 1974 water year for California, including records of streamflow or reservoir storage at gaging stations, partial-record stations, and miscellaneous sites, are given in this report. Records for a few pertinent gaging stations in bordering States also are included. The records were collected and computed by the Water Resources Division of the U.S. Geological Survey under the direction of Lee R. Peterson, district chief. These data represent that portion of the National Water Data System collected by the Geological Survey and cooperating State and Federal agencies in California.

Beginning with the 1961 water year, streamflow records and related data have been released by the Geological Survey in annual reports on a State-boundary basis. These reports are for limited distribution and are designed primarily for rapid release of data shortly after the end of the water year.

Records of discharge and stage of streams, and contents and stage of lakes and reservoirs are published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and since then are in a 5-year series. More information is given under the heading "Publications" on page 9.

COOPERATION

The U.S. Geological Survey and organizations of the State of California have had cooperative agreements for the systematic collection of surface-water records since 1903. Organizations that supplied data are acknowledged in station descriptions. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

California Department of Water Resources, J. R. Teerink, director.
 California Department of Transportation, Sam Helwer, director.
 Alameda County Flood Control and Water Conservation District,
 P. E. Lanferman, engineer-manager.
 Alameda County Water District, M. P. Whitfield, general manager-chief
 engineer.
 Berrenda Mesa Water District, H. R. Lampson, engineer-manager.
 Casitas Municipal Water District, Robert McKinney, general manager-chief
 engineer.
 Coachella Valley County Water District, L. O. Weeks, general manager-chief
 engineer.
 Contra Costa County Flood Control and Water Conservation District,
 C. C. Rich, chief engineer.
 Desert Water Agency, P. G. Payne, general manager.
 East Bay Municipal Utility District, J. S. Harnett, general manager.
 Georgetown Divide Public Utility District, C. F. Gierau, general manager.
 Imperial Irrigation District, R. F. Carter, general manager.
 Kern County Water Agency, S. T. Pyle, engineer-manager.
 Lake County Flood Control and Water Conservation District, W. D. Hansen,
 manager.
 Los Angeles County Flood Control District, C. F. Eshelby, division engineer.
 Los Angeles Department of Water and Power, J. V. Phillips, general manager
 and chief engineer.
 Madera Irrigation District, F. G. Bandy, secretary-manager.
 Merced Irrigation District, K. R. McSwain, chief engineer and manager.
 Modoc County Department of Public Works, J. K. Grove, director.
 Montecito County Water District, H. O. Neil Mendenall, general manager.
 Monterey County Flood Control and Water Conservation District,
 Loran Bunte, Jr., district engineer.
 Napa County Flood Control and Water Conservation District, Gene Norris,
 chairman.
 Orange County Flood Control District, H. G. Osborne, chief engineer.
 Orange County Water District, Neil G. Cline, secretary-manager.
 Oroville-Wyandotte Irrigation District, J. W. McDonald, general manager.
 Paradise Irrigation District, C. P. Kelly, manager.
 Rio San Diego Municipal Water District, E. W. Houser, manager-engineer.
 Riverside County Flood Control and Water Conservation District,
 J. W. Bryant, chief engineer.
 Sacramento County Department of Public Works, Water Resources Division,
 J. P. Alessandri, chief.
 San Benito County Water Conservation and Flood Control District,
 R. G. Towle, secretary.
 San Bernardino Valley Municipal Water District, J. A. Beaver, general
 manager.
 San Diego, City of, Water Utilities, R. E. Dodson, director.
 San Diego, County of, Department of Sanitation and Flood Control,
 C. J. Houson, director.
 San Francisco, City and County, Hetch-Hetchy Water and Power, O. L. Moore,
 general manager.
 San Francisco, City and County Water Department, A. H. Frye, Jr., general
 manager and chief engineer.
 San Luis Obispo County Engineering Department, G. C. Protopapas, county
 engineer.
 San Mateo County Flood Control District, V. K. Sanders, manager.

San Rafael, City of, Department of Public Works, Ely Caillovette, Jr., director.
 Santa Barbara City Water Department, R. W. Puddicombe, director.
 Santa Barbara County Flood Control and Water Conservation District, James Stubchaer, flood-control engineer.
 Santa Barbara County Water Agency, F. H. Beattie, board of directors chairman.
 Santa Clara Valley Water District, J. T. O'Halloran, general manager.
 Santa Cruz County Flood Control and Water conservation District, D. A. Porath, district engineer.
 Santa Maria Valley Water Conservation District, M. F. Twitchell, secretary.
 Santa Ynez River Conservation District, A. T. Petersen, president.
 Siskiyou County Flood Control and Water Conservation District, D. A. Gravenkamp, director of public works.
 Tehachapi-Cummings County Water District, R. J. Jasper, general manager.
 Terra Bella Irrigation District, J. E. Boudreau, engineer-manager.
 Tulare County Flood Control District, J. L. Carlsen, flood-control engineer.
 Turlock Irrigation District, R. S. Tillner, secretary-general manager.
 United Water Conservation District, R. A. Smith, general manager-chief engineer.
 University of California (Berkeley), A. S. Leopold, professor of zoology.
 University of California (Davis), Division of Environmental Studies, Dr. Robert Leonard, department of zoology.
 Ventura County Department of Public Works, J. B. Quinn, deputy director.
 Western Municipal Water District, H. A. Hicks, general manager.
 Woodbridge Irrigation District, Mabel Hall, secretary.
 Yolo County Flood Control and Water Conservation District, W. L. McAnlis, manager.

Assistance in the form of funds or services was given by the Corps of Engineers, U.S. Army; U.S. Navy; Bureau of Reclamation and National Park Service, U.S. Department of the Interior; Forest Service and Soil Conservation Service, U.S. Department of Agriculture; U.S. Atomic Energy Commission.

The following organizations aided in collecting records: Pacific Power and Light Co., Bear Valley Mutual Water Co., Metropolitan Water District of Southern California, Fontana Union Water Co., Rancho California, Pacific Gas and Electric Co., Placer County Water Agency, Sacramento Municipal Utility District, Southern California Edison Co., Merced, Modesto, Nevada, Oroville-Wyandotte, Oakdale-South San Joaquin, and Vista Irrigation Districts, and Yuba County Water Agency.

DEFINITION OF TERMS

Terms related to streamflow and other hydrologic data, as used in this report, are defined below. See also table for converting English units to International System of units (SI) on page 13.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or 325,851 gallons or 1,233 cubic metres.

Ft³/s-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, 1.9835 acre-feet, or 646,317 gallons or 2,445 cubic metres. It represents a runoff of 0.0372 inch from 1 square mile or 0.3468 millimetre from 1 square kilometre.

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 foot per second (FT^3/S , ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second, and is equivalent to 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic metres per second.

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

Mean discharge is the arithmetic average of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a given time.

Drainage area of a stream at 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 stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Gage height is the water-surface 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 only to those gaging stations where a continuous record of discharge is computed.

Partial-record station is a particular site where limited streamflow data are collected systematically over a period of years for use in hydrologic analyses.

Stage-discharge relation is the relation between gage height and the volume of water per unit of time, flowing in a channel.

WRD is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to previously published State annual basic-data reports.

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

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen 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:

DOWNSTREAM ORDER AND STATION NUMBERS

Records are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the list of gaging stations in the front of this report the rank of tributaries is indicated by indentation, each indentation representing one rank.

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 continuous-record 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 numbers to allow for new stations that may be established; hence the numbers are not consecutive. The complete 8-digit station number for each station, such as 11120800, which appears to the left of the station name includes the 2-digit part number "11" plus the 6-digit number "120800." In this report, the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural drainage lines. Records in this report are in Part 9 (Colorado River Basin), Part 10 (The Great Basin), and Part 11 (Pacific slope basins in California). All records for a drainage basin encompassing more than one State can be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

EXPLANATION OF SURFACE-WATER DATA

Collection and computation 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 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 a stream-gaging station rating tables giving the discharge for any stage are prepared from stage-discharge relation curves defined by discharge measurements. If extensions to the rating curves are necessary to define the extremes of discharge, 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 discharges 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 determined 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 stream-gaging stations the stage-discharge relation is affected by 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 determining 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 the 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 basic data. 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. A calendar for the current water year is shown on the reverse side of the front cover to facilitate finding the day of the week for any date.

The description of the gaging station 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 "LOCATIONS" 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. The maximum discharge (or contents) and the maximum gage height, the minimum discharge if there is little or no regulation (or the minimum contents), and the minimum gage height if it is significant are given under "EXTREMES." The minimum daily discharge is given if there is extensive regulation (also the minimum discharge and gage height if they are abnormally low). In the first paragraph headed "Current year:" the data given are for the complete current water year unless otherwise specified. In the second paragraph under "EXTREMES" headed "Period of record:" the data given are for the period of record given in the PERIOD OF RECORD paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or 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 nonrecording 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 maximum contents, it is given separately. Information pertaining to the accuracy of the discharge records, to conditions that affect the natural flow at the gaging station, and 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 also 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, 1933 stands for the water year October 1, 1932, to September 30, 1933. If no daily, monthly, or annual figures of discharge were revised, that 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.

Skeleton rating tables are published for stream-gaging stations where they serve a useful purpose and the dates of applicability can be easily identified.

Skeleton capacity tables are published for all reservoirs for which records of contents are published on a daily basis.

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 acre-feet (line headed "AC-FT").

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 discharges 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.

Peak discharges and their times of occurrence and corresponding gage heights for many stations are listed below the yearly summary. All independent peaks above the selected base are given. The base discharge, which is given in parentheses, is selected so that an average of about three peaks a year can be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subjected 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.

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 and miscellaneous sites are given in three tables at the end of the surface-water records in this report. The first is a table of discharge measurements at low-flow partial-record stations, the second is a table of annual maximum stage and discharge at crest-stage stations, and the third is a table of discharge measurements at miscellaneous sites.

Accuracy of data

The accuracy of discharge 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 interpretation 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 is 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 ft³/s; to tenths between 1.0 and 10 ft³/s; to whole numbers between 10 and 1,000 ft³/s; and to 3 significant figures above 1,000 ft³/s. 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 and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumptive use, regulation, evaporation, or other factors. 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 unadjusted losses (consumptive use, evaporation, seepage, etc.) are large in comparison with the observed discharge.

Publications

In each water-supply paper entitled, "Surface Water Supply of the United States" there is a list of numbers of preceding water-supply papers containing streamflow information for the area covered by that report. In addition, there is a list of numbers of water-supply papers containing detailed information on major floods in the area. Records for stations in California for the period October 1960 to September 1965, are in Water-Supply Papers 1926, 1927, 1928, 1929, 1930, and 1931.

Two series of summary reports entitled, "Compilation of Records of Surface Waters of the United States" have been published; the first series covers the entire period of record through September 1950, and the second series covers the period October 1950 to September 1960. These reports contain summaries of monthly and annual discharge and monthend storage 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 yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station. Records for stations in California are compiled in Water-Supply Papers 1313, 1314, 1315-A, and 1315-B through September 1950, and in 1733, 1734, and 1735 for October 1950 to September 1960.

Special reports on major floods or droughts or of other hydrologic studies for the area have been issued in publications other than water-supply papers. Information relative to these reports may be obtained from the district office.

Other data available

Occasionally, 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 also at the end of this report.

More detailed information 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 office. Many gaging-station records in California through 1968 have been analyzed to give several statistical

summaries: (1) the number of days in each year that the daily discharge was between selected limits (duration tables); (2) the lowest mean discharge for selected numbers of consecutive days in each year; and (3) the highest mean discharge for selected numbers of consecutive days in each year.

At or near some gaging stations, water-quality records also are collected. Data are obtained on the chemical quality of the stream water, on water temperature, on suspended-sediment concentration, and on the particle-size distribution of suspended sediment and bed material. These data are given in Part 2 of this report. Under the "REMARKS" paragraph of the gaging-station description, reference is made to water-quality records collected on a regular basis.

Records of discharge collected by agencies other than the Geological Survey

Records of discharge not published by the Geological Survey have been collected at numerous 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 is published in California Department of Water Resources Bulletin 157, "Index of Stream-Gaging Stations in and Adjacent to California." The Office of Water Data Coordination, Water Resources Division, U.S. Geological Survey, Reston, Virginia, 22092, maintains an index of such sites. Information on records at specific sites can be obtained upon request.

HYDROLOGIC CONDITIONS

Runoff during the water year was significantly above normal in all parts of the state north of the Santa Ana River basin. However, concern was evident during the early months of the water year as the generally deficient flows of the late months of the previous water year continued through October and into January.

Conditions changed abruptly early in January with the onset of a series of heavy storms. The first storm occurred along the south and central coast and produced serious mudflows and slides. This was followed by heavy storms in late January and in mid-March which moved across northern California and extended, in diminishing intensity, to the southern part of the Sierra Nevada. These storms contributed to near record precipitation over the northern watersheds. A high of 176.8 in (449 cm) of rain, the highest annual water year total ever recorded, was registered at Blue Creek Mountain in the Klamath River basin. Resulting runoff was excessive in the north coastal basins and in the north central valley producing extensive floods in the lower Eel River basin and in the Dunsmuir area of the upper Sacramento River basin. Seven counties were declared disaster areas.

Periodic cold storms in April increased the snowpack and maintained high runoff at the lower elevations. At the end of April, the snowpack varied from well above normal in northern California to near normal at the southern end of the Sierra Nevada Mountains.

Runoff from the northern Sierra Nevada was excessive during May, June, July, and August as the delayed warm weather melted the above normal snowpack. In contrast, runoff from the southern Sierras decreased to near normal by the end of August. Elsewhere, flows decreased seasonally to about normal except for the desert areas and the extreme south coastal basins which had not been significantly affected by the winter storms and remained below normal during most of the water year.

At the end of the water year, the runoff from the northern part of the Sierra Nevada remained above normal, but it was generally below normal in other areas in the State.

The areal trend in the total runoff in California for the 1974 water year is shown in figure 1, where the runoff is given as a percentage of the median runoff for the 30-year period, 1941-70. The circled figures on the map are the percentages for index stream-gaging stations in the various hydrographic areas. Runoff from river basins in the north coastal, north Central Valley, and the San Francisco Bay areas ranged from 180 to 380 percent. For the state, as a whole, the average was about 200 percent. Only in the area south of the Santa Ana River basin was the average runoff below the median figure.

SELECTED REFERENCES

- Carter, R. W., and Davidian, Jacob, 1968, General procedure for gaging streams: U.S. Geol. Survey Techniques Water-Resources Inv., book 3, chap. A6, 13 p.
- Corbett, D. M., and others, 1943, Stream-gaging procedure, a manual describing methods and practices of the Geological Survey: U.S. Geol. Survey Water-Supply Paper 888, 245 p.
- Langbein, W. B., and Iseri, K. T., 1960, General introduction and hydrologic definitions: U.S. Geol. Survey Water-Supply Paper 1541-A, 29 p.

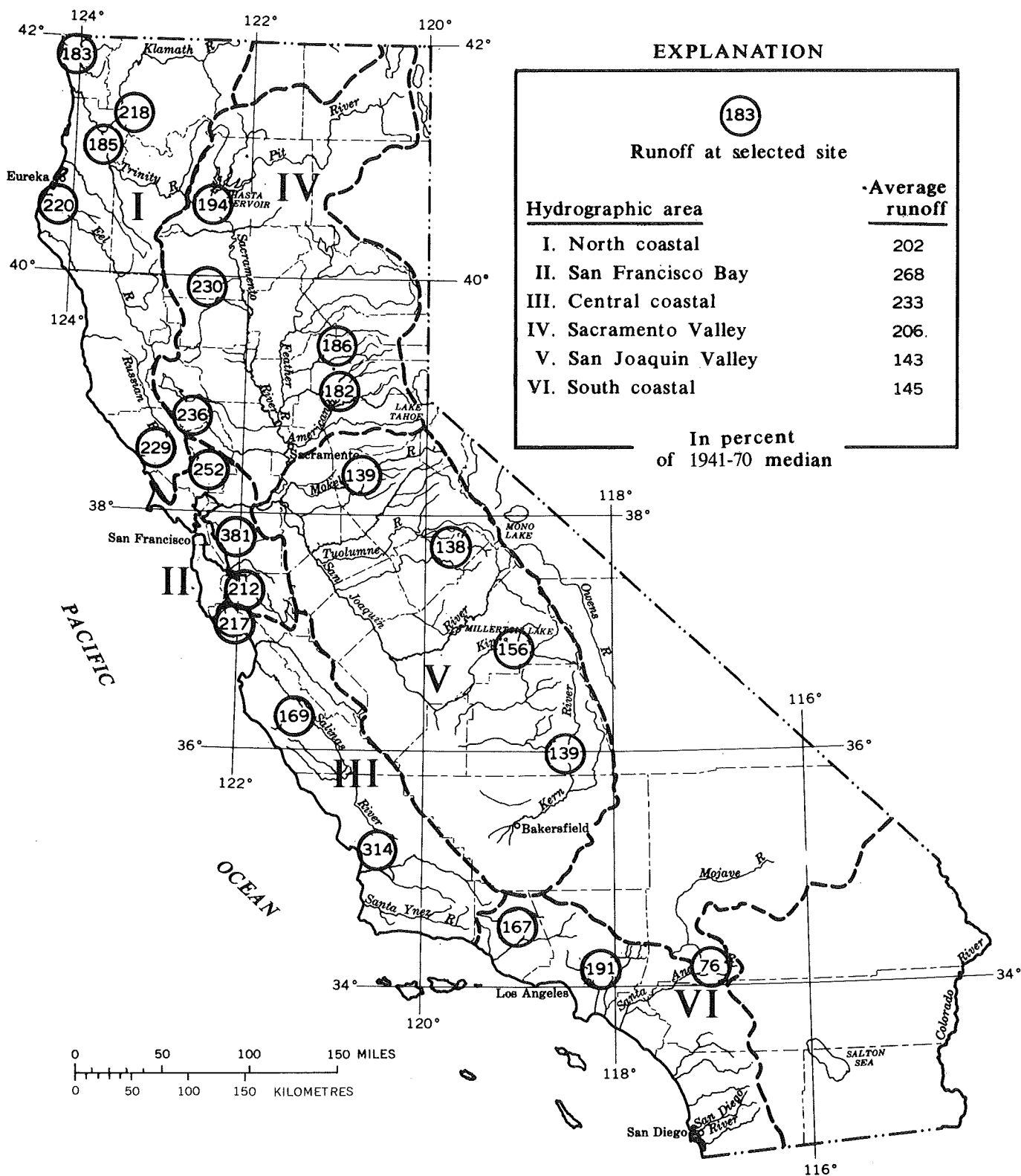


FIGURE 1.--Runoff for the current water year.

Table 1.--Factors for converting English units to International System (SI) units

The following factors may be used to convert the English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
<i>Length</i>		
inches (in)	25.4	millimetres (mm)
	.0254	metres (m)
feet (ft)	.3048	metres (m)
yards (yd)	.9144	metres (m)
rods	5.0292	metres (m)
miles (mi)	1.609	kilometres (km)
<i>Area</i>		
acres	4047	square metres (m ²)
	.4047	*hectares (ha)
	.4047	square hectometres (hm ²)
	.004047	square kilometres (km ²)
square miles (mi ²)	2.590	square kilometres (km ²)
<i>Volume</i>		
gallons (gal)	3.785	**litres (l)
	3.785	cubic decimetres (dm ³)
	3.785x10 ⁻³	cubic metres (m ³)
million gallons (10 ⁶ gal)	3785	cubic metres (m ³)
	3.785x10 ⁻³	cubic hectometres (hm ³)
cubic feet (ft ³)	28.32	cubic decimetres (dm ³)
	.02832	cubic metres (m ³)
cfs-days [(ft ³ /s) · d]	2447	cubic metres (m ³)
	2.447x10 ⁻³	cubic hectometres (hm ³)
acre-feet (acre-ft)	1233	cubic metres (m ³)
	1.233x10 ⁻³	cubic hectometres (hm ³)
	1.233x10 ⁻⁶	cubic kilometres (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	28.32	litres per second (l/s)
	28.32	cubic decimetres per second (dm ³ /s)
	.02832	cubic metres per second (m ³ /s)
gallons per minute (gpm)	.06309	litres per second (l/s)
	.06309	cubic decimetres per second (dm ³ /s)
	6.309x10 ⁻⁵	cubic metres per second (m ³ /s)
million gallons per day (mgd)	43.81	cubic decimetres per second (dm ³ /s)
	.04381	cubic metres per second (m ³ /s)
<i>Mass</i>		
tons (short)	.9072	tonnes (t)

*The unit hectare is approved for use with the International System (SI) for a limited time. See NBS Special Bulletin 330, p.15, 1972 edition.

**The unit litre is accepted for use with the International System (SI). See NBS Special Bulletin 330, p.13, 1972 edition.

09423500 COLORADO RIVER AT NEEDLES, CALIF.

LOCATION (revised).--Lat 34°51'06", long 114°36'33", in SE¼SE¼ sec.19, T.9 N., R.23 E., San Bernardino meridian, San Bernardino County, on right bank at Needles, 15 mi (24 km) upstream from gaging station near Topock, Ariz., 30 mi (48 km) downstream from Davis Dam, and 97 mi (156 km) downstream from Hoover Dam.

DRAINAGE AREA.--170,600 mi² (441,900 km²), approximately.

PERIOD OF RECORD.--April 1931 to current year (elevations only).

GAGE.--Water-stage recorder. Datum of gage is 400.00 ft (121.920 m) above mean sea level. Prior to May 15, 1942, at site 550 ft (170 m) downstream and May 15, 1942, to Feb. 16, 1969, at site 200 ft (60 m) upstream; at datum 66.23 ft (20.187 m) higher prior to Jan. 12, 1952, and at present datum thereafter.

EXTREMES.--Current year: Maximum elevation, 469.99 ft (143.253 m) July 2; minimum, 458.76 ft (139.830 m) Jan. 18.
Period of record: Maximum elevation, 475.77 ft (145.015 m) Nov. 30, 1944; minimum, 457.84 ft (139.550 m) Feb. 26, 1973.

REMARKS.--Flow regulated by Lake Mead since Feb. 1, 1935, and by Lake Mohave since Jan. 17, 1950.

REVISIONS (WATER YEARS).--WSP 1119: 1931-47.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63.88	62.30	61.86	61.64	64.72	64.44	66.80	67.06	66.51	67.74	67.10	65.40
2	64.86	61.89	61.49	62.00	64.72	64.78	66.93	66.69	65.54	68.14	67.07	65.76
3	64.52	61.94	61.89	62.74	64.40	64.11	66.72	65.64	66.09	67.20	67.76	65.75
4	64.44	61.95	62.29	62.33	64.06	65.26	66.77	66.38	66.15	66.91	66.26	65.71
5	64.88	61.95	63.15	62.09	64.17	65.89	67.30	65.59	65.97	67.67	67.44	65.43
6	64.10	62.28	62.60	61.45	63.58	66.70	68.11	66.79	65.87	68.09	67.65	65.45
7	63.65	64.14	61.80	60.07	63.97	65.28	66.25	67.47	66.02	66.24	66.95	65.41
8	63.99	63.57	62.04	59.86	63.97	64.56	67.59	66.68	65.90	66.96	66.92	65.40
9	64.14	63.35	61.82	59.63	63.14	64.91	67.97	64.75	65.78	67.78	67.20	65.42
10	63.90	63.06	61.72	59.87	62.42	62.88	67.83	65.52	65.72	66.74	66.48	65.56
11	63.62	62.57	63.04	59.61	61.53	63.85	67.89	66.48	66.36	67.03	65.84	65.76
12	63.98	62.23	64.20	59.66	63.25	65.24	67.90	65.53	65.72	66.76	66.75	65.78
13	64.04	63.07	63.28	59.99	63.38	64.65	67.87	65.82	66.20	67.79	67.71	66.24
14	63.15	62.68	63.03	59.22	64.01	64.66	65.87	66.37	66.33	66.25	67.53	66.43
15	63.27	62.88	63.29	60.14	64.06	64.00	67.12	66.29	67.14	67.84	67.37	65.55
16	64.48	62.93	62.52	58.93	63.53	64.86	67.81	65.94	66.01	68.12	67.38	66.24
17	65.62	62.94	62.13	58.86	63.14	65.16	67.85	65.29	66.63	67.30	66.25	65.73
18	66.08	62.42	62.95	59.34	63.31	65.63	68.05	65.32	66.53	66.58	65.41	66.26
19	64.56	61.65	62.88	59.97	63.82	67.14	67.90	65.36	66.33	65.95	66.27	64.82
20	63.73	62.54	62.84	59.98	63.55	67.91	68.06	65.56	66.93	65.67	66.69	65.62
21	62.97	62.73	62.54	60.30	63.52	67.69	66.01	65.37	-	63.95	67.57	64.86
22	62.54	62.35	62.64	61.27	63.78	67.78	67.55	65.64	-	62.80	66.97	63.25
23	62.93	62.83	61.73	61.64	65.50	67.98	68.09	65.08	-	65.10	66.60	64.10
24	62.86	62.24	61.61	61.71	64.21	66.40	68.09	65.55	-	66.37	66.11	65.42
25	62.80	62.57	62.45	62.20	64.97	66.92	67.54	65.42	-	66.45	65.31	64.81
26	63.04	60.81	61.24	63.42	64.77	67.56	67.08	62.72	-	66.52	65.92	64.74
27	63.11	60.45	61.74	63.49	64.43	67.19	67.52	-	-	67.98	66.19	63.38
28	62.74	60.68	61.65	65.02	64.97	67.12	66.02	-	66.68	66.63	65.94	64.25
29	62.32	60.69	61.68	65.59	-----	66.65	67.32	-	67.83	66.64	66.06	62.65
30	62.88	61.97	60.90	64.11	-----	66.75	67.61	-	66.01	68.42	66.07	63.58
31	63.22	-----	60.78	64.34	-----	65.77	-----	67.02	-----	67.67	66.18	-----
MEAN	63.75	62.32	62.25	61.31	63.89	65.80	67.38	-	-	66.82	66.68	65.16
MAX	66.08	64.14	64.20	65.59	65.50	67.98	68.11	-	-	68.42	67.76	66.43
MIN	62.32	60.45	60.78	58.86	61.53	62.88	65.87	-	-	62.80	65.31	62.65

COLORADO RIVER MAIN STEM

09424000 COLORADO RIVER NEAR TOPOCK, ARIZ.

LOCATION (revised).--Lat 34°41'15", long 114°27'43", in SW¼NW¼ sec.13, T.15 N., R.21 W., Gila and Salt River meridian, Mohave County, on left bank in Mohave Canyon, 2.4 mi (3.9 km) southeast of Topock, 39 mi (63 km) upstream from Parker Dam, and 45 mi (72 km) downstream from Davis Dam.

DRAINAGE AREA.--172,300 mi² (446,300 km²), approximately.

PERIOD OF RECORD.--January 1917 to current year. Daily mean elevations published since October 1938.

GAGE.--Water-stage recorder. Datum of gage is 423.02 ft (128.936 m) above mean sea level; gage readings have been reduced to elevations above mean sea level. Prior to Dec. 3, 1922, at site about 1 mi (2 km) upstream at different datum.

AVERAGE DISCHARGE.--17 years (1917-34), 20,260 ft³/s (573.8 m³/s), 14,670,000 acre-ft/yr (18,100 hm³/yr); 40 years (1934-74), 12,970 ft³/s (367.3 m³/s), 9,397,000 acre-ft/yr (11,600 hm³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 19,100 ft³/s (541 m³/s) July 3 (elevation, 455.86 ft or 138.946 m); minimum daily, 1,920 ft³/s (54.4 m³/s) Jan. 17; minimum elevation, 448.54 ft (136.715 m) for part of each day Jan. 16-18.

1917-34: Maximum discharge probably exceeded 200,000 ft³/s (5,660 m³/s) June 22, 1921; minimum, 1,480 ft³/s (41.9 m³/s) Aug. 17, 1934.

1934 to current year: Maximum discharge, 35,700 ft³/s (1,010 m³/s) Jan. 29, 1942; maximum elevation, 457.37 ft (139.406 m) July 9, 1959; minimum discharge, 375 ft³/s (10.6 m³/s) Feb. 14, 1935; minimum daily, 422 ft³/s (12.0 m³/s) Feb. 14, 1935.

Discharge of about 300,000 ft³/s (8,500 m³/s), based on determination at Lees Ferry gaging station, occurred about July 10, 1884. Discharge estimated to be in excess of 400,000 ft³/s (11,300 m³/s) probably occurred within the period 1857-68 and most likely in 1862.

REMARKS.--Records excellent. Many diversions above station for irrigation, municipal, and industrial uses. Flow regulated by Lake Mead since Feb. 1, 1935, and by Lake Mohave since Jan. 17, 1950.

REVISIONS (WATER YEARS).--WSP 918: 1921. WSP 1313: 1918-19(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9,270	7,010	6,160	5,670	10,200	10,600	13,300	16,100	15,100	15,500	16,300	13,400
2	11,300	6,140	5,570	5,630	10,600	10,600	14,600	15,500	14,000	17,500	15,000	12,400
3	10,600	5,870	5,040	7,410	10,700	10,800	14,500	14,400	13,700	16,900	16,100	13,100
4	10,800	5,890	6,630	6,710	9,340	9,930	14,300	14,800	14,400	15,800	15,600	12,900
5	11,400	5,850	7,710	6,990	10,200	12,500	15,000	14,500	14,300	16,400	14,800	12,700
6	10,800	5,830	7,740	6,370	8,890	13,600	16,500	14,400	14,000	17,600	16,400	12,500
7	10,000	8,720	5,820	3,420	9,470	13,100	15,300	16,400	14,400	16,000	15,900	12,600
8	9,400	8,620	6,340	3,380	9,750	10,700	14,600	16,000	14,100	15,000	15,300	12,500
9	10,200	8,340	6,460	2,840	9,340	11,000	16,600	13,300	14,000	17,200	15,600	12,000
10	10,200	8,130	5,040	2,850	7,490	9,450	16,700	13,500	13,400	15,600	15,000	13,000
11	9,230	7,370	7,560	2,900	5,130	7,440	16,800	14,700	14,500	15,700	14,200	12,700
12	9,530	6,030	9,080	2,430	8,120	11,700	16,900	14,400	14,100	15,500	13,400	12,700
13	10,500	7,740	9,350	3,110	8,590	10,800	16,700	13,800	14,100	16,200	16,200	13,600
14	9,090	7,180	7,960	2,490	9,270	10,700	15,000	14,800	14,900	16,000	16,500	14,300
15	7,610	7,520	8,440	3,060	10,100	10,200	13,800	15,000	15,200	15,600	16,500	13,300
16	10,400	7,570	8,570	2,120	9,170	10,700	16,000	14,800	15,300	17,700	16,300	12,900
17	12,200	7,630	5,940	1,920	8,820	12,500	16,700	13,900	13,900	17,100	15,100	13,100
18	13,100	7,380	7,880	1,950	7,560	11,800	17,100	13,700	15,600	15,900	13,000	14,000
19	12,200	5,450	7,760	2,750	9,860	14,300	17,100	13,900	14,900	14,400	13,000	11,500
20	10,200	6,810	7,860	2,870	8,740	15,700	17,200	13,600	15,200	14,400	14,100	12,600
21	8,690	7,160	7,940	2,940	8,870	15,900	15,500	13,700	15,900	12,700	16,100	12,700
22	7,180	7,010	7,360	4,200	8,720	15,800	14,500	13,600	16,700	7,990	15,600	9,120
23	7,850	7,140	6,830	5,210	10,800	15,900	16,900	13,500	16,100	12,100	15,000	8,890
24	7,740	6,500	5,300	5,200	10,700	14,600	17,300	13,400	14,600	13,800	14,100	12,000
25	7,710	7,830	7,790	5,680	10,200	13,100	16,900	14,100	16,600	14,500	12,700	11,100
26	7,800	4,800	5,180	7,960	11,100	14,600	16,000	13,900	17,100	14,100	12,300	12,100
27	7,830	4,090	6,530	8,280	10,500	15,100	16,200	13,400	16,600	16,500	13,800	9,910
28	8,150	4,000	5,860	9,470	10,800	14,000	15,300	13,800	15,600	15,900	13,400	9,550
29	6,220	3,990	6,100	12,800	-----	14,000	14,700	14,100	16,400	14,100	13,400	8,890
30	6,920	5,660	4,950	9,570	-----	14,100	16,400	15,100	15,600	17,200	13,500	8,770
31	8,260	-----	4,560	10,400	-----	12,900	-----	15,600	-----	17,000	13,600	-----
TOTAL	292,380	199,260	211,310	158,580	263,030	388,120	474,400	445,700	450,300	477,890	457,800	360,830
MEAN	9,432	6,442	6,816	5,115	9,394	12,520	15,810	14,380	15,010	15,420	14,770	12,030
MAX	13,100	8,720	9,350	12,800	11,100	15,900	17,300	16,400	17,100	17,700	16,500	14,300
MIN	6,220	3,990	4,560	1,920	5,130	7,440	13,300	13,300	13,400	7,990	12,300	8,770
AC-FT	579,900	395,200	419,100	314,500	521,700	769,800	941,000	884,000	893,200	947,900	908,000	715,700

CAL YR 1973 TOTAL 3,926,720 MEAN 10,760 MAX 17,300 MIN 2,440 AC-FT 7,789,000
WTR YR 1974 TOTAL 4,179,600 MEAN 11,450 MAX 17,700 MIN 1,920 AC-FT 8,290,000

COLORADO RIVER MAIN STEM

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09424000 COLORADO RIVER NEAR TOPOCK, ARIZ.--Continued

MEAN ELEVATION, IN FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52.31	51.36	50.99	50.64	52.67	52.88	53.88	54.85	54.56	54.67	54.79	53.71
2	53.02	50.96	50.69	50.62	52.81	52.90	54.34	54.66	54.18	55.32	54.36	53.34
3	52.77	50.83	50.41	51.49	52.82	52.94	54.31	54.25	54.07	55.12	54.73	53.61
4	52.79	50.85	51.21	51.19	52.31	52.64	54.23	54.42	54.31	54.73	54.53	53.53
5	52.98	50.84	51.71	51.34	52.63	53.57	54.47	54.31	54.30	54.94	54.29	53.47
6	52.74	50.82	51.72	51.06	52.11	53.97	54.98	54.27	54.18	55.33	54.81	53.38
7	52.46	52.15	50.79	49.49	52.35	53.79	54.54	54.96	54.31	54.77	54.63	53.40
8	52.22	52.11	51.05	49.48	52.46	52.92	54.35	54.83	54.20	54.45	54.43	53.38
9	52.51	51.99	51.09	49.14	52.29	53.02	55.00	53.88	54.19	55.18	54.54	53.21
10	52.52	51.90	50.36	49.16	51.53	52.40	55.04	53.97	53.97	54.64	54.32	53.55
11	52.16	51.57	51.60	49.22	50.36	51.60	55.07	54.41	54.36	54.64	54.01	53.47
12	52.28	50.93	52.24	48.91	51.80	53.30	55.09	54.27	54.19	54.55	53.74	53.45
13	52.64	51.73	52.32	49.41	51.99	52.96	55.05	54.09	54.19	54.80	54.70	53.76
14	52.09	51.46	51.76	48.99	52.28	52.94	54.43	54.42	54.49	54.72	54.78	54.03
15	51.49	51.63	51.95	49.37	52.62	52.74	54.04	54.50	54.58	54.60	54.76	53.69
16	52.61	51.66	51.98	48.71	52.25	52.93	54.81	54.45	54.61	55.28	54.70	53.54
17	53.29	51.68	50.79	48.56	52.11	53.57	55.05	54.12	54.16	55.06	54.30	53.61
18	53.64	51.57	51.69	48.58	51.60	53.33	55.16	54.06	54.70	54.65	53.55	53.94
19	53.26	50.63	51.64	49.19	52.53	54.22	55.16	54.11	54.48	54.16	53.55	53.00
20	52.60	51.31	51.68	49.27	52.10	54.70	55.22	54.00	54.59	54.16	53.96	53.40
21	52.00	51.47	51.72	49.29	52.17	54.77	54.64	54.03	54.83	53.55	54.63	53.45
22	51.35	51.40	51.47	50.03	52.11	54.74	54.31	54.03	55.09	51.74	54.48	52.12
23	51.66	51.46	51.22	50.56	52.94	54.76	55.11	54.00	54.89	53.33	54.27	52.03
24	51.62	51.16	50.44	50.52	52.91	54.32	55.23	53.94	54.39	53.96	53.95	53.19
25	51.61	51.77	51.65	50.75	52.72	53.79	55.10	54.21	55.06	54.19	53.47	52.88
26	51.66	50.28	50.38	51.80	53.06	54.32	54.80	54.13	55.22	54.07	53.30	53.23
27	51.67	49.90	51.07	51.92	52.85	54.51	54.87	53.93	55.05	54.89	53.85	52.41
28	51.83	49.85	50.74	52.39	52.96	54.11	54.54	54.11	54.72	54.66	53.69	52.30
29	50.95	49.83	50.86	53.60	-----	54.11	54.36	54.23	54.98	54.04	53.70	51.99
30	51.30	50.73	50.26	52.39	-----	54.14	54.95	54.57	54.69	55.10	53.75	51.98
31	51.91	-----	50.06	52.71	-----	53.72	-----	54.72	-----	55.05	53.79	-----
MEAN	52.26	51.20	51.21	50.32	52.33	53.57	54.74	54.28	54.52	54.53	54.21	53.20
MAX	53.64	52.15	52.32	53.60	53.06	54.77	55.23	54.96	55.22	55.33	54.81	54.03
MIN	50.95	49.83	50.06	48.56	50.36	51.60	53.88	53.88	53.97	51.74	53.30	51.98

CAL YR 1973 MEAN 52.78 MAX 55.05 MIN 48.54

WTR YR 1974 MEAN 53.03 MAX 55.33 MIN 48.56

NOTE.--Add 400.00 ft to obtain elevation above mean sea level.

DIVERSIONS FROM LAKE HAVASU

09424150. Colorado River aqueduct near Parker Dam, Ariz.-Calif.

LOCATION.--Lat 34°18'58", long 114°09'23", in NW¼SW¼ sec.28, T.3 N., R.27 E., San Bernardino meridian, in California, San Bernardino County, at intake pumping plant of Metropolitan Water District of Southern California on Lake Havasu, 1.8 mi (2.9 km) upstream from Parker Dam and 149 mi (240 km), revised, downstream from Hoover Dam.

PERIOD OF RECORD.--January 1939 to current year (monthly diversions only since October 1942). Published as a supplement to records for Colorado River below Parker Dam, 1942-50. Percolation return flow (monthly flow only) October 1964 to September 1973 (discontinued); prior to October 1964 miscellaneous measurements only.

GAGE.--Venturi meters in pressure lines at intake pumping plant.

AVERAGE DISCHARGE.--35 years, 848 ft³/s (24.02 m³/s), 614,400 acre-ft/yr (758 hm³/yr).

EXTREMES.--Period of record: Maximum daily diversion, 3,986 acre-ft (4.91 hm³), 2,010 ft³/s (56.9 m³/s) Oct. 25, 1970; no diversion at times.

REMARKS.--Pumping began Jan. 7, 1939. Figures of monthly diversion shown represent water pumped from Lake Havasu less return surface flow from Gene and Copper Basin Reservoirs. No water returned as surface flow from these reservoirs this year. Percolation return flow from Gene and Copper Basin Reservoirs is estimated as 14 acre-ft/day (17,300 m³/day) or 5,110 acre-ft (6.30 hm³) for the year for accounting purposes.

COOPERATION.--Diversion records furnished by Metropolitan Water District of Southern California.

MONTHLY DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Month	Diversions			
	Maximum	Minimum	Mean	Total
October.....	3,682	3,406	3,467	107,481
November.....	3,666	3,333	3,475	104,236
December.....	3,664	2,537	3,166	98,134
CAL YR 1973.....	3,740	1,592	3,069	1,120,140
January.....	3,581	2,635	3,227	100,044
February.....	2,909	1,113	1,620	45,372
March.....	3,635	2,956	3,361	104,205
April.....	3,673	3,357	3,479	104,377
May.....	3,872	2,446	3,499	108,475
June.....	3,600	3,430	3,501	105,016
July.....	3,619	3,355	3,468	107,514
August.....	3,655	2,622	3,449	106,908
September.....	3,631	3,018	3,429	102,866
WTR YR 1974.....	3,872	1,113	3,273	1,194,628

COLORADO RIVER MAIN STEM

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09427500 LAKE HAVASU NEAR PARKER DAM, ARIZ.-CALIF.

LOCATION.--Lat 34°18'58", long 114°09'23", in NW¼SW¼ sec.28, T.3 N., R.27 E., San Bernardino meridian, in California, San Bernardino County, at intake pumping plant for Colorado River aqueduct of Metropolitan Water District of Southern California, 1.8 mi (2.9 km) upstream from Parker Dam on Colorado River, and 149 mi (240 km), revised, downstream from Hoover Dam.

DRAINAGE AREA.--178,800 mi² (463,100 km²), approximately.

PERIOD OF RECORD.--July 1938 to current year. Published as Parker Reservoir near Parker Dam 1938.

GAGE.--Water-stage recorder. Datum of gage is 400.54 ft (122.085 m) above mean sea level. Gage readings have been reduced to elevations above mean sea level.

EXTREMES.--Current year: Maximum contents, 622,000 acre-ft (767 hm³) May 9 (elevation, 450.67 ft or 137.364 m); minimum, 520,900 acre-ft (642 hm³) Jan. 28 (elevation, 445.33 ft or 135.736 m).

Period of record: Maximum contents, 693,000 acre-ft (854 hm³), by temporary use of flashboards, Apr. 18, 1943, June 4, 1953; maximum elevation, 450.77 ft (137.395 m) June 26, 1958; minimum contents, 71,400 acre-ft (88.0 hm³) June 25, 1942 (elevation, 412.09 ft or 125.605 m).

REMARKS.--Lake is formed by concrete-arch dam; dam was completed and storage began July 1, 1938. Usable capacity, based on April 1957 re-survey by Bureau of Reclamation between elevations 430.54 ft (131.229 m) and 450.54 ft (137.325 m), 619,400 acre-ft (764 hm³) between elevations 400.54 ft (122.085 m), sill of regulating gates, and 450.54 ft (137.325 m), top of regulating gates. Prior to Oct. 1, 1956, different capacity table used. Dead storage, 28,600 acre-ft (35.3 hm³) below elevation 400.54 ft (122.085 m), based on original survey. About 0.07 ft (0.021 m) fall indicated between gage and Parker Dam under normal operating conditions. Drawdown below elevation 440.54 ft (134.277 m) not legally permissible except by consent of the Metropolitan Water District of Southern California or in an emergency affecting the safety of the dam. Lake is used for flood control, power development, re-regulation of river for irrigation demand, and as a basin from which water is pumped by Metropolitan Water District of Southern California to Colorado River aqueduct. Figures given herein represent usable contents. For record of diversion to Colorado River aqueduct, see record for Colorado River aqueduct near Parker Dam (sta 09424150).

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	557,300	555,400	556,900	543,400	536,800	550,100	565,000	610,200	611,800	604,400	584,400	574,700
2	557,100	554,600	557,100	539,300	538,400	549,500	566,700	612,400	610,200	605,600	581,500	573,000
3	557,300	553,500	549,700	541,100	540,500	547,600	569,000	610,600	608,800	611,200	581,100	573,000
4	558,800	552,100	547,900	544,100	541,100	542,700	570,900	609,800	609,000	612,200	582,300	574,300
5	560,300	547,000	549,900	549,000	546,700	544,300	569,600	609,400	610,800	609,600	580,400	575,800
6	560,900	542,700	554,400	555,800	548,600	549,900	570,300	607,400	611,200	609,200	583,400	574,300
7	558,600	545,900	551,700	557,300	552,400	557,100	569,600	611,600	611,000	606,200	585,700	573,200
8	555,400	549,400	550,600	560,000	555,200	559,000	565,800	617,000	611,400	603,200	585,700	571,300
9	555,000	551,900	550,100	560,200	557,300	564,600	568,000	617,000	611,200	604,400	586,800	568,200
10	556,700	553,900	544,300	560,300	556,000	565,600	569,700	613,400	608,800	604,000	585,900	567,500
11	556,700	553,900	542,700	560,900	548,800	557,500	573,900	612,800	609,200	604,600	581,900	566,700
12	555,400	549,700	546,100	560,200	547,000	559,400	577,700	611,000	610,400	602,400	575,400	567,100
13	555,800	550,100	551,500	560,900	547,400	562,000	577,700	608,400	611,400	599,800	574,700	565,900
14	553,000	550,600	551,000	560,300	549,400	564,400	577,700	609,400	611,400	597,800	576,200	567,300
15	546,700	552,400	551,700	560,900	551,300	559,200	574,300	611,200	611,000	594,200	578,900	568,600
16	546,300	551,300	551,700	559,600	550,600	554,400	576,200	616,000	611,400	598,400	582,100	567,600
17	550,300	549,400	547,600	555,000	550,600	553,700	581,100	614,000	609,200	602,200	583,600	570,700
18	559,400	548,500	548,100	551,000	545,800	548,500	588,200	611,200	609,400	606,200	579,600	574,300
19	566,300	545,400	549,900	547,700	547,400	547,900	588,600	610,200	608,400	611,200	574,500	573,900
20	567,600	544,300	553,700	543,600	547,600	550,100	590,800	609,000	609,400	611,400	573,200	574,100
21	566,500	547,000	559,200	541,600	549,400	557,100	591,600	609,000	611,000	607,800	575,600	576,400
22	563,300	549,900	566,700	537,700	547,900	558,400	588,900	610,000	614,200	596,400	579,600	570,500
23	562,900	552,100	565,000	536,600	547,900	560,200	591,200	613,400	614,200	594,200	580,000	564,600
24	561,800	556,500	559,000	534,100	546,800	561,500	595,800	612,000	610,000	593,800	578,100	566,300
25	562,900	561,800	558,400	527,800	544,100	558,800	601,200	611,600	610,000	597,400	574,500	568,600
26	561,600	562,000	554,800	526,100	546,100	559,400	601,800	611,800	613,800	593,000	570,500	572,800
27	560,000	560,300	554,600	521,500	548,500	565,400	603,400	608,800	616,400	591,800	570,500	573,400
28	559,600	556,900	553,500	521,500	551,200	571,600	603,800	606,000	613,400	589,500	571,400	572,000
29	556,000	553,700	555,400	530,500	-----	572,400	602,200	605,400	611,400	582,800	574,100	567,600
30	552,200	554,300	550,400	531,900	-----	572,600	606,200	608,200	608,400	582,700	575,800	562,500
31	553,900	-----	544,500	536,200	-----	569,200	-----	609,800	-----	584,200	574,900	-----
MAX	567,600	562,000	566,700	560,900	557,300	572,600	606,200	617,000	616,400	612,200	586,800	576,400
MIN	546,300	542,700	542,700	521,500	536,800	542,700	565,000	605,400	608,400	582,700	570,500	562,500
(a)	-8,100	+400	-9,800	-8,300	+15,000	+18,000	+37,000	+3,600	-1,400	-24,200	-9,300	-12,400

CAL YR 1973 MAX 617,400 MIN 531,700 a +4,100
WTR YR 1974 MAX 617,000 MIN 521,500 a +500

a Change in contents, in acre-feet.

COLORADO RIVER MAIN STEM

09427500 LAKE HAVASU NEAR PARKER DAM, ARIZ.-CALIF.--Continued

ELEVATION, IN FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	447.34	447.24	447.32	446.58	446.21	464.41	447.75	450.08	450.16	449.79	448.77	448.26
2	447.33	447.20	447.33	446.35	446.30	446.92	447.84	450.19	450.08	449.85	448.62	448.17
3	447.34	447.14	446.93	446.45	446.42	446.81	447.96	450.10	450.01	450.13	448.60	448.17
4	447.42	447.06	446.83	446.62	446.45	446.54	448.06	450.06	450.02	450.18	448.66	448.24
5	447.50	446.78	446.94	446.89	446.76	446.63	447.99	450.04	450.11	450.05	448.56	448.32
6	447.53	446.54	447.19	447.26	446.87	446.94	448.03	449.94	450.13	450.03	448.72	448.24
7	447.41	446.72	447.04	447.34	447.08	447.33	447.99	450.15	450.12	449.88	448.84	448.18
8	447.24	446.91	446.98	447.48	447.23	447.43	447.79	450.42	450.14	449.73	448.84	448.08
9	447.22	447.05	446.95	447.49	447.34	447.73	447.91	450.42	450.13	449.79	448.90	447.92
10	447.31	447.16	446.63	447.50	447.27	447.78	448.00	450.24	450.01	449.77	448.85	447.88
11	447.31	447.16	446.54	447.53	446.88	447.35	448.22	450.21	450.03	449.80	448.64	447.84
12	447.24	446.93	446.73	447.49	446.78	447.45	448.42	450.12	450.09	449.69	448.30	447.86
13	447.26	446.95	447.03	447.53	446.80	447.59	448.42	449.99	450.14	449.56	448.26	447.80
14	447.11	446.98	447.00	447.50	446.91	447.72	448.42	450.04	450.14	449.46	448.34	447.87
15	446.76	447.08	447.04	447.53	447.02	447.44	448.24	450.13	450.12	449.28	448.48	447.94
16	446.74	447.02	447.04	447.46	446.98	447.19	448.34	450.37	450.14	449.49	448.65	447.89
17	446.96	446.91	446.81	447.22	446.98	447.15	448.60	450.27	450.03	449.68	448.73	448.05
18	447.45	446.86	446.84	447.00	446.71	446.86	448.97	450.13	450.04	449.88	448.52	448.24
19	447.82	446.69	446.94	446.82	446.80	446.83	448.99	450.08	449.99	450.13	448.25	448.22
20	447.89	446.63	447.15	446.59	446.81	446.95	449.11	450.02	450.04	450.14	448.18	448.23
21	447.83	446.78	447.44	446.48	446.91	447.33	449.15	450.02	450.12	449.96	448.31	448.35
22	447.66	446.94	447.84	446.26	446.83	447.40	449.01	450.07	450.28	449.39	448.52	448.04
23	447.64	447.06	447.75	446.20	446.83	447.49	449.13	450.24	450.28	449.28	448.54	447.73
24	447.58	447.30	447.43	446.06	446.77	447.56	449.36	450.17	450.07	449.26	448.44	447.82
25	447.64	447.58	447.40	445.71	446.62	447.42	449.63	450.15	450.07	449.44	448.25	447.94
26	447.57	447.59	447.21	445.62	446.73	447.45	449.66	450.16	450.26	449.22	448.04	448.16
27	447.48	447.50	447.20	445.36	446.86	447.77	449.74	450.01	450.39	449.16	448.04	448.19
28	447.46	447.32	447.14	445.36	447.01	448.10	449.76	449.87	450.24	449.04	448.09	448.12
29	447.27	447.15	447.24	445.86	-----	448.14	449.68	449.84	450.14	448.69	448.13	447.89
30	447.07	447.18	446.97	445.94	-----	448.15	449.88	449.98	449.99	448.68	448.32	447.62
31	447.16	-----	446.64	446.18	-----	447.97	-----	450.06	-----	448.76	448.27	-----
MEAN	447.37	447.05	447.08	446.70	446.83	447.93	448.67	450.12	450.12	449.59	448.47	448.04
MAX	447.89	447.59	447.84	447.53	447.34	464.41	449.88	450.42	450.39	450.18	448.90	448.35
MIN	446.74	446.54	446.54	445.36	446.21	446.54	447.75	449.84	449.99	448.68	448.04	447.62

CAL YR 1973.....MAX 450.44 MIN 445.93

WTR YR 1974.....MAX 464.41 MIN 445.36

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LOCATION.--Lat 34°17'44", long 114°08'22", in NW¼NW¼ sec.3, T.2 N., R.27 E., San Bernardino meridian, in California, San Bernardino County, on north end of powerplant at Parker Dam, 13 mi (21 km) northeast of Parker, Ariz., and 14 mi (23 km) upstream from Headgate Rock Dam.

PERIOD OF RECORD.--February to September 1934 (gage heights and fragmentary discharge records), October 1934 to current year. Prior to October 1937, published as "near Parker, Ariz."

GAGE.--Water-stage recorder. Datum of gage is 300.54 ft (91.605 m) above mean sea level. Prior to Oct. 1, 1967, at site 3.8 mi (6.1 km) downstream at datum 346.23 ft (105.531 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 19,200 ft³/s (544 m³/s) Apr. 18 (gage height, 71.88 ft or 21.909 m); maximum gage height, 72.18 ft (22.000 m) Aug. 17; minimum daily discharge, 1,220 ft³/s (34.6 m³/s) Jan. 16.

Period of record: Maximum discharge, 42,400 ft³/s (1,200 m³/s) Feb. 8, 1937; no flow at Parker Dam for parts of several days in 1942 when gates in dam were closed; minimum daily discharge, 1,220 ft³/s (34.6 m³/s) Jan. 16, 1974.

An unregulated discharge of probably less than 1,350 ft³/s (38.2 m³/s) occurred Aug. 18, 1934 (lowest unregulated discharge since 1917 and probably since a much earlier date).

REMARKS.--Records excellent except those below 2,000 ft³/s (57 m³/s), which are good. Flow regulated by Lake Mead since Feb. 1, 1935, Lake Mohave since Jan. 17, 1950, and by Lake Havasu since July 1, 1938. Many diversions above station. For record of diversion to Colorado River aqueduct and return flows, see record for Colorado River aqueduct near Parker Dam (sta 09424150). Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9,950	4,660	3,610	5,790	9,170	10,200	13,500	13,100	12,700	15,600	14,800	12,200
2	9,820	4,890	4,030	6,120	9,090	10,400	13,200	12,700	13,200	15,500	15,300	11,800
3	9,270	4,480	6,390	5,110	8,910	11,400	12,600	13,500	12,300	13,600	15,200	11,700
4	8,490	5,240	6,240	4,390	8,420	11,300	12,700	13,300	12,100	13,600	14,300	9,910
5	8,690	6,890	5,020	3,700	7,780	11,100	14,800	13,400	11,700	16,100	14,100	10,400
6	8,950	6,620	4,100	2,030	7,140	9,920	15,200	13,400	11,500	16,100	13,300	11,500
7	9,340	5,830	5,720	2,120	6,920	8,890	15,500	12,800	11,900	15,600	13,200	11,800
8	9,310	5,800	5,360	1,660	7,920	10,300	15,500	11,900	12,200	15,200	13,300	11,900
9	8,660	5,800	5,200	1,380	7,730	7,780	15,400	11,100	12,000	14,800	13,500	11,800
10	7,340	5,910	6,540	1,550	7,550	8,570	15,000	13,300	12,200	14,200	13,900	11,500
11	7,310	6,100	6,680	1,510	7,890	10,300	14,500	13,000	12,100	14,000	14,700	11,400
12	8,120	6,420	5,750	1,420	8,040	9,780	15,000	12,900	11,600	14,900	14,400	11,000
13	8,570	6,220	5,330	1,320	8,020	8,860	15,700	12,700	11,000	15,300	14,700	12,000
14	8,810	5,600	6,780	1,290	7,700	8,840	15,100	12,300	13,000	15,800	14,200	12,300
15	8,810	5,310	6,670	1,270	8,720	11,900	14,700	11,600	13,300	15,500	13,700	9,190
16	8,830	6,630	7,150	1,220	8,550	11,700	14,300	10,900	13,600	14,500	13,500	11,700
17	8,310	6,910	6,410	2,770	8,700	12,200	13,800	12,500	13,300	14,000	13,200	10,600
18	7,210	6,760	6,130	1,900	9,080	13,500	13,300	12,500	13,600	12,300	13,400	10,600
19	7,600	6,040	5,320	2,920	9,010	13,700	15,800	12,500	13,700	12,200	13,900	10,200
20	7,940	5,190	4,470	3,660	8,130	13,400	15,600	11,900	13,200	12,200	13,700	10,700
21	7,740	4,710	4,010	3,980	7,260	12,000	15,000	11,500	13,900	12,000	13,600	10,300
22	6,830	3,970	2,460	3,830	9,020	14,300	15,000	10,700	13,900	11,000	12,400	10,700
23	6,560	4,780	6,500	4,160	11,200	14,100	14,800	10,000	14,700	11,000	13,500	9,860
24	6,270	3,200	6,920	4,710	11,000	13,500	14,400	11,400	14,900	12,200	13,900	9,050
25	5,600	3,340	6,480	7,270	11,100	13,400	13,800	12,100	15,500	11,300	13,500	8,210
26	6,790	3,370	5,470	8,100	10,200	12,800	14,900	12,100	14,500	14,300	11,900	7,960
27	6,770	3,200	5,190	8,150	9,410	11,800	14,600	12,100	14,100	15,500	12,200	8,210
28	6,790	4,220	5,310	7,550	9,060	10,400	14,300	12,500	15,200	15,800	11,100	8,070
29	6,750	3,870	4,080	7,440	-----	12,600	14,300	12,200	15,900	16,000	10,900	8,970
30	6,740	3,640	6,180	8,050	-----	13,300	13,400	12,000	15,800	15,800	9,960	9,310
31	5,860	-----	6,110	6,900	-----	13,000	-----	13,300	-----	14,900	12,400	-----
TOTAL	244,030	156,100	171,610	123,270	242,720	355,440	435,700	381,200	398,600	440,800	415,660	314,840
MEAN	7,872	5,203	5,536	3,976	8,669	11,470	14,520	12,300	13,290	14,220	13,410	10,490
MAX	9,950	6,910	7,150	8,150	11,200	14,300	15,800	13,500	15,900	16,100	15,300	12,300
MIN	5,600	3,200	2,460	1,220	6,920	7,780	12,600	10,000	11,000	11,000	9,960	7,960
AC-FT	484,000	309,600	340,400	244,500	481,400	705,000	864,200	756,100	790,600	874,300	824,500	624,500
CAL YR 1973	TOTAL 3,451,920		MEAN 9,457		MAX 15,300		MIN 2,010		AC-FT 6,847,000			
WTR YR 1974	TOTAL 3,679,970		MEAN 10,080		MAX 16,100		MIN 1,220		AC-FT 7,299,000			

TRIBUTARIES AND DIVERSIONS BETWEEN PARKER DAM AND PALO VERDE DAM

09429000 PALO VERDE CANAL NEAR BLYTHE, CALIF.

LOCATION.--Lat 33°43'55", long 114°30'40", in NW¼NE¼ sec.19, T.5 S., R.24 E., San Bernardino meridian, Riverside County, at canal intake structure on west side of Palo Verde Diversion Dam, 10 mi (16 km) northeast of Blythe, and 44 mi (71 km) downstream from Headgate Rock Dam.

PERIOD OF RECORD.--January 1922 to December 1923, January 1925 to current year (prior to October 1950, monthly discharge only).

GAGE.--Recording gages above and below intakes to record head. Since May 18, 1964, recorder to show gate openings. Datum of gage is: Forebay gage, at mean sea level; tailrace gage, 274.13 ft (83.555 m) above mean sea level. Aug. 7, 1950, to Nov. 30, 1952, water-stage recorder on tailrace and auxiliary recorder 0.5 mi (0.8 km) downstream and Dec. 1, 1952, to Oct. 28, 1957, recording gage above and below former intake structure 0.2 mi (0.3 km) upstream, at different datums.

AVERAGE DISCHARGE.--24 years (1950-74), 1,200 ft³/s (33.98 m³/s), 869,400 acre-ft/yr (1,070 hm³/yr).

EXTREMES.--Period of record: Maximum daily discharge, 2,180 ft³/s (61.7 m³/s) Aug. 7, 1962; no flow at times.

REMARKS.--Records good. Daily diversions computed on basis of head on intake gates and gate openings. Records published herein represent flow diverted from Colorado River for irrigation of 91,582 acres (371 km²) during the 1973 calendar year. Return flows to Colorado River are measured by 11 wasteways and drains extending throughout the project; 5 of these are equipped with water-stage recorder and Parshall flume, 3 are equipped with Sparling flowmeters. Return flows have not been subtracted; combined monthly return flows are given in table below.

REVISIONS (WATER YEARS).--WSP 1213: 1946-48.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	956	989	568	744	1,050	1,500	1,270	1,810	1,630	1,810	1,710	1,620
2	989	898	551	1,010	1,230	1,480	1,420	1,830	1,570	1,780	1,560	1,750
3	1,080	809	706	1,100	1,070	1,390	1,540	1,850	1,560	1,860	1,620	1,700
4	1,050	804	734	997	1,060	1,410	1,560	1,840	1,570	1,830	1,440	1,680
5	1,010	930	775	238	1,130	1,360	1,620	1,700	1,680	1,890	1,400	1,500
6	975	988	798	0	1,140	1,270	1,600	1,670	1,710	1,960	1,380	1,580
7	978	923	770	0	1,160	1,180	1,550	1,650	1,700	1,740	1,420	1,540
8	964	956	697	0	1,220	1,200	1,620	1,750	1,670	1,830	1,530	1,500
9	1,100	985	645	0	1,100	980	1,620	1,740	1,570	1,920	1,580	1,570
10	1,210	878	742	0	912	759	1,670	1,810	1,580	1,870	1,510	1,730
11	1,160	817	776	0	1,020	745	1,630	1,720	1,590	1,830	1,480	1,730
12	1,030	917	720	511	971	836	1,610	1,660	1,630	1,780	1,700	1,760
13	1,050	898	855	513	1,090	992	1,610	1,730	1,770	1,710	1,750	1,770
14	1,020	930	816	473	1,180	1,080	1,510	1,770	1,760	1,540	1,710	1,720
15	1,050	992	742	452	1,200	1,210	1,710	1,780	1,770	1,690	1,710	1,570
16	1,080	1,030	661	479	1,120	1,300	1,740	1,820	1,730	1,670	1,740	1,680
17	1,060	937	739	540	1,000	1,130	1,790	1,750	1,810	1,740	1,950	1,780
18	931	773	745	566	1,090	1,250	1,830	1,610	1,790	1,830	1,680	1,740
19	968	793	789	546	1,140	1,380	1,850	1,530	1,960	1,900	1,830	1,680
20	911	718	861	537	1,140	1,470	1,810	1,460	1,980	1,780	1,680	1,620
21	855	756	872	603	1,150	1,600	1,630	1,460	1,880	1,720	1,660	1,510
22	890	645	723	610	1,260	1,540	1,700	1,460	1,720	1,680	1,690	1,430
23	1,090	657	627	673	1,360	1,390	1,670	1,440	1,580	1,620	1,740	1,520
24	1,150	610	530	892	1,360	1,390	1,710	1,430	1,750	1,630	1,630	1,370
25	1,080	494	400	977	1,400	1,490	1,750	1,450	1,750	1,670	1,330	1,330
26	941	553	572	951	1,360	1,490	1,720	1,320	1,800	1,860	1,560	1,410
27	874	539	560	954	1,500	1,500	1,650	1,450	1,820	1,700	1,700	1,280
28	758	654	745	1,020	1,450	1,500	1,540	1,480	1,770	1,670	1,820	1,150
29	848	660	824	1,020	-----	1,410	1,660	1,520	1,900	1,810	1,830	1,100
30	1,020	676	820	1,030	-----	1,360	1,740	1,590	1,780	1,770	1,780	1,180
31	988	-----	736	1,040	-----	1,290	-----	1,650	-----	1,800	1,700	-----
TOTAL	31,066	24,269	22,099	18,476	32,863	39,882	49,330	50,730	51,780	54,890	50,720	46,500
MEAN	1,002	809	713	596	1,174	1,287	1,644	1,636	1,726	1,771	1,636	1,550
MAX	1,210	1,030	872	1,100	1,500	1,600	1,850	1,850	1,980	1,960	1,850	1,780
MIN	758	494	400	0	912	745	1,270	1,320	1,560	1,540	1,330	1,100
AC-FT	61,620	48,140	43,830	36,650	65,180	79,110	97,850	100,600	102,700	108,900	100,600	92,230
(a)	40,480	37,790	34,310	30,960	30,570	37,860	38,970	44,760	40,890	43,710	45,270	45,200

CAL YR 1973 TOTAL 463,945.00 MEAN 1,271 MAX 2,100 MIN 0 AC-FT 920,200 a 454,900
 CAL YR 1974 TOTAL 472,605.00 MEAN 1,295 MAX 1,980 MIN 0 AC-FT 937,400 a 470,800

a Return flows, in acre-feet, to Colorado River.

LOCATION.--Lat 33°43'55", long 114°30'40", in NW¼NE¼ sec.19, T.5 S., R.24 E., San Bernardino meridian, in California, Riverside County, on west side of Palo Verde Diversion Dam, 10 mi (16 km) northeast of Blythe, Calif.. and 44 mi (71 km) downstream from Headgate Rock Dam.

PERIOD OF RECORD.--April 1969 to current year. If records (available in files of Tucson district office) for the two Colorado River Indian Reservation drains entering below Palo Verde Dam are added to records for this station, records equivalent to those published 1956-69 as Colorado River below Palo Verde Dam can be obtained.

AVERAGE DISCHARGE.--5 years, 7,300 ft³/s (206.7 m³/s), 5,289,000 acre-ft/yr (6,520 hm³/yr).

REMARKS.--Records excellent. Record does not include diversion to Palo Verde Canal. (See elsewhere in this report.) Daily discharge computed from relation between discharge, head, and gate openings. Many diversions above station for irrigation, municipal, and industrial uses. Flow regulated by Lake Mead, Lake Mohave, and Lake Havasu.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8,100	4,440	3,140	4,790	5,830	6,840	10,700	9,290	9,840	12,100	11,500	9,330
2	7,660	3,440	3,070	4,260	7,370	7,340	10,800	8,950	9,770	12,500	12,200	9,210
3	7,500	3,640	3,370	4,540	7,510	7,550	10,300	9,100	9,860	11,000	12,100	8,900
4	7,070	3,800	5,050	3,480	7,280	8,280	9,830	9,450	9,480	10,300	12,300	8,650
5	6,510	3,950	5,090	4,600	6,830	8,560	9,920	9,490	9,020	11,600	11,700	8,290
6	6,640	5,180	3,800	3,750	6,080	8,430	11,500	9,540	8,730	12,500	11,600	7,960
7	6,850	5,070	3,480	2,550	5,610	7,350	11,900	9,430	8,750	12,500	10,400	8,940
8	7,230	4,350	4,590	2,650	5,280	7,120	11,500	8,640	9,120	12,100	10,400	9,240
9	7,010	4,310	4,410	2,300	6,200	7,890	11,700	8,070	8,920	11,700	11,100	9,170
10	6,320	4,430	4,270	2,000	6,230	6,200	11,800	8,120	9,510	11,300	11,000	8,860
11	5,410	4,570	5,260	1,700	6,080	7,320	12,000	9,100	9,400	11,000	11,700	8,880
12	5,600	4,650	5,470	1,340	6,700	7,830	11,200	9,340	9,340	11,300	11,900	8,420
13	6,140	4,900	4,630	1,320	6,280	7,860	11,600	8,970	8,400	11,800	11,600	8,550
14	6,640	4,670	4,330	1,330	5,930	7,220	12,000	8,560	8,690	12,400	11,400	9,140
15	6,920	4,120	5,640	1,330	6,050	6,930	11,300	8,490	10,000	12,300	11,100	9,550
16	6,460	3,880	5,580	1,290	6,700	9,280	10,700	7,710	10,200	12,200	10,600	9,530
17	6,650	5,150	5,790	1,240	6,790	9,490	10,300	7,750	10,400	11,400	10,300	8,860
18	6,490	5,590	5,210	1,450	6,780	9,910	9,950	8,660	10,300	9,930	10,600	7,880
19	5,310	5,240	4,880	1,700	7,050	10,800	10,600	8,900	9,820	9,450	10,100	9,280
20	5,830	4,830	4,020	2,710	6,810	10,600	11,900	8,910	10,000	9,890	10,900	8,100
21	6,250	4,170	3,170	3,070	6,250	10,100	11,600	8,590	10,600	9,520	10,700	8,400
22	6,040	3,710	2,780	3,310	5,490	9,670	11,400	8,270	10,700	9,260	9,530	7,170
23	5,100	3,460	2,280	3,360	6,950	11,500	11,300	7,780	11,100	7,710	9,690	8,430
24	4,830	3,790	5,380	3,390	8,460	11,200	10,900	7,460	11,800	8,490	10,600	7,970
25	4,730	2,860	5,930	3,720	8,370	10,600	10,400	8,340	11,600	9,320	10,800	6,970
26	4,740	3,020	5,720	5,990	8,190	10,600	10,500	9,060	11,800	9,170	10,300	6,800
27	5,160	3,030	4,450	6,730	7,210	9,990	11,100	8,940	10,800	12,300	9,880	6,360
28	5,360	2,860	4,060	6,680	6,820	8,980	10,900	8,850	10,900	12,500	9,130	6,740
29	5,390	3,630	3,900	6,460	-----	8,230	10,900	8,980	12,800	12,500	8,160	6,790
30	5,210	3,210	3,310	5,900	-----	10,300	10,500	8,720	11,900	12,400	7,880	7,470

COLORADO RIVER MAIN STEM

09429490. Colorado River above Imperial Dam, Ariz.-Calif.

LOCATION.--Lat 32°52'59", long 114°27'55", at Imperial Dam. The Arizona end of the dam is in SW¼NW¼ sec.30, T.6 S., R.21 W., Gila and Salt River meridian; the California end is in NW¼SW¼ sec.9, T.15 S., R.24 E., San Bernardino meridian. Imperial Dam is 5 mi (8 km) upstream from Laguna Dam, 15 mi (24 km) northeast of Yuma, Ariz., 90 mi (145 km) downstream from Palo Verde Dam, and 147 mi (237 km) downstream from Parker Dam.

DRAINAGE AREA.--184,600 mi² (478,100 km²), approximately.

PERIOD OF RECORD.--1903-34 (yearly discharge only, published in WSP 1313), July 1934 to current year (monthly discharge only since October 1942). Prior to October 1942 published as "near Picacho, Calif." October 1942 to September 1971 published as "at Imperial Dam" (monthly discharge shown as "flow reaching Imperial Dam," listed as supplement to "flow passing Imperial Dam").

GAGE.--None. This record is synthesized from records of several other stations (see REMARKS). July 13, 1934, to Sept. 30, 1942, water-stage recorder at site 14.5 mi (23.3 km) upstream at datum 167.38 ft (51.017 m) above mean sea level.

AVERAGE DISCHARGE.--40 years (1934-74), 11,250 ft³/s (318.6 m³/s), 8,151,000 acre-ft/yr (10,100 hm³/yr).

EXTREMES.--1934-74: Maximum discharge, 40,800 ft³/s (1,160 m³/s) Sept. 5, 1939; minimum, 538 ft³/s (15.2 m³/s) Aug. 3, 1934; minimum daily since regulation of Hoover Dam began, 1,450 ft³/s (41.1 m³/s) Feb. 17, 1935.

REMARKS.--Records show flow of Colorado River reaching Imperial Dam, and are based on combined monthly total flow of Colorado River below Imperial Dam (sta 09429500), All-American Canal near Imperial Dam (sta 09523000), Gila Gravity Main Canal at Imperial Dam (sta 09522500), and diversions to Mittry Lake. Records for 1903-34 and for October 1942 to September 1960 were computed as combined flow of Colorado River at Yuma (sta 09521000) and the canals diverting at Imperial and Laguna Dams, less the flow of Gila River near Dome (sta 09520500); for some of these periods drainage and waste return flows and channel losses between the gaging stations and Imperial Dam were considered, and for other periods they were neglected. Records for July 1934 to September 1942 show daily discharge of Colorado River at gaging station near Picacho, Calif.

Natural flow of Colorado River at this point affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals, and diversions for irrigation, municipal, and industrial uses, and return flows from irrigated areas. Diversions to Mittry Lake, which began June 23, 1970, are included in river records in table below. Additional regulation, beginning Jan. 31, 1966, to equalize supplies for downstream water users, is provided by pumped storage in reservoir on Senator Wash, about 2 mi (3 km) upstream from Imperial Dam. Monthend contents of Senator Wash Reservoir—capacity, 13,840 acre-ft (17.1 hm³)—is given in table below.

COOPERATION.--Records of Sparling meter readings of diversion to Mittry Lake and contents of Senator Wash Reservoir furnished by Bureau of Reclamation.

COLORADO RIVER ABOVE IMPERIAL DAM, DIVERSIONS TO MITTRY LAKE, AND MONTHEND CONTENTS OF SENATOR WASH RESERVOIR,
WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Month	Discharge of Colorado River		Diversions to Mittry Lake (acre-feet)*	Monthend contents, Senator Wash Reservoir (acre-feet)
	Mean (cubic feet per second)	Runoff in acre-feet		
October	7,382	453,900	741	7,690
November	5,236	311,500	615	10,660
December	5,366	330,000	614	5,880
CAL YR 1973	8,110	5,872,000	7,830	-
January	4,121	253,400	592	5,030
February	7,345	407,900	535	7,160
March	9,320	573,100	599	10,460
April	11,950	710,800	578	7,330
May	10,180	625,700	664	2,880
June	10,450	621,800	631	4,460
July	11,810	726,400	669	2,370
August	11,950	734,800	674	5,890
September	9,392	558,900	660	5,600
WTR YR 1974	8,713	6,308,000	7,570	-

* Included in first two columns of table.

NOTE.--Discharge of Colorado River, in first two columns of table above, is combined discharge of Colorado River below Imperial Dam (sta 09429500) and diversions to All-American Canal, Gila Gravity Main Canal, and Mittry Lake.

09429500 COLORADO RIVER BELOW IMPERIAL DAM, ARIZ.-CALIF.

LOCATION.--Forebay gage: Lat 32°52'59", long 114°27'57", in NW¼SW¼ sec.9, T.15 S., R.24 E., San Bernardino meridian, in California, Imperial County, near All-American Canal headworks at west end of Imperial Dam, 5 mi (8 km) upstream from Laguna Dam, 15 mi (24 km) northeast of Yuma, 90 mi (145 km) downstream from Palo Verde Dam, and 147 mi (237 km) downstream from Parker Dam.

DRAINAGE AREA.--184,600 mi² (478,100 km²), approximately.

PERIOD OF RECORD.--October 1960 to current year. Prior to October 1971 published as "at Imperial Dam." Records of flow reaching Imperial Dam, formerly published with this station, are now published separately as sta 09429490, Colorado River above Imperial Dam.

GAGE.--Water-stage recorder in forebay, 12 calibrated gates on California sluiceway, 8 calibrated gates on Gila sluiceway, and calibrated manometer on each discharge pipe from desilting basin. Datum of forebay gage is 162.00 ft (49.378 m) above mean sea level (Bureau of Reclamation bench mark).

EXTREMES.--Current year: Maximum daily discharge, 1,590 ft³/s (45.0 m³/s) Jan. 10; minimum daily, 148 ft³/s (4.19 m³/s) Jan. 16 to Feb. 5.

Period of record: Maximum daily discharge, 5,040 ft³/s (143 m³/s) Mar. 3, 1970; minimum daily, 27 ft³/s (0.76 m³/s) Dec. 15-18, 1969.

REMARKS.--Records good. Records of daily discharge show flow of Colorado River passing Imperial Dam, and include water released to river through California and Gila sluiceways, sludge from desilting basins returned to river, and leakage through dam. Records of flow reaching Imperial Dam, formerly published as supplement to this station, are now published separately (see sta 09429490).

Flow of Colorado River regulated by many reservoirs, principally Lake Mead, since 1935. Many diversions from Colorado River and tributaries above station. diversion to Mittry Lake and monthend contents of Senator Wash Reservoir also are now published with sta 09429490.

COOPERATION.--Records of gate openings furnished by Bureau of Reclamation. Records of sludge return flow from desilting basins furnished by Imperial Irrigation District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	245	244	250	238	148	239	347	607	585	336	336	246
2	245	244	249	238	148	239	347	523	244	525	336	437
3	343	244	249	238	148	239	347	523	400	525	336	834
4	245	244	248	238	148	238	347	775	497	522	910	852
5	245	244	248	238	148	238	347	1,170	329	688	1,050	866
6	245	244	248	238	238	310	347	961	344	737	727	886
7	245	244	248	660	238	527	347	963	344	336	351	868
8	245	244	248	1,210	238	338	347	963	344	336	346	868
9	245	244	248	1,510	238	338	347	999	344	336	346	866
10	367	244	238	1,590	238	815	347	968	344	336	346	866
11	245	244	238	928	238	337	347	968	344	336	346	866
12	245	244	238	945	238	337	347	972	344	336	346	943
13	245	244	238	928	238	352	347	972	344	336	346	840
14	245	244	238	517	238	337	347	970	344	336	346	698
15	345	244	238	210	238	337	347	795	344	524	346	992
16	307	244	238	148	238	337	347	879	344	336	726	936
17	369	244	238	148	238	337	649	1,070	344	336	346	1,080
18	245	244	238	148	238	337	362	1,060	344	619	346	837
19	245	244	238	148	238	337	357	1,070	344	445	346	837
20	245	244	238	148	238	337	357	1,060	344	409	442	833
21	245	244	238	148	238	337	357	1,030	344	336	441	837
22	245	244	238	148	338	337	357	1,020	344	336	346	835
23	245	244	238	148	238	337	357	1,060	344	336	346	833
24	245	244	238	148	238	337	357	1,090	513	336	346	762
25	245	294	238	148	238	620	509	1,080	334	336	346	534
26	245	481	238	148	238	531	618	1,080	334	336	535	533
27	245	429	238	148	529	434	357	1,080	334	336	534	246
28	245	252	238	148	238	337	357	983	334	336	440	246
29	245	251	238	148	-----	626	537	791	334	336	346	246
30	245	251	238	148	-----	337	525	792	334	336	246	246
31	245	-----	238	148	-----	337	-----	793	-----	336	246	-----
TOTAL	8,101	7,814	7,472	12,294	6,605	11,476	11,608	29,067	10,764	12,386	13,192	21,769
MEAN	261	260	241	397	236	370	387	938	359	400	426	726
MAX	369	481	250	1,590	529	815	649	1,170	585	737	1,050	1,080
MIN	245	244	238	148	148	238	347	523	244	336	246	246
AC-FT	16,070	15,500	14,820	24,390	13,100	22,760	23,020	57,650	21,350	24,570	26,170	43,180
CAL YR 1973	TOTAL	119,132	MEAN	326	MAX	1,810	MIN	228	AC-FT	236,300		
WTR YR 1974	TOTAL	152,548	MEAN	418	MAX	1,590	MIN	148	AC-FT	302,600		

LOCATION.--Lat 32°48'44", long 114°30'51", in SE¼NE¼ sec.35, T.15 S., R.23 E., San Bernardino meridian, in California, Imperial County, on right bank 1.4 mi (2.3 km) downstream from Laguna Dam, 2.8 mi (4.5 km) north-east of Bard, Calif., and 10 mi (16 km) northeast of Yuma, Ariz.

PERIOD OF RECORD.--December 1971 to current year.

EXTREMES.--Current year: Maximum discharge, 1,660 ft³/s (47.0 m³/s) Jan. 10 (gage height, 7.04 ft or 2.146 m); minimum daily, 139 ft³/s (3.94 m³/s) Jan. 30.

Period of record: Maximum discharge, 3,650 ft³/s (103 m³/s) Oct. 7, 1972 (gage height, 10.09 ft or 3.075 m); minimum daily, 71 ft³/s (2.01 m³/s) May 29, 1973.

REMARKS.--Records good. Natural flow of Colorado River at this point is affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals, diversions for irrigation, municipal and industrial uses, and return flows from irrigated areas. Flow past station consists mainly of water released through Imperial Dam, sludge from the desilting basins at Imperial Dam, seepage through Imperial Dam, and seepage from the All-American Canal and the Gila Gravity Main Canal.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	255	339	239	447	189	270	478	500	739	320	360	282
2	254	402	239	632	185	337	413	508	310	331	349	589
3	253	377	237	388	183	459	346	504	274	335	350	800
4	244	337	239	301	183	452	345	810	294	336	353	818
5	243	352	249	301	182	427	366	1,190	351	624	617	867
6	263	410	270	290	228	404	374	1,010	436	822	669	919
7	275	365	270	272	270	381	368	999	364	373	438	925
8	277	320	249	573	281	379	558	989	255	343	567	885
9	275	297	237	1,240	284	380	374	977	224	312	551	904
10	267	292	234	1,570	282	380	346	982	282	305	512	887
11	241	289	254	961	280	422	342	972	363	317	439	887
12	246	288	270	823	278	614	335	952	338	332	367	887
13	269	284	272	880	280	739	336	947	334	454	360	887
14	272	280	272	570	282	470	353	937	320	526	355	884
15	268	283	272	253	281	422	349	831	289	454	344	866
16	257	282	272	235	280	407	347	851	355	338	353	898
17	261	283	280	243	284	404	345	1,060	468	333	373	908
18	261	284	280	235	281	402	338	1,070	447	352	377	908
19	260	298	280	225	282	397	338	1,070	425	354	350	890
20	258	305	270	199	278	381	333	1,080	380	366	316	890
21	270	315	252	377	278	391	370	1,100	342	338	327	890
22	274	310	260	499	266	379	494	1,080	353	324	406	887
23	268	302	270	342	228	391	439	1,070	344	669	540	884
24	269	288	275	213	260	391	369	1,100	336	744	519	862
25	270	256	265	206	265	376	334	1,090	325	412	469	795
26	257	252	252	203	271	372	334	1,090	318	373	348	642
27	236	261	252	199	252	411	334	1,090	313	368	333	385
28	234	276	254	201	250	484	438	1,090	311	363	342	324
29	240	244	267	171	-----	477	512	1,010	316	355	315	316
30	250	240	272	139	-----	475	512	878	318	353	282	310
31	263	-----	275	180	-----	484	-----	844	-----	356	282	-----
TOTAL	8,030	9,105	8,079	13,368	7,143	13,158	11,520	29,681	10,524	12,582	12,563	23,076
MEAN	259	304	261	431	255	424	384	957	351	406	405	769
MAX	277	410	280	1,570	284	739	558	1,190	739	822	669	925
MIN	234	240	234	139	182	270	333	500	224	305	282	282
AC-F T	15,930	18,060	16,020	26,520	14,170	26,100	22,850	58,870	20,870	24,960	24,920	45,770
CAL YR 1973	TOTAL 127,045		MEAN 348	MAX 1,810	MIN 71</							

09521100 COLORADO RIVER BELOW YUMA MAIN CANAL WASTEWAY, AT YUMA, ARIZ.

LOCATION.--Lat 32°43'54", long 114°37'55", in SW¼SW¼ sec.26, T.16 S., R.22 E., San Bernardino meridian, in California, Imperial County, on right bank 1,000 ft (305 m) downstream from Yuma Main Canal wasteway, 0.6 mi (1.0 km) downstream from former gaging station on Colorado River at Yuma, 1.1 mi (1.8 km) northwest of post office in Yuma, 5.2 mi (8.4 km) downstream from Gila River, and 6.4 mi (10.3 km) upstream from northerly international boundary.

DRAINAGE AREA.--242,900 mi² (629,100 km²), approximately, including all closed basins entirely within the drainage boundary.

PERIOD OF RECORD.--October 1963 to current year. If records for Yuma Main Canal wasteway at Yuma (sta 09525000) and Reservation Main Drain No. 4 (sta 09530000) are subtracted from records at this station, records equivalent to those published 1902-64 as "Colorado River at Yuma" (sta 09521000) can be obtained.

GAGE.--Water-stage recorder. Datum of gage is 101.99 ft (31.087 m) above mean sea level.

AVERAGE DISCHARGE.--11 years, 845 ft³/s (23.93 m³/s), 612,200 acre-ft/yr (755 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,280 ft³/s (64.6 m³/s) May 5 (gage height, 12.69 ft or 3.868 m); minimum daily, 299 ft³/s (8.47 m³/s) Jan. 30.

Period of record: Maximum discharge, 5,040 ft³/s (143 m³/s) Mar. 3, 1970 (gage height, 15.05 ft or 4.587 m); minimum daily, 260 ft³/s (7.36 m³/s) Jan. 17, 1970.

Maximum gage height since at least 1878, 34.0 ft (10.4 m) Jan. 22, 1916 (discharge, 250,000 ft³/s or 7,080 m³/s), at former gaging station at Yuma.

REMARKS.--Records excellent above 1,000 ft³/s (28.3 m³/s) and good below. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation, municipal and industrial uses, and return flows from irrigated areas.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,100	587	1,290	552	1,100	476	615	684	1,300	563	585	1,130
2	1,120	642	1,240	1,190	1,100	492	606	687	606	571	578	1,230
3	1,130	523	1,380	928	1,100	650	529	672	475	592	583	1,170
4	1,080	673	991	707	922	655	496	769	475	583	613	1,180
5	1,080	508	456	761	952	631	503	1,830	482	652	676	1,180
6	1,090	559	469	798	950	610	519	1,280	589	1,140	1,020	1,160
7	1,080	539	460	814	948	596	523	1,220	571	680	760	1,150
8	1,080	563	460	1,020	935	653	664	1,230	458	604	781	1,170
9	1,060	553	447	1,460	932	596	619	1,240	421	561	814	1,160
10	1,110	563	432	1,750	940	596	539	1,260	383	550	774	1,150
11	1,080	661	437	1,360	1,170	619	519	1,250	493	559	714	1,190
12	1,100	731	450	924	1,190	685	518	1,230	558	570	558	1,210
13	1,090	723	459	1,090	1,270	1,020	523	1,240	569	636	546	1,200
14	1,080	741	469	882	1,310	783	542	1,220	555	769	603	1,170
15	1,090	731	456	784	1,200	611	553	1,160	499	725	594	1,170
16	1,080	729	459	684	499	601	551	911	498	578	604	1,150
17	1,100	721	479	861	499	583	546	1,250	672	561	627	1,160
18	1,070	713	475	1,140	485	576	536	1,240	679	552	633	1,150
19	1,070	740	463	1,130	486	582	534	1,220	640	589	625	1,150
20	1,010	769	468	1,150	491	570	518	1,240	600	592	583	1,150
21	737	1,010	445	1,150	468	556	509	1,230	577	582	594	1,130
22	536	976	448	1,080	484	547	659	1,230	560	554	606	1,130
23	558	968	460	1,110	436	556	647	1,250	564	700	782	1,130
24	615	929	483	1,110	468	570	568	1,310	544	1,060	793	1,130
25	592	943	497	1,090	472	556	539	1,270	541	738	735	1,120
26	580	939	449	1,130	480	534	526	1,310	548	611	645	1,110
27	571	963	434	1,140	480	542	538	1,290	560	593	583	1,180
28	584	978	434	1,180	464	630	590	1,320	547	578	596	1,160
29	607	980	452	387	-----	620	725	1,330	552	564	565	1,200
30	638	1,010	447	299	-----	610	730	1,380	553	562	610	1,100
31	654	-----	455	409	-----	620	-----	1,340	-----	570	1,750	-----
TOTAL	28,372	22,725	17,244	30,070	22,231	18,926	16,984	37,093	17,069	19,739	21,530	34,770
MEAN	915	758	556	970	794	611	566	1,197	569	637	695	1,159
MAX	1,130	1,010	1,380	1,750	1,310	1,020	730	1,830	1,300	1,140	1,750	1,230
MIN	536	508	432	299	436	476	496	672	383	550	546	1,100
AC-FT	56,280	45,080	34,200	59,640	44,100	37,540	33,690	73,570	33,860	39,150	42,700	68,970
CAL YR 1973	TOTAL 320,340		MEAN 878		MAX 1,900		MIN 432		AC-FT 635,400			
WTR YR 1974	TOTAL 286,753		MEAN 786		MAX 1,830		MIN 299		AC-FT 568,800			

09522000 COLORADO RIVER AT NORTHERLY INTERNATIONAL BOUNDARY ABOVE MORELOS DAM, NEAR ANDRADE, CALIF.

LOCATION.--Lat 32°43'07", long 114°43'05", in NE&SE¼ sec.21, T.8 S., R.24 W., Gila and Salt River meridian, in Arizona, Yuma County, on left bank at northerly international boundary, 0.5 mi (0.8 km) east of Andrade, 1.1 mi (1.8 km) upstream from Morelos Dam, 1.1 mi (1.8 km) downstream from Rockwood Gate, and 6.4 mi (10.3 km) downstream from gaging station on Colorado River below Yuma Main Canal wasteway.

DRAINAGE AREA.--243,000 mi² (629,400 km²), approximately, including all closed basins entirely within the drainage boundary.

PERIOD OF RECORD.--January 1950 to current year. Prior to October 1958 published as "at international boundary."

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Supplementary water-stage recorder 1,680 ft (510 m) upstream at same datum.

EXTREMES.--Current year: Maximum discharge, 3,590 ft³/s (102 m³/s) Apr. 9; maximum elevation, 104.90 ft (31.974 m) Apr. 9; minimum discharge, 645 ft³/s (18.3 m³/s) Nov. 5; minimum elevation, 102.07 ft (31.111 m) Nov. 5.

Period of record: Maximum discharge, 25,390 ft³/s (719 m³/s) Jan. 1, 1953; maximum elevation, 114.24 ft (34.820 m) Jan. 28, 1958; minimum discharge, 495 ft³/s (14.0 m³/s) Sept. 28, 1970; minimum elevation, 101.82 ft (31.035 m) Sept. 18, 1971.

REMARKS.--This record shows water passing northerly international boundary. Minor diversions to the United States below this station by pumping from ground water for irrigation in the floodway between river and Yuma levee.

COOPERATION.--Records furnished by International Boundary and Water Commission, U.S. Section (monthly summary figures rounded in accordance with Geological Survey standard practice).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,280	740	1,410	1,820	1,280	1,920	3,270	1,930	1,350	2,840	3,040	1,360
2	1,290	709	1,390	1,400	1,250	2,190	3,320	1,910	1,790	2,840	3,280	1,350
3	1,290	755	1,540	1,190	1,240	2,470	3,360	1,830	1,830	2,840	3,300	1,320
4	1,280	836	1,590	920	1,100	2,200	3,330	1,830	1,880	2,860	3,260	1,340
5	1,260	655	1,600	931	1,100	2,260	3,350	1,660	1,910	2,840	3,300	1,310
6	1,280	715	1,610	1,000	1,120	2,220	3,350	1,440	1,890	2,830	3,320	1,350
7	1,280	705	1,610	1,000	1,100	2,250	3,350	1,300	1,900	2,830	3,320	1,340
8	1,280	720	1,610	1,110	1,100	2,350	3,300	1,290	1,780	3,100	3,320	1,340
9	1,270	655	1,600	1,510	1,100	2,270	3,310	1,300	1,710	3,110	3,310	1,320
10	1,280	705	1,770	1,790	1,090	2,300	3,350	1,330	1,670	3,100	3,300	1,300
11	1,280	785	1,790	1,590	1,310	2,580	3,360	1,320	1,910	3,080	3,320	1,350
12	1,290	874	1,830	1,070	1,330	2,570	3,360	1,290	1,870	3,110	3,010	1,380
13	1,280	852	1,870	1,210	1,390	2,730	3,350	1,300	1,910	3,120	2,860	1,390
14	1,290	885	1,870	1,620	1,470	2,720	3,360	1,300	1,800	3,100	2,810	1,350
15	1,290	863	1,860	890	1,440	2,720	3,370	1,280	1,730	3,100	2,820	1,340
16	1,290	852	1,860	845	1,750	2,720	3,370	1,060	1,730	3,120	2,820	1,340
17	1,290	841	1,990	958	1,770	2,980	3,100	1,290	1,890	3,110	2,800	1,350
18	1,280	852	1,970	1,220	1,770	3,030	2,820	1,330	1,900	3,120	2,800	1,350
19	1,280	852	1,940	1,230	1,750	3,030	2,620	1,320	1,920	3,120	2,800	1,340
20	1,270	856	1,740	1,250	1,750	3,060	2,610	1,300	1,920	2,930	2,820	1,340
21	993	1,120	1,920	1,280	1,920	3,030	2,580	1,330	2,130	2,930	2,830	1,320
22	715	1,130	1,960	1,220	1,860	3,210	2,450	1,320	2,130	2,930	2,830	1,310
23	690	1,120	1,950	1,240	1,640	3,230	2,450	1,290	2,160	2,940	2,840	1,320
24	730	1,090	2,080	1,250	1,660	3,220	2,450	1,350	2,270	2,930	2,860	1,310
25	726	1,090	2,060	1,250	1,680	3,320	2,420	1,330	2,570	2,870	2,780	1,310
26	700	1,090	2,060	1,280	1,690	3,300	2,360	1,340	2,720	2,780	2,770	1,300
27	690	1,120	2,040	1,290	1,690	3,320	2,360	1,340	3,040	2,820	2,750	1,320
28	700	1,130	2,060	1,410	1,650	3,290	2,360	1,340	3,040	2,850	2,520	1,360
29	720	1,130	2,080	1,590	-----	3,270	2,330	1,360	3,050	2,870	2,260	1,350
30	762	1,150	2,080	1,490	-----	3,290	2,370	1,390	3,030	2,870	1,980	1,310
31	770	-----	2,090	1,530	-----	3,270	-----	1,410	-----	2,850	1,670	-----
TOTAL	33,826	27,957	56,830	38,784	41,000	86,320	88,740	43,410	62,430	91,740	89,700	40,070
MEAN	1,091	902	1,833	1,251	1,464	2,785	2,958	1,400	2,081	2,959	2,894	1,336
MAX	1,290	1,150	2,090	1,820	1,920	3,320	3,370	1,930	3,050	3,120	3,320	1,390
MIN	690	655	1,390	845	1,090	1,920	2,330	1,060	1,350	2,780	1,670	1,300
AC-FT	67,090	53,670	112,700	76,930	81,320	171,200	176,000	86,100	123,800	182,000	177,900	79,480

CAL YR 1973 TOTAL 645,870 MEAN 1,770 MAX 3,130 MIN 655 AC-FT 1,281,000
 WTR YR 1974 TOTAL 695,907 MEAN 1,918 MAX 3,370 MIN 655 AC-FT 1,388,000

09522500 GILA GRAVITY MAIN CANAL AT IMPERIAL DAM, ARIZ.-CALIF.

LOCATION.--Lat 32°52'34", long 114°27'18", in SE¼SW¼ sec.30, T.6 S., R.21 W., Gila and Salt River meridian, Yuma County, on right bank 3,200 ft (975 m) downstream from intake at east end of Imperial Dam.

PERIOD OF RECORD.--August 1943 to current year.

GAGE.--Water-stage recorder. Datum of gage is 160.00 ft (48.768 m) above mean sea level.

AVERAGE DISCHARGE.--15 years (1959-74), 1,211 ft³/s (34.30 m³/s), 877,400 acre-ft/yr (1,080 hm³/yr).

EXTREMES.--Period of record: Maximum daily discharge, 2,240 ft³/s (63.4 m³/s) May 25, 1965; no flow at canal intake at times in several years when intake gates were closed.

REMARKS.--Records excellent except those below 100 ft³/s (2.8 m³/s), which are fair. Gila Gravity Main Canal diverts water from Colorado River at left end of Imperial Dam for irrigation of lands in the Gila Project area in Arizona. Diversions to this canal began Aug. 17, 1943. Diversions to North Gila Valley from this canal began Aug. 17, 1943. Diversions to North Gila Valley from this canal began Dec. 16, 1954. During the 1973 calendar year, water was used for irrigation of 101,775 acres (412 km²) divided as follows: North and South Gila Valleys, 16,234 acres (65.7 km²); Yuma Mesa Division, 18,372 acres (74.4 km²); Wellton-Mohawk Division, 63,973 acres (259 km²); Yuma Mesa Auxiliary Division, 3,196 acres (12.9 km²). Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,180	1,120	262	449	752	1,100	1,430	1,700	1,660	1,980	2,170	1,300
2	1,450	877	84	908	707	867	1,480	1,760	1,460	2,050	2,130	1,800
3	1,400	745	98	1,130	476	711	1,640	1,590	1,600	2,110	2,030	1,980
4	1,440	566	169	797	1,170	1,050	1,600	1,130	1,540	1,910	1,690	2,040
5	1,250	865	202	430	966	1,250	1,600	883	1,760	1,750	1,970	2,030
6	873	1,070	516	221	1,050	1,360	1,450	1,750	1,700	1,750	2,100	1,840
7	818	1,120	736	472	1,070	1,170	1,500	1,920	1,590	1,300	2,040	2,010
8	1,090	619	560	348	1,080	811	1,720	1,870	1,280	1,780	2,060	1,660
9	1,170	1,020	524	183	893	682	1,710	2,050	1,400	1,890	2,040	1,930
10	1,140	700	843	89	586	431	1,750	1,850	1,630	2,110	2,050	2,090
11	1,180	419	1,050	89	1,060	1,180	1,560	1,490	1,850	2,100	1,760	2,040
12	1,000	1,000	979	103	1,040	1,380	1,330	928	2,000	2,090	2,040	2,060
13	877	1,080	865	108	1,170	1,260	925	1,880	1,930	1,960	2,040	2,030
14	566	1,220	748	328	1,010	1,250	639	1,990	1,870	1,820	2,050	1,530
15	886	1,070	327	270	964	1,090	1,410	2,020	1,760	2,080	2,050	938
16	1,080	1,220	309	301	867	945	1,610	1,890	1,550	2,060	2,040	1,610
17	1,160	888	736	319	539	797	1,790	1,830	2,000	2,050	1,840	1,470
18	1,170	920	969	191	903	1,070	1,740	1,280	2,050	1,930	1,640	1,620
19	1,040	1,330	989	324	974	1,300	1,710	1,490	2,040	1,840	1,980	1,770
20	825	1,540	881	345	1,130	1,260	1,510	1,610	2,070	1,290	2,030	1,440
21	325	1,080	877	588	1,080	1,280	1,460	1,760	1,920	1,080	2,030	1,130
22	1,160	365	506	780	1,170	1,150	1,920	1,920	1,680	1,440	2,100	936
23	954	312	252	836	1,060	1,070	1,950	1,800	1,470	1,510	2,070	1,270
24	1,320	20	53	646	712	872	2,000	1,690	1,820	1,600	1,960	983
25	959	8.4	21	560	1,240	1,170	1,960	1,400	2,100	1,800	1,640	1,850
26	830	3.8	888	556	1,410	1,340	1,780	1,110	2,120	1,760	1,800	1,580
27	697	2.6	728	408	1,390	1,390	1,530	1,980	2,140	1,710	2,060	1,590
28	363	1.9	828	1,020	1,280	1,210	1,220	1,750	2,110	1,630	2,070	1,260
29	1,090	1.4	649	1,210	-----	1,120	1,680	2,010	1,920	1,910	2,080	1,080
30	1,080	97	514	1,160	-----	968	1,730	1,920	1,920	2,080	2,080	1,110
31	976	-----	372	1,120	-----	882	-----	1,920	-----	2,180	1,570	-----
TOTAL	31,349	21,281.1	17,535	16,289	27,749	33,416	47,334	52,171	53,940	56,550	61,210	47,977
MEAN	1,011	709	566	525	991	1,078	1,578	1,683	1,798	1,824	1,975	1,599
MAX	1,450	1,540	1,050	1,210	1,410	1,390	2,000	2,050	2,140	2,180	2,170	2,090
MIN	325	1.4	21	89	476	431	639	883	1,280	1,080	1,570	936
AC-FT	62,180	42,210	34,780	32,310	55,040	66,280	93,890	103,500	107,000	112,200	121,400	95,160
CAL YR 1973	TOTAL 446,167.1		MEAN 1,222		MAX 2,200		MIN 1.4		AC-FT 885,000			
WTR YR 1974	TOTAL 466,801.1		MEAN 1,279		MAX 2,180		MIN 1.4		AC-FT 925,900			

DIVERSIONS AND RETURN FLOWS AT AND BELOW IMPERIAL DAM

09523000 ALL-AMERICAN CANAL NEAR IMPERIAL DAM, ARIZ.-CALIF.

LOCATION.--Lat 32°52'17", long 114°28'47", in SE¼NW¼ sec.17, T.15 S., R.24 E., San Bernardino meridian, in California, Imperial County, on left bank 6,000 ft (1,829 m) downstream from intake at west end of Imperial Dam, and 13.7 mi (22.0 km) upstream from turnout to Yuma Main Canal.

PERIOD OF RECORD.--October 1938 to current year. Prior to October 1939 monthly discharge only, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 150.00 ft (45.720 m) above mean sea level (subject to undetermined changes caused by earthquake of May 18, 1940). Since Aug. 21, 1952, auxiliary water-stage recorder 18.5 mi (29.8 km) downstream from base gage.

AVERAGE DISCHARGE.--33 years (1941-74), 6,956 ft³/s (197.0 m³/s), 5,040,000 acre-ft/yr (6,210 hm³/yr).

EXTREMES.--Period of record: Maximum daily discharge, 13,500 ft³/s (382 m³/s) Apr. 16, 1938; no flow at times.

REMARKS.--Records excellent. All-American Canal diverts water from Colorado River at Imperial Dam. Water is used for power development and for irrigation in Yuma, Coachella, and Imperial Valleys. Water can be released back to the river through Pilot Knob powerplant and wasteway for power, regulatory purposes, or for downstream use in Mexico. First diversion to All-American Canal began October 1938, but prior to October 1940 was used only for priming canal.

COOPERATION.--Gage-height record furnished by Imperial Irrigation District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7,190	5,340	4,330	4,330	6,010	6,810	9,140	9,360	7,290	9,430	10,400	7,070
2	7,220	5,060	4,120	4,640	6,450	6,900	9,460	9,470	7,700	9,580	10,300	7,070
3	7,400	4,470	3,880	5,210	5,900	6,510	9,710	9,140	7,920	9,590	10,100	7,100
4	7,450	3,520	4,360	5,090	6,000	6,560	9,860	8,980	8,030	9,860	9,770	7,010
5	7,340	3,820	4,830	4,670	6,170	6,720	9,970	8,180	8,430	9,540	9,790	6,830
6	6,690	4,080	5,150	3,140	6,300	7,340	9,920	7,560	7,870	9,320	9,800	6,740
7	6,550	4,640	5,320	2,810	6,500	7,650	9,910	7,700	7,830	9,630	10,100	6,600
8	6,530	5,080	4,880	1,580	6,350	7,800	10,100	7,790	7,780	10,100	10,300	6,710
9	6,460	4,980	3,610	1,500	5,760	6,840	10,400	7,620	7,770	10,300	10,400	7,070
10	6,620	4,670	3,810	1,420	5,040	5,670	10,500	7,470	7,900	10,300	10,300	7,070
11	6,750	4,150	4,190	1,420	5,280	6,820	10,500	7,110	7,950	10,300	10,200	7,280
12	6,560	4,220	4,320	1,500	5,510	6,550	10,500	6,830	8,080	10,300	10,300	7,340
13	6,210	4,370	4,840	1,290	5,460	6,560	10,200	7,110	7,980	10,200	10,400	7,050
14	6,060	4,580	4,850	1,380	5,560	7,300	10,100	7,320	7,840	9,780	10,300	7,100
15	5,990	4,490	4,610	1,820	5,580	7,040	10,100	7,550	7,640	9,850	10,200	7,150
16	6,100	4,210	4,590	1,980	5,930	7,030	10,300	7,500	7,190	10,100	9,920	7,310
17	6,220	4,300	4,990	2,190	5,950	7,110	10,100	7,380	7,610	10,400	9,830	7,310
18	6,080	4,000	4,890	2,400	5,760	7,820	10,100	7,200	7,660	10,300	9,080	7,620
19	6,000	4,190	5,210	2,360	6,170	8,470	10,000	6,570	7,990	9,950	8,940	7,440
20	5,850	4,200	5,270	2,360	6,450	8,970	10,200	6,580	8,310	9,480	9,210	7,240
21	5,370	4,460	5,110	2,620	6,800	9,620	10,200	6,840	8,510	9,190	8,900	7,240
22	5,220	4,560	4,900	2,640	6,710	9,670	9,960	7,180	8,650	8,580	9,300	7,200
23	5,430	4,030	4,090	3,180	6,390	9,220	10,000	7,250	8,180	9,050	9,150	7,290
24	5,460	3,840	3,350	3,360	5,870	8,630	10,000	7,020	8,640	8,610	9,030	7,300
25	5,120	3,350	2,990	3,490	6,510	9,170	9,950	6,770	9,160	8,290	8,550	7,290
26	5,190	3,750	4,010	3,940	6,580	9,470	9,850	6,630	9,480	8,440	8,740	7,150
27	5,220	3,540	4,890	4,110	6,810	9,660	9,670	6,900	9,930	8,660	8,970	6,900
28	4,980	3,850	5,150	4,690	7,230	9,500	9,520	7,470	9,980	8,670	8,920	6,730
29	5,090	3,910	4,910	5,600	-----	8,960	9,430	7,760	9,790	9,280	8,560	6,290
30	5,290	4,000	4,810	6,020	-----	8,850	9,480	8,010	9,390	9,760	8,400	6,190
31	5,370	-----	4,780	6,120	-----	8,500	-----	7,650	-----	10,100	7,570	-----
TOTAL	189,010	127,660	141,040	98,860	171,030	243,720	299,130	233,900	248,480	296,940	295,730	211,690
MEAN	6,097	4,255	4,550	3,189	6,108	7,862	9,971	7,545	8,283	9,579	9,540	7,056
MAX	7,450	5,340	5,320	6,120	7,230	9,670	10,500	9,470	9,980	10,400	10,400	7,620
MIN	4,980	3,350	2,990	1,290	5,040	5,670	9,140	6,570	7,190	8,290	7,570	6,190
AC-FT	374,900	253,200	279,800	196,100	339,200	483,400	593,300	463,900	492,900	589,000	586,600	419,900
CAL YR 1973	TOTAL 2,390,930		MEAN 6,550		MAX 9,680		MIN 2,990		AC-FT 4,742,000			
WTR YR 1974	TOTAL 2,557,190		MEAN 7,006		MAX 10,500		MIN 1,290		AC-FT 5,072,000			

09527000 PILOT KNOB POWERPLANT AND WASTEWAY NEAR PILOT KNOB, CALIF.

LOCATION.--Lat 32°44'15", long 114°42'56", in NW¼SW¼ sec.25, T.16 S., R.21 E., San Bernardino meridian, Imperial County, 2 mi (3 km) east of summit of Pilot Knob, 6 mi (10 km) west of Yuma, Ariz., and 20.8 mi (33.5 km) downstream from intake of All-American Canal at Imperial Dam.

PERIOD OF RECORD.--February 1939 to current year. Prior to October 1943 monthly discharge only, published in WSP 1313. Prior to October 1956, published as Pilot Knob wasteway near Pilot Knob.

GAGE.--Totalizing flowmeter on each turbine. In addition, water-stage recorder in forebay on right bank of All-American Canal (also used as forebay gage for sta 09527500); tailrace gage with remote recorder logged hourly in control house; calibrated wicket gates for turbine flow and calibrated bypass gates for wasteway flow which are logged for each change. Datum of forebay nonrecording gage is 150.00 ft (45.720 m); that of tailrace nonrecording gage is 0.00 ft (0.000 m); elevation of sill of bypass gates is 147.88 ft (45.074 m) above mean sea level.

EXTREMES.--Period of record: Maximum daily discharge, 8,350 ft³/s (236 m³/s) Jan. 26, 1958; no flow for long periods.

REMARKS.--Records excellent. Daily discharge computed from flowmeter equipment or from head and gate openings on wicket gates. Records show water released through Pilot Knob powerplant and wasteway from All-American Canal and returned to Colorado River through Rockwood gates. Pilot Knob wasteway completed in summer of 1938 and first flow occurred Feb. 5, 1939. Pilot Knob powerplant was completed in January 1957 and first flow occurred Jan. 14, 1957. See table below for monthly return flow by Pilot Knob wasteway only.

COOPERATION.--Midnight readings of flowmeter, recorder graph of forebay, and record of tailrace elevations and gate openings furnished by Imperial Irrigation District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	1,010	0	1,250	2,460	1,160	0	2,070	2,260	
2			0	0	0	1,530	2,500	1,140	1,010	2,080	2,460	
3			0	0	0	1,650	2,600	1,090	1,270	2,060	2,460	
4			363	0	0	1,370	2,590	1,060	1,310	2,050	2,410	
5			960	0	0	1,450	2,610	0	1,350	1,990	2,480	
6			968	0	0	1,430	2,610	0	1,190	1,610	2,210	
7			968	0	0	1,470	2,570	0	1,120	1,870	2,350	
8			966	0	0	1,540	2,440	0	1,150	2,250	2,340	
9			974	0	0	1,510	2,450	0	1,140	2,260	2,300	
10			1,160	0	0	1,560	2,530	0	1,100	2,250	2,320	
11			1,180	0	0	1,800	2,590	0	1,150	2,260	2,370	
12			1,190	0	0	1,770	2,610	0	1,160	2,380	2,240	
13			1,220	0	0	1,560	2,640	0	1,200	2,320	2,140	
14			1,180	0	0	1,720	2,640	0	1,090	2,140	2,040	
15			1,190	0	0	1,890	2,590	0	1,070	2,190	2,060	
16			1,190	0	1,010	1,950	2,630	0	1,080	2,320	2,050	
17			1,330	0	1,050	2,170	2,400	0	1,080	2,360	2,020	
18			1,280	0	1,050	2,240	2,180	0	1,010	2,380	2,000	
19			1,240	0	1,020	2,260	1,990	0	1,100	2,340	2,020	
20			1,060	0	1,040	2,310	2,000	0	1,150	2,180	2,080	
21			1,250	0	1,250	2,260	2,000	0	1,400	2,170	2,090	
22			1,270	0	1,160	2,450	1,690	0	1,420	2,200	2,080	
23			1,260	0	998	2,460	1,680	0	1,420	2,110	1,950	
24			1,370	0	998	2,440	1,750	0	1,570	1,760	1,870	
25			1,320	0	1,000	2,540	1,750	0	1,870	1,900	1,870	
26			1,370	0	999	2,580	1,740	0	1,960	1,990	1,930	
27			1,380	0	998	2,600	1,720	0	2,230	2,060	1,990	
28			1,420	0	1,000	2,470	1,680	0	2,240	2,090	1,750	
29			1,380	995	-----	2,480	1,520	0	2,240	2,140	1,450	
30			1,400	1,000	-----	2,520	1,550	0	2,220	2,130	1,250	
31		-----	1,370	1,000	-----	2,460	-----	0	-----	2,100	0	-----
TOTAL	0	0	33,209	4,005	13,573	61,690	66,710	4,450	40,300	66,010	62,840	0
MEAN	0	0	1,071	129	485	1,990	2,224	144	1,343	2,129	2,027	0
MAX	0	0	1,420	1,010	1,250	2,600	2,640	1,160	2,240	2,380	2,480	0
MIN	0	0	0	0	0	1,250	1,520	0	0	1,610	0	0
AC-FT	0	0	65,870	7,940	26,920	122,400	132,300	8,830	79,940	130,900	124,600	0
(a)	0	0	0	0	0	0	0	0	0	0	0	0
CAL YR 1973	TOTAL	271,090.00	MEAN	743	MAX	2,350	MIN	0	AC-FT	537,700	a	2,240
WTR YR 1974	TOTAL	352,787.00	MEAN	967	MAX	2,640	MIN	0	AC-FT	699,800	a	0

a Return flow, in acre-feet, by Pilot Knob wasteway (included in daily discharge table).

DIVERSIONS AND RETURN FLOWS AT AND BELOW IMPERIAL DAM

09527500 ALL-AMERICAN CANAL BELOW PILOT KNOB WASTEWAY, CALIF.

LOCATION.--Lat 32°44'07", long 114°43'23", in NW¼SE¼ sec.26, T.16 S., R.21 E., San Bernardino meridian, Imperial County, on left bank 0.4 mi (0.6 km) downstream from Pilot Knob wasteway, 6 mi (10 km) west of Yuma, Ariz., 15 mi (24 km) upstream from turnout to Coachella Canal, and 21.2 mi (34.1 km) downstream from intake at Imperial Dam.

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 150.00 ft (45.720 m) above mean sea level. Auxiliary water-stage recorder on right bank 0.4 mi (0.6 km) upstream used to determine head on Pilot Knob check gates (also used as forebay gage for sta 09527000, Pilot Knob powerplant and wasteway). Datum of auxiliary gage is 150.00 ft (45.720 m) above mean sea level.

AVERAGE DISCHARGE.--13 years, 4,709 ft³/s (133.4 m³/s), 3,412,000 acre-ft/yr (4,210 hm³/yr).

EXTREMES.--Period of record: Maximum daily discharge, 7,290 ft³/s (206 m³/s) Apr. 23, 1974; no flow Jan. 4, 1967.

REMARKS.--Records excellent. Water is used for power development at three sites below station and for irrigation in Coachella and Imperial Valleys.

COOPERATION.--Gage-height record and log of gate operation furnished by Imperial Irrigation District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,710	4,300	3,250	2,880	4,620	4,880	6,070	7,190	6,190	6,700	6,890	5,980
2	5,660	4,150	3,140	3,700	5,100	4,670	6,240	7,220	6,170	6,750	6,650	5,950
3	5,780	3,790	2,790	4,300	4,740	4,490	6,440	7,060	6,170	6,680	6,600	6,120
4	5,900	3,290	3,220	4,410	4,950	4,760	6,280	7,020	6,140	6,790	6,640	6,090
5	5,870	3,510	3,440	4,020	5,070	4,790	6,390	7,030	6,300	6,610	6,680	5,920
6	5,350	3,730	3,710	2,670	5,140	5,300	6,480	6,810	6,000	6,790	6,840	5,900
7	5,240	4,080	3,860	2,090	5,320	5,340	6,560	6,760	5,750	6,840	6,880	5,870
8	5,060	4,200	3,470	810	5,230	5,320	6,720	6,720	5,710	6,780	6,770	5,970
9	4,990	4,160	2,290	815	4,720	4,790	6,770	6,630	5,750	6,990	6,880	6,190
10	5,040	4,020	2,180	895	4,120	3,790	6,840	6,540	5,860	7,010	6,870	6,150
11	5,210	3,570	2,450	1,100	4,090	4,560	6,860	6,340	5,830	6,940	6,800	6,230
12	5,120	3,580	2,560	1,190	4,210	4,290	6,880	6,210	5,880	6,830	6,860	6,310
13	4,880	3,580	3,160	1,060	4,060	4,440	6,870	6,230	5,760	6,800	6,960	6,150
14	4,720	3,770	3,240	1,000	4,200	4,920	7,020	6,280	5,750	6,780	6,970	6,290
15	4,480	3,710	3,090	1,040	4,320	4,630	6,990	6,450	5,660	6,800	6,880	6,390
16	4,510	3,440	3,120	1,170	4,290	4,680	7,050	6,490	5,620	6,810	6,730	6,460
17	4,620	3,560	3,350	1,140	4,200	4,730	7,020	6,390	5,880	7,010	6,790	6,380
18	4,550	3,340	3,280	1,220	4,170	5,180	6,930	6,350	5,910	6,840	6,480	6,610
19	4,570	3,420	3,520	1,230	4,300	5,680	6,990	5,940	6,140	6,650	6,330	6,470
20	4,540	3,420	3,640	1,200	4,530	5,960	7,140	5,930	6,330	6,550	6,390	6,310
21	4,440	3,480	3,350	1,470	4,690	6,360	7,210	6,010	6,180	6,270	6,110	6,350
22	4,390	3,660	3,120	1,690	4,720	6,310	7,280	6,230	6,310	5,690	6,230	6,380
23	4,420	3,360	2,420	2,040	4,700	5,990	7,290	6,250	6,100	6,000	6,200	6,380
24	4,470	3,220	1,740	2,180	4,360	5,710	7,250	6,190	6,250	5,980	6,290	6,340
25	4,230	2,720	1,420	2,310	4,840	6,020	7,210	6,080	6,360	5,560	6,060	6,350
26	4,330	2,940	2,330	2,630	4,770	6,180	7,160	5,940	6,490	5,500	6,050	6,110
27	4,410	2,730	3,000	2,930	4,930	6,290	7,130	6,090	6,600	5,700	6,080	5,710
28	4,230	3,000	3,240	3,410	5,360	6,220	7,090	6,360	6,640	5,730	6,230	5,570
29	4,260	3,070	3,090	3,960	-----	5,900	7,100	6,550	6,570	6,160	6,080	5,170
30	4,240	3,100	3,070	4,330	-----	5,620	7,050	6,610	6,430	6,470	6,120	5,070
31	4,240	-----	3,120	4,370	-----	5,660	-----	6,340	-----	6,710	5,930	-----
TOTAL	149,460	105,900	92,660	69,260	129,750	163,460	206,310	200,240	182,730	201,720	202,270	183,170
MEAN	4,821	3,530	2,989	2,234	4,634	5,273	6,877	6,454	6,091	6,507	6,525	6,106
MAX	5,900	4,300	3,860	4,410	5,360	6,360	7,290	7,220	6,640	7,010	6,970	6,610
MIN	4,230	2,720	1,420	810	4,060	3,790	6,070	5,930	5,620	5,500	5,930	5,070
AC-FT	296,500	210,100	183,800	137,400	257,400	324,200	409,200	397,200	362,400	400,100	401,200	363,300

CAL YR 1973 TOTAL 1,774,180 MEAN 4,861 MAX 6,770 MIN 1,420 AC-FT 3,519,000

WTR YR 1974 TOTAL 1,886,930 MEAN 5,170 MAX 7,290 MIN 810 AC-FT 3,743,000

Return surface flows below Imperial Dam, Ariz.-Calif.

Between Imperial Dam and the international boundary return surface flows from irrigated areas enter the Colorado River through many drains and wasteways in Arizona and California. Other return flows enter the Gila River below the gaging station near Dome (09520500). In addition, return flows collected by the Main Drain and East Main Canal are delivered across the international boundary for use in Mexico.

Diversions for irrigation in the Gila Project in Arizona are made at Imperial Dam by the Gila Gravity Main Canal. (See sta 09522500.) Diversions for the Yuma Project in Arizona and California are made at Imperial Dam by the All-American Canal (see sta 09523000)

See figure 2 for a schematic diagram showing location of diversions and return flows.

09527000. PILOT KNOB POWERPLANT AND WASTEWAY.--See daily table elsewhere in this report.

09528600. LAGUNA CANAL WASTEWAY.

LOCATION.--Water-stage recorder and sharp-crested weir, in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.14, T.7 S., R.22 W., 1,000 ft (300 m) downstream from Laguna Dam and 0.7 mi (1.1 km) upstream from outlet to Colorado River.

PERIOD OF RECORD.--Monthly discharge October 1960 to current year.

REMARKS.--Record shows waste water from North Gila Valley Irrigation District returned to Colorado River. Flow record computed from standard weir rating.

09528800. LEVEE CANAL WASTEWAY.

LOCATION.--Water-stage recorder and sharp-crested weir, in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.4, T.8 S., R.22 W., 1,000 ft (300 m) upstream from outlet to Colorado River.

PERIOD OF RECORD.--Monthly discharge October 1960 to current year.

REMARKS.--Record shows waste water from North Gila Valley Irrigation District returned to Colorado River.

09529000. NORTH GILA DRAIN NO. 1.

LOCATION.--Enters Colorado River in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.9, T.8 S., R.22 W., 5.6 mi (9.0 km) downstream from Laguna Dam.

PERIOD OF RECORD.--Monthly discharge October 1960 to current year.

REMARKS.--Record shows waste water from North Gila Valley Irrigation District returned to Colorado River. There is no gage, but, due to fairly constant drainage, flow record is computed by interpolation between discharge measurements made monthly.

09529050. NORTH GILA DRAIN NO. 3.

LOCATION.--Drain enters wasteway to Gila River in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.18, T.8 S., R.21 W., 1,000 ft (300 m) upstream from Gila River.

PERIOD OF RECORD.--Monthly discharge April 1962 to current year.

REMARKS.--Record shows seepage from Gila Gravity Main Canal. There is no gage; records are computed by interpolation between discharge measurements made monthly.

09529100. FORTUNA WASTEWAY.

LOCATION.--Water-stage recorder and sharp-crested weir, in NE $\frac{1}{4}$ sec.30, T.8 S., R.21 W., 1.3 mi (2.1 km) upstream from Gila River.

PERIOD OF RECORD.--Monthly discharge October 1960 to September 1963, October 1964 to current year.

REMARKS.--Record shows waste water spilled from Gila Gravity Main Canal; flow rarely reaches Gila River.

09529150. NORTH GILA MAIN CANAL WASTEWAY.

LOCATION.--Water-stage recorder in NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.22, T.8 S., R.22 W., 1,000 ft (300 m) upstream from outlet to Gila River. Prior to July 1966 water-stage recorder and sharp-crested weir, 1 mi (1.6 km) upstream from outlet to Gila River.

PERIOD OF RECORD.--Monthly discharge October 1960 to current year.

REMARKS.--Record shows waste water from North Gila Valley Irrigation District. Prior to July 1966 record shows waste water less flow diverted for irrigation between gage and Gila River.

09529160. SOUTH GILA PUMP OUTLET CHANNEL NO. 3.

LOCATION.--Water-stage recorder in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.22, T.8 S., R.22 W., 0.5 mi (0.8 km) upstream from outlet to Gila River. Prior to Aug. 1, 1965, record obtained by Badger total-flow meter about 500 ft (150 m) downstream.

PERIOD OF RECORD.--Monthly discharge January 1965 to current year.

REMARKS.--Record shows water pumped from wells in South Gila Valley Unit.

09529200. BRUCE CHURCH DRAIN.

LOCATION.--Pump in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.21, T.8 S., R.22 W., 0.2 mi (0.3 km) upstream from outlet to Gila River.

PERIOD OF RECORD.--Monthly discharge April 1962 to current year.

REMARKS.--Record shows seepage water from parts of secs.15, 16, and 21 (Bruce Church Ranch). Flow computed by interpolation between discharge measurements; prior to Nov. 30, 1970, flow determined from pump rating.

DIVERSIONS AND RETURN FLOWS AT AND BELOW IMPERIAL DAM

Return surface flows below Imperial Dam, Ariz.--Continued

09529240. SOUTH GILA PUMP OUTLET CHANNEL NO. 2.

LOCATION.--Water-stage recorder in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.28, T.8 S., R.22 W., 0.6 mi (1.0 km) upstream from outlet to Gila River; prior to Oct. 18, 1965, outlet was to Wellton-Mohawk Main Outlet Drain. Prior to Aug. 1, 1965, Sparling meter at outlet to Wellton-Mohawk Main Outlet Drain.

PERIOD OF RECORD.--Monthly discharge January 1962 to current year.

REMARKS.--Record shows water pumped from wells in South Gila Valley Unit and conveyed by concrete channel to the Gila River.

09529250. BRUCE CHURCH WASTEWAY.

LOCATION.--Water-stage recorder and sharp-crested weir, in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.20, T.8 S., R.22 W., 500 ft (150 m) upstream from outlet to Gila River.

PERIOD OF RECORD.--Monthly discharge October 1960 to current year.

REMARKS.--Record shows waste water from North Gila Valley Irrigation District returned to Gila River.

09529300. WELLTON-MOHAWK MAIN OUTLET DRAIN (CONVEYANCE CHANNEL).

LOCATION.--Water-stage recorder in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.17, T.8 S., R.21 W., 8 mi (13 km) upstream from outlet to Gila River (M.O.D.E. 1), which is 0.6 mi (1.0 km) upstream from mouth of Gila River. Prior to Feb. 20, 1962, gage heights measured from reference point on measuring bridge.

PERIOD OF RECORD.--Monthly discharge October 1960 to current year.

REMARKS.--Record shows water pumped from numerous wells in Wellton-Mohawk Irrigation and Drainage District to lower the water table. Flow can be discharged to the Gila River or Colorado River by any one of or combination of three outlets. These outlets are known as: M.O.D.E. 1 (release to Gila River about 8.0 mi (13 km) below station); M.O.D.E. 2 (see sta 09531800), release to Colorado River above Morelos Dam; and M.O.D.E. 3 (see sta 09531900), release to Colorado River below Morelos Dam. No water was released through M.O.D.E. 1 during the year.

09529350. MAIN OUTLET DRAIN ABOVE GILA RIVER.

LOCATION.--Water-stage recorder in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.30, T.8 S., R.22 W., about 1,000 ft (300 m) upstream from outlet to Gila River (M.O.D.E. 1), which is 0.6 mi (1.0 km) upstream from mouth of Gila River, and 8 mi (13 km) downstream from sta 09529300.

PERIOD OF RECORD.--Monthly discharge October 1965 to May 1974 (discontinued).

REMARKS.--Water pumped from numerous drainage wells in Wellton-Mohawk Irrigation and Drainage District, which normally would flow past this gage, was diverted to Gila River below sta 09529300 and pumped back into conveyance channel below this station while the earthen channel between the two stations was being concrete lined. Flow shown this year resulted entirely from ground-water inflow into unlined channel. Upon completion of lining of channel in May 1974, channel was put back into use for drainage flow and this station was discontinued since the flow would be expected to be equivalent to that at sta 09529300.

09529360. SOUTH GILA PUMP OUTLET CHANNEL NO. 1.

LOCATION.--Water-stage recorder in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.30, T.8 S., R.22 W., 0.2 mi (0.3 km) upstream from outlet to Gila River, which is 0.6 mi (1.0 km) upstream from mouth of Gila River. Prior to Aug. 1, 1965, Sparling flowmeter 300 feet (90 m) upstream.

PERIOD OF RECORD.--Monthly discharge August 1961 to current year.

REMARKS.--Record shows water pumped from wells in South Gila Valley Unit and conveyed by concrete channel to Gila River.

09529400. SOUTH GILA DRAIN NO. 2.

LOCATION.--Near center of sec.24, T.8 S., R.23 W., at outlet to Colorado River. Prior to Oct. 1, 1969, Sparling flowmeter at same site.

PERIOD OF RECORD.--Monthly discharge October 1960 to current year.

REMARKS.--Record shows ground-water drainage and occasional waste water from South Gila Valley Unit returned to Colorado River. There is no gage; flow record computed by interpolation between discharge measurements made monthly.

09529420. SOUTH GILA TERMINAL WASTEWAY.

LOCATION.--Water-stage recorder and Parshall flume in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.36, T.8 S., R.23 W., 2.0 mi (3.2 km) upstream from outlet to Colorado River. Prior to Aug. 1, 1965, total-flow meter at same site.

PERIOD OF RECORD.--Monthly discharge March 1965 to current year.

REMARKS.--Record shows waste water from South Gila Canal of South Gila Valley Unit returned to Colorado River.

09529440. SOUTH GILA PUMP OUTLET CHANNEL NO. 4.

LOCATION.--Water-stage recorder and broad-crested weir, in NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.26, T.8 S., R.23 W., 1.5 mi (2.4 km) upstream from outlet to Colorado River.

PERIOD OF RECORD.--Monthly discharge July 1965 to current year.

REMARKS.--Record shows water pumped from wells in South Gila Valley Unit and conveyed by concrete-lined channel to Colorado River.

09529600. RESERVATION DRAIN NO. 7.

LOCATION.--At downstream end of culvert on Avenue C in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.33, T.15 S., R.23 E., San Bernardino meridian, 0.5 mi (0.8 km) upstream from outlet to Reservation Main Drain. Prior to Oct. 1, 1969, nonrecording gage at same site.

PERIOD OF RECORD.--Monthly discharge March 1966 to current year.

REMARKS.--Record shows drainage water from sec.34, T.15 S., R.23 E., and is used with sta 09529700 to determine seepage from All-American Canal. There is no gage; flow record computed by interpolation between discharge measurements made monthly. Beginning June 20, 1957, Imperial Irrigation District makes discharge measurements weekly.

Return surface flows below Imperial Dam, Ariz.-Calif.--Continued

09529700. RESERVATION MAIN DRAIN NO. 6.

LOCATION.--Nonrecording gage on upstream right piling of 9th Street Bridge, in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.32, T.15 S., R.23 E., San Bernardino meridian.

PERIOD OF RECORD.--Monthly discharge March 1966 to current year.

REMARKS.--Record shows waste and drainage water from the Reservation Division, and is used with sta 09529600 to determine seepage from All-American Canal, which parallels drain for 4 mi (6.4 km). Flow record computed by interpolation between discharge measurements made monthly. The Imperial Irrigation District makes discharge measurements weekly.

09529800. RESERVATION DRAIN NO. 2.

LOCATION.--At upstream side of bridge in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.6, T.16 S., R.23 E., San Bernardino meridian, 0.9 mi (1.4 km) upstream from outlet to Reservation Main Drain.

PERIOD OF RECORD.--Monthly discharge March 1966 to current year.

REMARKS.--Record used to compute seepage from All-American Canal in sec.31, T.15 S., R.22 E. There is no gage; flow record computed by interpolation between discharge measurements made monthly. The Imperial Irrigation District makes discharge measurements weekly.

09529900. RESERVATION DRAIN NO. 3.

LOCATION.--Nonrecording gage on pier on right side of 5th Street Bridge in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.10, T.16 S., R.22 E., San Bernardino meridian, 1.0 mi (1.6 km) upstream from outlet to Reservation Main Drain.

PERIOD OF RECORD.--Monthly discharge March 1966 to current year.

REMARKS.--Record used to compute seepage from All-American Canal upstream from Yuma Main Canal. Flow record computed by interpolation between discharge measurements made monthly. Imperial Irrigation District makes discharge measurements weekly.

09530000. RESERVATION MAIN DRAIN NO. 4.

LOCATION.--Water-stage recorder in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.26, T.16 S., R.22 E., San Bernardino meridian, 1,000 ft (300 m) upstream from railroad culvert. Prior to Dec. 16, 1971, at culvert 1,000 ft (300 m) upstream. Drainage canal enters Yuma Main Canal wasteway 200 ft (60 m) downstream from spillway structure. Prior to May 1955, it entered 500 ft (150 m) upstream from outlet of Yuma Main Canal wasteway in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.26, T.16 S., R.22 E., San Bernardino meridian.

PERIOD OF RECORD.--Monthly discharge January 1913 to April 1920, October 1921 to March 1925, January 1934 to current year (calendar year discharge only 1934-36). Prior to October 1955, published as California drainage canal. Prior to January 1937, no gage; 1937 to Apr. 16, 1941, nonrecording gages at same site at different datums.

REMARKS.--Record shows waste and drainage water from area east of Yuma Main Canal on Reservation Division. Since 1939, seepage from All-American Canal has caused large increase. Flow is not included in the record of Yuma Main Canal wasteway.

09530200. YUMA MESA OUTLET DRAIN.

LOCATION.--Venturi meter with recorder in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.28, T.16 S., R.22 E., San Bernardino meridian, in Arizona, Yuma County, 0.3 mi (0.5 km) from outlet to Colorado River.

PERIOD OF RECORD.--Monthly discharge July 1970 to current year.

REMARKS.--Record shows water pumped from wells on the Yuma Mesa and conveyed by underground conduit to Colorado River.

COOPERATION.--Records furnished by Bureau of Reclamation prior to July 21, 1972.

09530400. RESERVATION DRAIN NO. 11.

LOCATION.--At outlet to Drain 8-B (Araz drain), in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.19, T.16 S., R.22 E., San Bernardino meridian.

PERIOD OF RECORD.--Monthly discharge March 1966 to current year.

REMARKS.--Record shows drainage from sec.20, T.16 S., R.22 E. Flow at this station, with that at sta 09530500, is used to determine seepage from All-American Canal. There is no gage; flow record computed by interpolation between discharge measurements made monthly. Beginning June 20, 1967, Imperial Irrigation District makes discharge measurements weekly.

09530500. DRAIN 8-B.

LOCATION.--Enters Colorado River in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.30, T.16 S., R.22 E., San Bernardino meridian, 4 mi (6.4 km) downstream from outlet of Yuma Main Canal wasteway.

PERIOD OF RECORD.--Monthly discharge March 1948 to current year. Prior to October 1955, published as Araz drain.

REMARKS.--Record shows seepage from All-American Canal, and waste and drainage water west of Yuma Main Canal on the Reservation Division. Flow at this station, with that at sta 09530400, is used to determine seepage from All-American Canal. There is no gage, but due to fairly constant drainage, flow record is computed by interpolation between discharge measurements made monthly. Imperial Irrigation District makes discharge measurements weekly at site 1,000 ft (300 m) upstream.

09531800. MAIN OUTLET DRAIN EXTENSION ABOVE MORELOS DAM (M.O.D.E. 2).

LOCATION.--Water-stage recorder and Parshall flume in NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.36, T.16 S., R.21 E., San Bernardino meridian, at outlet to Colorado River, 1.7 mi (2.7 km) upstream from Morelos Dam.

PERIOD OF RECORD.--Monthly discharge November 1965 to current year.

REMARKS.--Record shows water conveyed to Colorado River 1.7 mi (2.7 km) above Morelos Dam, from numerous drainage wells in Wellton-Mohawk Irrigation and Drainage District. (See also stas 09529300, 09529350, 09531900.)

Return surface flows below Imperial Dam, Ariz.--Calif.--Continued

09531850. COOPER WASTEWAY.

LOCATION.--Water-stage recorder and weir, in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.28, T.8 S., R.24 W., 0.6 mi (1.0 km) upstream from Morelos Dam. Prior to July 14, 1971, at site 1 mi (1.6 km) downstream.

PERIOD OF RECORD.--Monthly discharge January 1934 to current year.

REMARKS.--Record shows waste water from Valley Division returned to Colorado River.

COOPERATION.--Record furnished by International Boundary and Water Commission (U.S. Section).

09531900. MAIN OUTLET DRAIN EXTENSION BELOW MORELOS DAM (M.O.D.E 3).

LOCATION.--Water-stage recorder and Parshall flume in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.28, T.8 S., R.24 W., at outlet to Colorado River just downstream from Morelos Dam.

PERIOD OF RECORD.--Monthly discharge November 1965 to current year.

REMARKS.--Record shows water conveyed to Colorado River below Morelos Dam, from numerous drainage wells in Wellton-Mohawk Irrigation and Drainage District. (See also stas 09529300, 09529350, 09531800.)

COOPERATION.--Record furnished by International Boundary and Water Commission (U.S. Section).

09532500. ELEVEN MILE WASTEWAY.

LOCATION.--Water-stage recorder and regulating gate in SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.8, T.9 S., R.24 W., 3.2 mi (5.1 km) downstream from Morelos Dam.

PERIOD OF RECORD.--Monthly discharge January 1924 to current year.

REMARKS.--Record shows waste water from Valley Division returned to Colorado River.

COOPERATION.--Record furnished by International Boundary and Water Commission (U.S. Section).

09533000. TWENTY-ONE MILE WASTEWAY.

LOCATION.--Water-stage recorder and weir in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.35, T.10 S., R.25 W., 0.6 mi (1.0 km) upstream from outlet to Colorado River, which is 2.4 mi (3.9 km) upstream from southerly international boundary and 2.6 mi (4.2 km) northwest of San Luis, Ariz. Prior to May 1, 1971, water-stage recorder and Parshall flume at site 200 ft (60 m) upstream.

PERIOD OF RECORD.--Monthly discharge March 1939 to current year.

REMARKS.--Record shows waste water from Valley Division returned to Colorado River.

COOPERATION.--Record furnished by International Boundary and Water Commission (U.S. Section).

09534000. MAIN DRAIN.

LOCATION.--Flowmeters in discharge pipes at pumping plant in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.11, T.11 S., R.25 W., 0.4 mi (0.6 km) west of San Luis, Ariz. Prior to Apr. 1, 1969, rated pumps with forebay and afterbay gages to measure head.

PERIOD OF RECORD.--Monthly discharge January 1919 to current year.

REMARKS.--Record shows flow which consists mostly of drainage water from the Valley Division which is pumped across the Arizona-Sonora boundary for use in Mexico. Flowmeters checked by discharge measurements made by International Boundary and Water Commission (U.S. Section).

COOPERATION.--Record furnished by International Boundary and Water Commission (U.S. Section).

09534300. WEST MAIN CANAL WASTEWAY.

LOCATION.--Water-stage recorder in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.11, T.11 S., R.25 W., 150 ft (46 m) upstream from outlet to Main drain, which is 175 ft (53 m) upstream from East Main Canal wasteway and 0.4 mi (0.6 km) west of San Luis, Ariz.

PERIOD OF RECORD.--Monthly discharge February 1971 to current year.

REMARKS.--Record shows waste water from Valley Division which is discharged across the Arizona-Sonora boundary for use in Mexico.

COOPERATION.--Record furnished by International Boundary and Water Commission (U.S. Section).

09534500. EAST MAIN CANAL WASTEWAY.

LOCATION.--Water-stage recorder, in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.12, T.11 S., R.25 W., 0.2 mi (0.3 km) east of Main drain pumping plant and 0.2 mi (0.3 km) west of San Luis, Ariz.

PERIOD OF RECORD.--Monthly discharge January 1924 to June 1928, January 1932 to December 1933, April 1935 to current year. Calendar year estimates 1934 and 1935, published in WSP 1313.

REMARKS.--Record shows amount of unused water at the extreme end of the Valley Division which is discharged across the Arizona-Sonora boundary for use in Mexico.

COOPERATION.--Record furnished by International Boundary and Water Commission (U.S. Section).

Return surface flows below Imperial Dam, Ariz.-Calif.--Continued

MONTHLY RETURN FLOWS, IN ACRE-FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Month	Laguna Canal wasteway 09528600	Levee Canal wasteway 09528800	North Gila Drain No. 1 09529000	North Gila Drain No. 3 09529050	Fortuna wasteway 09529100
October	0	167	417	28	69
November	0	170	247	21	93
December	0	88	208	15	47
CAL YR 1973	0	1,530	4,030	296	650
January	0	42	153	12	63
February .....	.3	117	254	3.4	52
March	0	110	284	0	47
April	0	150	294	0	36
May	0	159	420	5.4	33
June	0	168	354	3.6	34
July	0	190	496	0	36
August	0	216	520	0	49
September	0	168	559	0	48
WTR YR 1974	0.3	1,740	4,210	88	607

Month	North Gila Main Canal wasteway 09529150	South Gila Pump Outlet Channel No. 3 09529160	Bruce Church Drain 09529200	South Gila Pump Outlet Channel No. 2 09529240	Bruce Church wasteway 09529250
October	0	3.9	43	0	21
November	0	2.6	67	8.0	27
December	0	1.8	57	5.1	99
CAL YR 1973	83	6,310	541	10,740	545
January	8.0	.5	43	.6	51
February	7.4	2.0	33	27	30
March	11	2.9	65	6.4	68
April	7.6	.9	69	26	4.6
May	33	.4	84	4.2	0
June	33	699	131	1,420	39
July	35	1,740	127	2,420	29
August	53	1,390	72	2,260	12
September	74	6.0	92	2,190	60
WTR YR 1974	261	3,850	883	8,360	442

Month	Wellton-Mohawk Main Outlet Drain 09529300	Main Outlet Drain above Gila River 09529350	South Gila Pump Outlet Channel No. 1 09529360	South Gila Drain No. 2 09529400	South Gila Terminal wasteway 09529420
October	17,450	1,310	3,100	0	73
November	17,740	1,000	2,820	5.6	32
December	17,930	334	3,050	6.1	134
CAL YR 1973	207,600	125,400	31,840	245	881
January	18,480	.6	2,240	6.1	95
February	12,870	0	2,800	8.1	30
March	18,210	0	3,060	4.4	44
April	18,030	0	2,780	12	22
May	18,720	0	2,830	46	30
June	12,220	-	2,690	25	28
July	18,620	-	2,590	0	18
August	18,330	-	2,380	0	31
September	16,790	-	2,260	0	54
WTR YR 1974	205,400	-	32,590	113	591

NOTE.--Yearly totals given above have been computed from total cfs-days and may differ slightly from the summation of monthly total acre-feet on occasion.

Return surface flows below Imperial Dam, Ariz.-Calif.--Continued

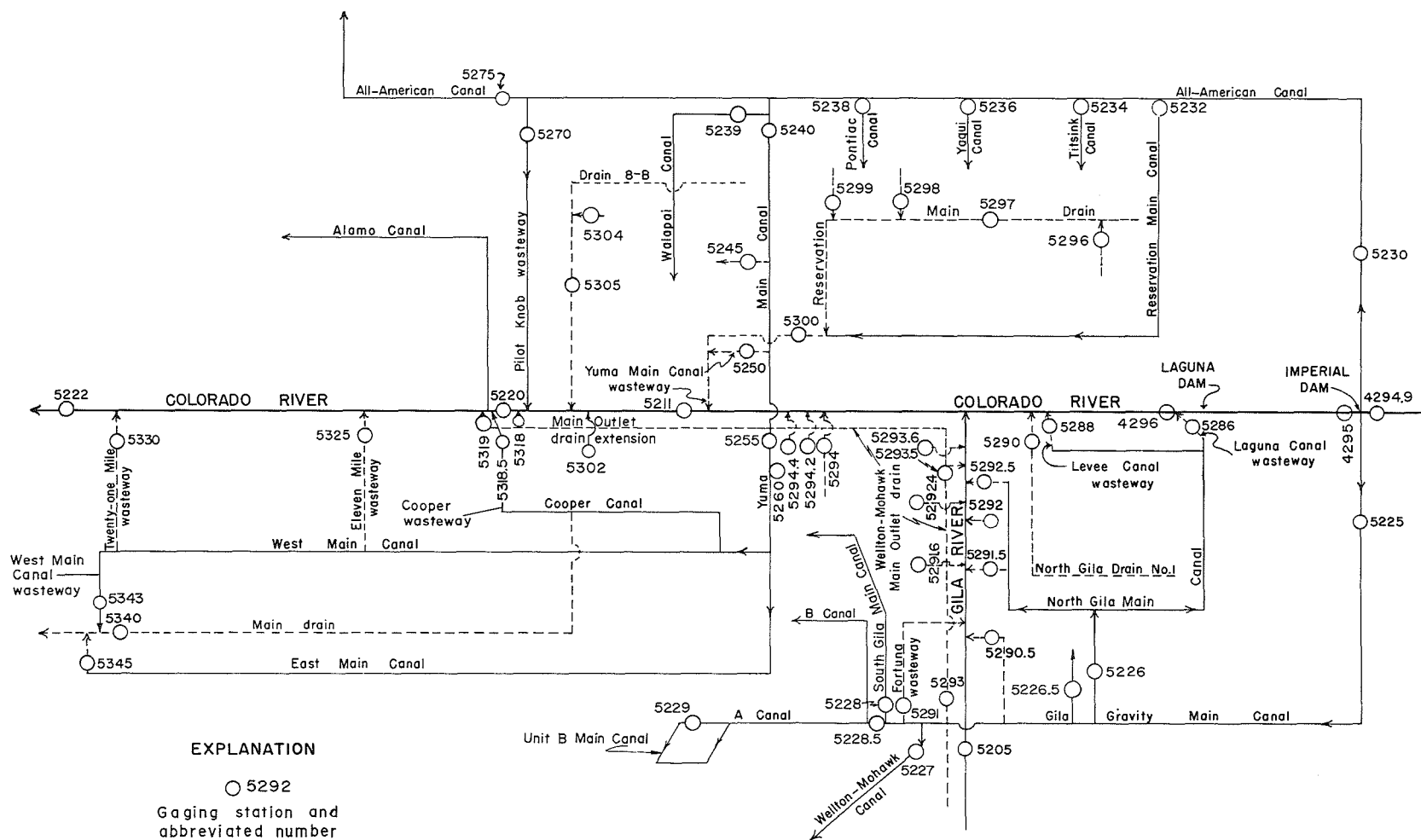
MONTHLY RETURN FLOWS, IN ACRE-FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Month	South Gila Pump Outlet Channel No. 4 09529440	Reservation Drain No. 7 09529600	Reservation Main Drain No. 6 09529700	Reservation Drain No. 2 09529800	Reservation Drain No. 3 09529900	Reservation Main Drain No. 4 09530000
October	1,190	106	1,150	12	319	3,580
November	768	101	992	19	246	3,420
December	1,260	91	922	12	212	3,040
CAL YR 1973	7,410	1,020	11,540	138	2,950	37,820
January	79	68	843	12	239	2,760
February	1,080	56	744	7.7	235	2,650
March	1,430	61	861	6.1	236	3,230
April	1,450	74	928	8.5	251	3,180
May .....	.3	98	1,020	12	267	3,340
June	353	102	1,010	12	290	3,240
July .....	.9	101	1,160	15	297	3,490
August	0	93	1,180	19	286	3,410
September .....	.6	86	1,070	15	257	3,320
WTR YR 1974	7,620	1,040	11,880	150	3,140	38,660

Month	Yuma Mesa Outlet Drain 09530200	Reservation Drain No. 11 09530400	Drain 8-B 09530500	M.O.D.E. 2 (above Morelos Dam) 09531800	Cooper wasteway 09531850	M.O.D.E. 3 (below Morelos Dam) 09531900
October	5,240	42	212	0	42	18,410
November	4,920	32	216	0	132	18,000
December	5,650	15	141	0	65	18,410
CAL YR 1973	58,670	233	1,650	8.5	700	214,800
January	3,710	11	112	0	63	18,410
February	4,830	5.6	74	0	45	13,510
March	5,430	6.1	106	0	81	18,510
April	4,430	6.0	96	0	28	18,060
May	4,920	6.1	103	0	99	18,980
June	4,770	6.0	106	0	56	13,270
July	4,180	6.9	118	0	102	18,920
August	4,850	21	162	0	19	18,570
September	5,180	30	167	0	45	17,110
WTR YR 1974	58,110	188	1,610	0	777	210,200

Month	Eleven Mile wasteway 09532500	Twenty-one Mile wasteway 09533000	Main Drain 09534000	West Main Canal wasteway 09534300	East Main Canal wasteway 09534500
October	37	0	10,090	354	699
November	178	0	9,050	515	821
December	205	0	8,270	188	674
CAL YR 1973	1,350	9.4	106,500	5,000	6,380
January	20	0	7,240	252	351
February	14	2.2	6,730	462	512
March	182	1.8	8,060	537	458
April	63	0	8,330	268	402
May	11	0	8,760	302	453
June	81	.4	8,220	480	416
July	28	.4	8,660	556	529
August	120	0	8,370	510	349
September	6.0	0	8,080	442	503
WTR YR 1974	945	4.8	99,860	4,870	6,170

NOTE.--Yearly totals given above have been computed from total cfs-days and may differ slightly from the summation of monthly total acre-feet on occasion.



EXPLANATION

○ 5292

Gaging station and abbreviated number

(Complete number as given in the station description of report is 09529200)

Figure 2.--Schematic diagram showing gaging stations on streams, diversions, and return flows between Imperial Dam and the southerly international boundary

10250600 WILDROSE CREEK NEAR WILDROSE STATION, CALIF.
(Hydrologic bench-mark station)

LOCATION.--Lat 36°15'54", long 117°10'40" (unsurveyed), Inyo County, Death Valley National Monument, on left bank 0.4 mi (0.6 km) east of Wildrose Range Headquarters, 2 mi (3 km) east of Wildrose Spring, and 2.5 mi (4.0 km) east of Wildrose Station.

DRAINAGE AREA.--23.7 mi² (61.4 km²).

PERIOD OF RECORD.--October 1960 to current year. Weather records since June 1964.

INSTRUMENTATION.--Water-stage recorder with rain-gage attachment at altitude of 4,300 ft (1,310 m), from topographic map. Recording and storage-type precipitation gages, recording anemometer, and maximum-minimum thermometer at altitude of 9,990 ft (3,040 m); similar instruments and 24-inch (6.1-cm) screened evaporation pan at altitude of 5,750 ft (1,750 m); recording rain gages at altitudes of 7,200 ft (2,190 m), 6,400 ft (1,950 m), 5,300 ft (1,620 m), and 5,200 ft (1,580 m); flowmeter recording ground-water withdrawals at altitude of 4,300 ft (1,310 m).

AVERAGE DISCHARGE.--14 years, 0.020 ft³/s (0.0006 m³/s), 14 acre-ft/yr (17,300 m³/yr).

EXTREMES.--Current year: No flow during year.

Period of record: Maximum discharge, 1,060 ft³/s (30.0 m³/s) Sept. 4, 1967 (gage height, 6.24 ft or 1.902 m), on basis of slope-area measurement of maximum flow; no flow all or most of each year.

REMARKS.--Records poor. No regulation or diversion above station except spring diversion to range headquarters.

Period	Pan evaporation (inches)	Temperature (°C) at altitude:				Ground water (acre-feet) 4,300 ft
		9,990 ft		5,750 ft		
		Maximum	Minimum	Maximum	Minimum	
Aug. 15 to Oct. 25	23.19	17.2	-6.7	18.3	3.3	1.93
Oct. 25 to Nov. 7	2.86	--	--	17.2	-8.3	--
Nov. 7 to Jan. 31	6.11	--	--	11.7	-1.1	--
Jan. 31 to Apr. 10	7.42	--	--	15.6	-1.7	--
Mar. 21 to Apr. 10	--	--	--	--	--	.68
Apr. 10 to June 20	22.62	17.8	2.8	27.2	10	2.56
June 20 to Aug. 8	19.2	23.9	2.8	34.4	16.1	1.78

Precipitation (inches) at location and altitude:

Month	117°05'05" 36°13'05"	117°04'15" 36°15'30"	117°06'50" 36°13'55"	117°06'40" 36°15'10"	117°08'10" 36°16'15"	117°09'50" 36°14'45"	117°10'40" 36°15'55"
	9,990 ft	7,200 ft	6,400 ft	5,750 ft	5,300 ft	5,200 ft	4,300 ft
October 1973.....	0	0.03	0	0	0	0	0
November.....	0	.54	.60	.50	.35	.70	.20
December.....	0	.01	0	0	0	.01	0
CAL YR 1973.....	1.02	6.87	7.64	5.36	4.67	7.96	6.30
January 1974.....	0	1.13	1.04	.95	.65	2.03	0
February.....	.08	0	0	0	0	0	0
March.....	.91	.95	.76	.20	.60	1.04	.90
April.....	0	0	0	0	0	.01	0
May.....	0	.25	.14	0	0	.38	.20
June.....	0	0	0	0	0	0	0
July.....	1.53	3.03	1.67	1.00	.99	.56	.90
August.....	.10	.13	.21	0	.15	.08	.40
September.....	0	0	0	0	0	0	0
WTR YR 1974.....	2.62	6.07	4.42	2.65	2.74	4.81	2.60

Average Wind Velocity (mph) at location and altitude:
117°05'05", 36°13'05" 117°06'40", 36°15'10"

Month	9,990 ft	5,750 ft
October 1973....	11.7	6.0
November.....	12.6	5.21
December.....	9.48	4.57
January 1974....	3.60	4.68
February.....	9.43	5.97
March.....	--	5.82
April.....	--	6.40
May.....	--	5.83
June.....	--	6.31
July.....	6.98	5.78
August.....	6.68	5.87
September.....	--	--

19S/44E-23K1. U.S. Geological Survey observation well drilled in alluvium to bedrock. Diameter 1.25 in (3.17 cm). Depth 30.0 ft (9.1 m). LSD 4,320 ft (1,320 m) above MSL.

HIGHEST WATER LEVEL.--24.37 ft (7.428 m) below LSD, Feb. 17, 1969.

LOWEST STATIC WATER LEVEL.--26.59 ft (8.105 m) below LSD, Apr. 28, 1971.

PERIOD OF RECORD.--February 1969 to current year.

Date	Water level
Oct. 25, 1973	26.29
Jan. 31, 1974	26.25
Apr. 10	26.28

10250800 DARWIN CREEK NEAR DARWIN, CALIF.

LOCATION.--Lat 36°19'14", long 117°31'23", in NW¼SE¼SW¼ sec.34, T.18 S., R.41 E., Inyo County, on left bank 510 ft (155 m) downstream from Darwin Falls, 1.6 mi (2.6 km) upstream from unnamed tributary, and 5.2 mi (8.4 km) northeast of Darwin.

DRAINAGE AREA.--173 mi² (448 km²).

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,640 ft (805 m), from topographic map. U.S. Weather Bureau nonrecording rain gage at Darwin. Prior to Aug. 6, 1970, at site 190 ft (58 m) downstream at same datum.

AVERAGE DISCHARGE.--12 years, 0.47 ft³/s (0.0133 m³/s), 341 acre-ft/yr (420,000 m³/yr).

EXTREMES.--Current year: Maximum discharge, 0.54 ft³/s (0.015 m³/s) May 4 (gage height, 2.86 ft or 0.872 m); minimum daily, 0.10 ft³/s (0.003 m³/s) June 3-5.

Period of record: Maximum discharge, 4,400 ft³/s (125 m³/s) Jan. 25, 1969 (gage height, 8.40 ft or 2.560 m, at site then in use, from floodmarks), on basis of slope-conveyance measurement of maximum flow; maximum gage height, 20.42 ft (6.224 m), present site from floodmarks, date and discharge unknown; minimum daily discharge, 0.05 ft³/s (0.001 m³/s) Aug. 30 to Sept. 4, 1969.

REMARKS.--Records poor. No regulation above station. Town of Darwin pumps water above station for municipal supply.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.15	.21	.18	.21	.24	.18	.19	.18	.14	.16	.16	.24
2	.15	.18	.18	.21	.27	.18	.18	.18	.14	.16	.16	.24
3	.15	.18	.18	.21	.27	.21	.18	.18	.10	.14	.16	.27
4	.15	.24	.21	.21	.24	.21	.17	.24	.10	.12	.24	.27
5	.15	.24	.21	.28	.24	.21	.16	.24	.10	.14	.21	.27
6	.15	.21	.21	.35	.24	.21	.16	.18	.11	.14	.21	.27
7	.15	.21	.18	.42	.24	.18	.15	.18	.11	.14	.21	.24
8	.16	.21	.18	.49	.24	.33	.15	.16	.12	.14	.21	.24
9	.16	.21	.16	.49	.21	.24	.14	.14	.12	.14	.21	.24
10	.16	.21	.16	.48	.18	.24	.14	.14	.13	.14	.24	.24
11	.16	.18	.16	.47	.18	.24	.14	.14	.14	.14	.24	.24
12	.16	.18	.16	.46	.18	.24	.14	.14	.14	.14	.24	.21
13	.16	.16	.16	.44	.16	.27	.16	.14	.15	.14	.27	.24
14	.16	.16	.16	.43	.16	.24	.16	.14	.15	.14	.27	.21
15	.17	.18	.16	.42	.16	.24	.18	.12	.16	.16	.24	.21
16	.17	.16	.16	.41	.16	.27	.18	.12	.16	.16	.24	.21
17	.17	.16	.16	.40	.14	.27	.18	.14	.17	.16	.24	.24
18	.17	.18	.18	.39	.14	.27	.16	.14	.18	.16	.24	.24
19	.17	.18	.16	.38	.12	.27	.18	.16	.18	.16	.24	.24
20	.17	.18	.16	.37	.12	.26	.16	.16	.19	.16	.24	.24
21	.17	.18	.21	.35	.14	.26	.16	.14	.18	.18	.24	.21
22	.18	.18	.21	.34	.14	.25	.16	.14	.18	.16	.24	.24
23	.18	.18	.21	.33	.14	.24	.16	.14	.18	.18	.25	.24
24	.18	.18	.21	.32	.14	.24	.18	.12	.18	.16	.25	.24
25	.18	.16	.21	.31	.16	.23	.18	.14	.16	.16	.25	.27
26	.18	.16	.21	.30	.18	.23	.16	.24	.18	.16	.25	.27
27	.18	.16	.21	.29	.16	.22	.21	.24	.18	.16	.25	.27
28	.18	.18	.24	.27	.16	.21	.16	.24	.18	.16	.25	.24
29	.18	.18	.24	.26	-----	.21	.16	.24	.18	.16	.24	.24
30	.21	.19	.24	.25	-----	.20	.18	.27	.16	.16	.27	.27
31	.21	-----	.21	.24	-----	.20	-----	.21	-----	.16	.24	-----
TOTAL	5.22	5.56	5.87	10.78	5.11	7.25	4.97	5.34	4.55	4.74	7.20	7.29
MEAN	.17	.19	.19	.35	.18	.23	.17	.17	.15	.15	.23	.24
MAX	.21	.24	.24	.49	.27	.33	.21	.27	.19	.18	.27	.27
MIN	.15	.16	.16	.21	.12	.18	.14	.12	.10	.12	.16	.21
AC-FT	10	11	12	21	10	14	9.9	11	9.0	9.4	14	14
(a)	0	.14	.05	1.09	0	1.18	0	.27	0	.16	.15	0

CAL YR 1973 TOTAL 74.06 MEAN .20 MAX 2.2 MIN .06 AC-FT 147
WTR YR 1974 TOTAL 73.88 MEAN .20 MAX .49 MIN .10 AC-FT 147

PEAK DISCHARGE (BASE, 10 FT³/S).--No peak above base.

a Precipitation, in inches.

DEATH VALLEY

10251100 SALT CREEK NEAR STOVEPIPE WELLS, CALIF.

LOCATION.--Lat 36°35'58", long 117°00'46", in NE¼ sec.6, T.16 S., R.46 E., Inyo County, Death Valley National Monument, on left bank 3.0 mi (4.8 km) southeast of intersection of State Highway 190 and Stovepipe Wells Road, and 7.4 mi (11.9 km) east of Stovepipe Wells Hotel.

PERIOD OF RECORD.--February to September 1974.

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is -180 ft (-55 m), from topographic map.

EXTREMES.--Maximum discharge during period, 80 ft³/s (2.27 m³/s) July 30, field estimate of peak flow (gage height, 3.27 ft or 0.997 m); minimum daily, 0.06 ft³/s (0.002 m³/s) June 16, 24, 25.

REMARKS.--Records good below 6.0 ft³/s (0.17 m³/s) and poor above. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					--	.63	.53	.33	.12	.07	.14	.09
2					--	.56	.50	.30	.12	.07	.13	.09
3					--	.57	.46	.29	.12	.08	.12	.09
4					--	.58	.48	.28	.11	.08	.11	.08
5					--	.61	.50	.31	.10	.08	.10	.08
6					--	.63	.50	.30	.10	.08	.09	.09
7					--	.60	.46	.29	.09	.08	.09	.09
8					--	1.1	.46	.27	.09	.09	.08	.08
9					--	.87	.41	.24	.10	.10	.08	.08
10					--	.75	.40	.22	.10	.11	.08	.08
11					--	.71	.41	.22	.09	.13	.08	.08
12					--	.69	.42	.20	.09	.13	.08	.09
13					.59	.68	.37	.18	.08	.13	.08	.09
14					.62	.67	.41	.20	.08	.14	.08	.10
15					.64	.65	.42	.19	.07	.14	.08	.10
16					.65	.66	.42	.18	.06	.13	.08	.10
17					.59	.66	.41	.18	.07	.13	.09	.11
18					.59	.64	.34	.18	.07	.13	.08	.10
19					.63	.58	.36	.22	.08	.16	.08	.11
20					.56	.60	.37	.22	.08	.14	.09	.11
21					.57	.59	.35	.22	.08	.14	.09	.10
22					.61	.59	.36	.22	.08	.13	.09	.10
23					.59	.58	.33	.22	.07	.16	.09	.10
24					.59	.57	.30	.20	.06	.16	.09	.10
25					.62	.56	.35	.19	.06	.14	.09	.10
26					.63	.56	.35	.18	.07	.14	.08	.10
27					.63	.56	.35	.16	.07	.14	.09	.10
28					.62	.53	.35	.14	.07	.14	.09	.10
29					-----	.55	.33	.14	.07	.14	.09	.11
30					-----	.53	.33	.14	.07	3.5	.09	.12
31		-----			-----	.50	-----	.13	-----	.15	.09	-----
TOTAL					--	19.56	12.03	6.74	2.52	7.14	2.82	2.87
MEAN					--	.63	.40	.22	.084	.23	.091	.096
MAX					--	1.1	.53	.33	.12	3.5	.14	.12
MIN					--	.50	.30	.13	.06	.07	.08	.08
AC-FT					--	39	24	13	5.0	14	5.6	5.7

PEAK DISCHARGE (BASE, 5.0 FT³/S).--July 30 (2215) 80 ft³/s, field estimate (3.27 ft).

10251300 AMARGOSA RIVER AT TECOPA, CALIF.

LOCATION.--Lat 35°50'53", long 116°13'43", in NW¼NW¼SE¼ sec.9, T.20 N., R.7 E., Inyo County, on right bank 20 ft (6 m) upstream from county road, and 0.2 mi (0.3 km) west of Tecopa.

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder and culvert control. Altitude of gage is 1,310 ft (399 m), from topographic map.

AVERAGE DISCHARGE.--13 years, 2.35 ft³/s (0.0666 m³/s), 1,700 acre-ft/yr (2.10 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 53 ft³/s (1.5 m³/s) July 24 (gage height, 4.33 ft or 1.320 m); no flow for several months.

Period of record: Maximum discharge, 5,000 ft³/s (142 m³/s), estimated, Feb. 26, 1969 (gage height, 18.34 ft or 5.590 m, from floodmark); no flow many days in most years.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.01	.54	1.5	1.6	.90	.30	.11	.01	0	.62	
2	0	.01	.62	1.5	2.2	.71	.34	.09	.01	0	.03	
3	0	.01	.54	1.5	1.7	.67	.34	.07	.02	0	.01	
4	0	.01	.40	1.5	1.2	1.2	.31	.15	.01	0	0	
5	0	.01	.40	8.0	1.5	1.1	.32	.34	.01	0	0	
6	0	.01	.47	3.0	1.6	1.1	.33	.15	.01	0	0	
7	0	.01	.54	3.5	.89	.79	.30	.13	.01	0	0	
8	0	.01	.62	10	.70	5.6	.31	.09	.01	0	0	
9	0	.01	.62	6.0	.76	11	.28	.06	.01	0	0	
10	0	.01	.70	2.5	.93	3.4	.24	.04	.01	0	0	
11	0	.01	.80	2.0	1.1	1.9	.21	.04	.01	0	0	
12	.01	.01	.90	1.8	1.2	1.8	.19	.03	.01	0	0	
13	.01	.01	1.0	1.7	.90	1.7	.18	.03	.01	0	0	
14	.01	.02	1.0	1.6	1.0	1.6	.18	.04	0	0	0	
15	.01	.02	1.0	1.5	1.3	1.4	.18	.04	0	0	0	
16	.01	.02	1.1	1.4	1.4	1.4	.20	.03	0	0	0	
17	.01	.02	1.1	1.4	1.3	1.3	.24	.03	0	0	0	
18	.01	.04	1.1	1.4	1.3	1.2	.18	.04	0	0	0	
19	.01	.05	1.1	1.4	1.1	1.2	.15	.05	0	0	0	
20	.01	.04	1.2	1.4	1.5	.88	.18	.07	0	0	0	
21	.01	.04	1.2	1.4	.80	.72	.15	.06	.01	0	0	
22	.01	.04	1.2	1.4	.80	.70	.15	.06	0	0	0	
23	.01	.04	1.2	1.4	1.0	.70	.15	.05	0	.02	0	
24	.01	.04	1.3	1.4	.82	.70	.13	.04	0	1.8	0	
25	.01	.11	1.3	1.4	.80	.68	.13	.04	0	1.4	0	
26	.01	.15	1.3	1.4	.86	.60	.13	.03	0	.01	0	
27	.01	.18	1.3	1.4	.89	.52	.15	.02	0	0	0	
28	.01	.22	1.4	1.4	.80	.43	.15	.01	0	0	0	
29	.01	.30	1.4	1.4	-----	.40	.15	.01	0	0	0	
30	.01	.40	1.4	1.4	-----	.37	.11	.01	0	0	0	
31	.01	-----	1.4	1.4	-----	.30	-----	.01	-----	8.0	0	-----
TOTAL	.20	1.86	30.15	70.0	31.95	46.97	6.36	1.97	.15	27.43	.66	0
WYAN	.007	.062	.97	2.26	1.14	1.52	.21	.064	.005	.88	.021	0
MAX	.01	.40	1.4	10	2.2	11	.34	.34	.02	18	.62	0
MIN	0	.01	.40	1.4	.70	.30	.11	.01	0	0	0	0
AC-FT	.4	3.7	60	139	63	93	13	3.9	.3	54	1.3	0

CAL YR 1973 TOTAL 415.41 MEAN 1.14 MAX - MIN 0 AC-FT 824
WTR YR 1974 TOTAL 217.70 MEAN .60 MAX 18 MIN 0 AC-FT 432

PEAK DISCHARGE (BASE, 15 FT³/S).--Mar. 9 (0130) 21 ft³/s (3.83 ft); July 24 (0215) 53 ft³/s (4.33 ft).

BRISTOL LAKE BASIN

10252550 CARUTHERS CREEK NEAR IVANPAH, CALIF.

LOCATION.--Lat 35°14'33", long 115°17'58", in NW¼NW¼NE¼ sec.6, T.13 N., R.16 E., San Bernardino County, on left bank 6.6 mi (10.6 km) south of Ivanpah.

DRAINAGE AREA.--1.13 mi² (2.93 km²).

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,640 ft (1,719 m), from topographic map.

AVERAGE DISCHARGE.--11 years, 0.072 ft³/s (0.0020 m³/s), 52 acre-ft/yr (64,100 m³/yr).

EXTREMES.--Current year: Maximum discharge, 13 ft³/s (0.37 m³/s) Jan. 12 (gage height, 1.73 ft or 0.527 m); no flow most of year.

Period of record: Maximum discharge, 518 ft³/s (14.7 m³/s) Aug. 25, 1969 (gage height, 4.77 ft or 1.454 m) on basis of slope-conveyance measurement of maximum flow; no flow most of each year.

REMARKS.--Records good. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0		0						0
2				0		0						.06
3				0		0						0
4				0		0						0
5				0		0						0
6				0		0						0
7				0		0						0
8				0		0						0
9				0		1.4						0
10				0		.90						0
11				0		.65						0
12				1.0		.44						0
13				.90		.44						0
14				.65		.27						0
15				.54		.20						0
16				.65		.14						0
17				1.0		.10						0
18				.77		.07						0
19				.44		.04						0
20				.35		.04						0
21				.20		.01						0
22				.10		0						0
23				.07		0						0
24				.03		0						0
25				0		0						0
26				.03		0						0
27				.01		0						0
28				0		0						0
29				0	-----	0						0
30				0	-----	0						0
31		-----		0	-----	0	-----		-----			0
TOTAL	0	0	0	6.74	0	4.70	0	0	0	0	0	.06
MEAN	0	0	0	.22	0	.15	0	0	0	0	0	.002
MAX	0	0	0	1.0	0	1.4	0	0	0	0	0	.06
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	13	0	9.3	0	0	0	0	0	.1

CAL YR 1973 TOTAL 27.44 MEAN .075 MAX 2.0 MIN 0 AC-FT 54
WTR YR 1974 TOTAL 11.50 MEAN .032 MAX 1.4 MIN 0 AC-FT 23

PEAK DISCHARGE (BASE, 10 FT³/S).--Jan. 12 (1700) 13 ft³/s (1.73 ft).

10254005 SALTON SEA NEAR WESTMORLAND, CALIF.

LOCATION.--Lat 33°11'37", long 115°49'54", in NE¼SE¼SW¼ sec.21, T.11 S., R.11 E., Imperial County, at outer end of third mooring pier from western shore at Sandy Beach, and 15.5 mi (24.9 km) northwest of Westmorland.

DRAINAGE AREA.--8,360 mi² (21,650 km²), approximately.

PERIOD OF RECORD.--November 1904 to current year. Records prior to 1932 are published in WSP 735.

GAGE.--Water-stage recorder. Datum of gage is 250.00 ft (76.2 m) below mean sea level; gage readings have been converted to elevations below mean sea level. See WSP 1734 for history of changes prior to Mar. 2, 1956.

EXTREMES.--Current year: Maximum elevation, 230.8 ft (70.3 m) below mean sea level on many days; minimum, 232.0 ft (70.7 m) below mean sea level Oct. 1, Nov. 5-9.

Period of record: Maximum elevation, 195.9 ft (59.7 m) below mean sea level in February and March 1907; minimum since 1906, 251.6 ft (76.7 m) below mean sea level in November 1924.

REMARKS.--Bottom of sea is 277.7 ft (84.6 m) below mean sea level. See WSP 300, 735, and 918 for condensed history of Salton Sea.

MONTHEND ELEVATIONS, IN FEET, BELOW MEAN SEA LEVEL, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Date	Elevation (feet)
Sept. 30.....	232.1	Apr. 30.....	230.8
Oct. 31.....	a 231.9	May 31.....	a 230.8
Nov. 30.....	a 231.9	June 30.....	231.0
Dec. 31.....	a 231.7	July 31.....	231.0
Jan. 31.....	231.5	Aug. 31.....	231.4
Feb. 28.....	231.3	Sept. 30.....	231.4
Mar. 31.....	231.0		

a Estimated.

INFLOW TO SALTON SEA

Salton Sea, located near the northeast corner of Imperial County, is a closed basin consisting of 8,360 mi² (21,650 km²).

The following table shows monthly and annual inflow, in acre-feet, for the water year October 1973 to September 1974 and the calendar year January to December 1973. Inflow from Imperial Valley is the sum of flows in Alamo River (see sta 10254730), New River (see sta 10255550), 22 drains and wasteways, and since October 1967 San Felipe Creek (see sta 10255885). Since October 1967 inflow from Coachella Valley is the sum of flows in Whitewater River (see sta 10259540), Salt Creek (see sta 10254050), and 20 drains. Flow in Whitewater River and Salt Creek was measured at gaging stations, that for the drains was furnished by Coachella County Water District (see Salton Sea basin for other flows to the sea). Table also shows amount of flow in Alamo and New Rivers contributed by Mexico as furnished by Imperial Irrigation District.

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Inflow from												
Imperial Valley	106,800	88,130	82,820	77,500	94,250	119,200	127,000	119,300	98,350	102,800	103,200	109,800
Coachella Valley	12,970	11,370	10,660	12,530	12,200	12,140	12,350	13,530	12,860	12,690	14,060	14,000
Total cal yr 1973		1,321,000 ac-ft										
Total wtr yr 1974		1,381,000 ac-ft										

FLOW FROM MEXICO AT INTERNATIONAL BOUNDARY

	91	122	100	101	90	87	126	95	94	77	66	88
Alamo River												
New River	9,020	9,680	10,500	11,830	9,260	10,430	10,760	9,620	8,290	8,210	9,060	7,780
Cal yr 1973: Alamo River			1,370 ac-ft		Wtr yr 1974:		1,140 ac-ft					
Cal yr 1973: New River			117,200 ac-ft		Wtr yr 1974:		114,400 ac-ft					

SALTON SEA BASIN

10254050 SALT CREEK NEAR MECCA, CALIF.

LOCATION.--Lat 33°26'49", long 115°50'33", in NE¼SE¼SW¼ sec.28, T.8 S., R.11 E., Riverside County, on pier of Southern Pacific Railroad bridge, 0.3 mi (0.5 km) upstream from mouth, and 16 mi (26 km) southeast of Mecca.

DRAINAGE AREA.--269 mi² (697 km²).

PERIOD OF RECORD.--January 1961 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 230 ft (70.1 m) below mean sea level (from topographic map).

AVERAGE DISCHARGE.--13 years, 5.48 ft³/s (0.1552 m³/s), 3,970 acre-ft/yr (4.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 331 ft³/s (9.37 m³/s) Jan. 7 (gage height, 6.90 ft or 2.103 m), from rating curve extended above 11 ft³/s (0.311 m³/s); minimum daily, 1.6 ft³/s (0.05 m³/s) June 28 to July 1.
Period of record: Maximum discharge, 1,260 ft³/s (35.7 m³/s) Aug. 10, 1971 (gage height, 6.92 ft or 2.109 m), from rating curve extended above 25 ft³/s (0.71 m³/s) on basis of slope-area measurement at gage height 6.62 ft (2.018 m); minimum daily, 0.40 ft³/s (0.01 m³/s) Aug. 10, 1966.

REMARKS.--Records good. No regulation or diversion above station. Flow sustained by irrigation seepage.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	3.4	5.1	6.2	8.2	6.8	4.8	2.8	2.4	1.6	2.1	2.6
2	2.4	3.7	5.1	6.3	8.6	6.8	4.8	2.8	2.4	1.7	2.1	2.6
3	2.5	3.8	5.1	6.0	8.2	6.8	4.5	2.8	2.2	1.8	2.1	6.1
4	2.5	3.8	5.0	6.2	7.8	6.5	4.2	2.8	2.1	1.8	2.1	4.0
5	2.6	3.9	5.2	8.0	8.0	6.2	4.0	2.8	2.1	1.8	2.1	3.2
6	2.6	3.9	5.2	12	8.2	6.2	4.0	3.0	2.1	1.7	2.1	3.0
7	2.7	4.0	5.2	30	7.8	7.8	4.2	3.0	2.1	1.7	2.1	2.9
8	2.8	4.1	5.2	61	7.6	7.8	4.0	3.0	2.1	1.7	2.0	2.7
9	2.8	4.2	5.4	22	7.8	9.0	3.8	3.0	2.1	1.7	2.0	3.7
10	2.8	4.2	5.4	11	7.8	8.6	3.8	3.0	1.9	1.8	2.0	5.7
11	2.8	4.2	5.4	9.0	8.2	7.5	3.7	2.8	1.8	1.8	2.1	10
12	2.9	4.2	5.4	8.0	9.2	7.1	3.7	2.6	1.8	1.8	2.1	5.4
13	3.0	4.2	5.5	8.2	9.2	7.1	3.7	4.4	1.8	1.9	2.1	3.9
14	3.0	4.2	5.5	8.0	10	6.8	3.7	7.3	1.8	1.9	2.1	4.1
15	3.0	4.1	5.5	7.8	9.4	6.8	3.5	4.8	1.8	2.1	2.2	7.3
16	3.0	4.2	5.5	8.0	7.1	6.2	3.7	4.0	1.7	2.1	2.2	8.2
17	3.0	4.3	5.5	8.0	7.1	6.2	3.5	3.5	1.7	2.0	2.2	5.0
18	3.0	4.3	5.5	7.8	7.1	6.2	3.5	3.3	1.7	2.0	2.4	4.8
19	3.0	4.4	5.6	8.0	7.5	5.9	3.5	3.0	1.8	2.0	4.3	4.7
20	3.0	4.3	5.5	8.0	9.0	5.9	3.5	3.0	1.8	2.1	6.2	3.6
21	3.0	4.3	5.6	7.8	6.8	5.6	3.5	3.0	1.8	2.1	3.0	3.5
22	3.0	4.5	5.7	7.6	5.9	5.4	3.3	3.8	1.8	2.1	2.6	3.3
23	3.1	4.6	5.9	7.3	6.8	5.6	3.3	8.2	1.8	2.1	2.6	3.2
24	3.2	5.0	5.9	7.0	6.8	5.4	3.3	4.5	1.8	2.1	2.6	5.5
25	3.2	5.0	5.9	7.1	6.5	5.4	3.3	3.5	1.8	2.1	3.2	15
26	3.2	5.0	5.7	7.5	6.5	5.4	3.3	2.9	1.7	2.0	3.3	5.4
27	3.3	4.9	5.9	7.6	7.5	5.4	3.3	2.7	1.7	2.1	4.8	4.1
28	3.3	4.8	6.0	7.6	7.1	5.2	3.2	2.6	1.6	2.1	2.6	3.9
29	3.2	4.8	6.0	7.6	-----	5.2	3.2	2.4	1.6	2.1	2.6	3.7
30	3.3	5.0	6.2	7.8	-----	5.2	3.0	2.2	1.6	2.2	2.6	3.7
31	3.2	-----	6.3	8.0	-----	5.0	-----	2.4	-----	2.1	2.6	-----
TOTAL	90.8	129.3	171.9	332.4	217.7	197.0	110.8	105.9	56.4	60.1	81.1	144.8
MEAN	2.93	4.31	5.55	10.7	7.78	6.35	3.69	3.42	1.88	1.94	2.62	4.83
MAX	3.3	5.0	6.3	61	10	9.0	4.8	8.2	2.4	2.2	6.2	15
MIN	2.4	3.4	5.0	6.0	5.9	5.0	3.0	2.2	1.6	1.6	2.0	2.6
AC-FT	180	256	341	659	432	391	220	210	112	119	161	287

CAL YR 1973 TOTAL 1,590.53 MEAN 4.36 MAX 23 MIN .84 AC-FT 3,150
WTR YR 1974 TOTAL 1,698.20 MEAN 4.65 MAX 61 MIN 1.6 AC-FT 3,370

LOCATION.--Lat 33°12'03", long 115°36'07", in NE¼SW¼NE¼ sec.22, T.11 S., R.13 E., Imperial County, on left bank 0.6 mi (1.0 km) upstream from mouth, and 5.8 mi (9.3 km) southwest of Niland.

GAGE.--Water-stage recorder. Datum of gage is 235 ft (72 m) below mean sea level (from topographic map).

REMARKS.--Discharge represents seepage and return flow from irrigated areas.

COOPERATION.--Records furnished by Imperial Irrigation District and reviewed by the Geological Survey.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,220	932	771	790	889	1,080	1,130	1,240	1,020	875	913	913
2	1,150	917	781	672	917	1,070	1,110	1,170	1,060	894	946	908
3	1,090	899	729	620	960	1,020	1,110	1,180	1,040	899	946	922
4	1,040	875	691	757	979	1,030	1,160	1,200	1,000	903	960	889
5	1,160	833	724	894	927	989	1,180	1,180	970	913	931	917
6	1,090	833	800	814	979	975	1,200	1,200	1,020	917	960	960
7	1,080	871	852	829	960	994	1,200	1,220	994	960	941	984
8	1,120	908	908	1,330	970	1,070	1,180	1,190	936	955	922	1,020
9	1,060	908	932	771	965	1,040	1,190	1,190	932	927	936	1,000
10	1,000	927	700	493	955	1,030	1,140	1,150	913	922	975	1,040
11	998	875	606	440	932	998	1,140	1,150	927	922	998	984
12	1,040	852	558	450	889	936	1,180	1,160	941	941	984	994
13	1,060	838	549	450	856	955	1,180	1,120	927	965	955	1,040
14	1,060	829	516	440	847	946	1,200	1,100	917	960	899	1,060
15	1,040	866	616	445	801	979	1,260	1,120	927	984	951	1,120
16	979	856	757	464	885	970	1,260	1,120	913	998	1,000	1,120
17	970	800	771	469	927	989	1,250	1,090	871	975	998	1,080
18	946	805	776	455	889	1,020	1,220	1,120	885	946	1,020	1,080
19	941	790	800	435	871	1,060	1,160	1,110	894	979	1,030	1,150
20	965	752	814	469	908	1,080	1,150	1,060	875	1,010	975	1,190
21	970	771	771	474	908	1,230	1,190	1,040	894	1,040	970	1,230
22	951	795	795	502	946	1,300	1,200	1,030	894	1,020	955	1,240
23	894	776	729	502	1,020	1,370	1,220	1,030	913	998	889	1,240
24	908	776	677	521	975	1,290	1,230	998	927	955	903	1,220
25	908	795	611	530	951	1,260	1,300	1,030	889	979	936	1,240
26	871	733	577	639	951	1,210	1,310	994	894	941	917	1,220
27	866	724	587	635	975	1,220	1,260	970	908	913	894	1,240
28	866	696	719	667	965	1,240	1,270	960	885	875	861	1,250
29	894	696	738	691	-----	1,240	1,280	965	932	866	889	1,200
30	889	738	771	771	-----	1,210	1,290	884	894	847	880	1,160
31	936	-----	771	833	-----	1,160	-----	1,020	-----	885	927	-----
TOTAL	31,902	24,676	22,397	19,252	26,057	33,961	36,150	33,991	27,992	29,164	29,261	32,611
MEAN	1,000	823	722	621	931	1,096	1,205	1,096	933	941	944	1,087
MAX	1,220	932	932	1,330	1,020	1,370	1,310	1,240	1,060	1,040	1,030	1,250
MIN	866	696	516	435	847	936	1,110	884	871			

SALTON SEA BASIN

49

10255700 SAN FELIPE CREEK NEAR JULIAN, CALIF.

LOCATION.--Lat 33°07'07", long 116°26'04", San Diego County, in Anza Borrego State Park, on left bank under bridge on State Highway 78 in Sentenac Canyon, 1.0 mi (1.6 km) upstream from Grapevine Canyon, and 10 mi (16 km) northeast of Julian.

DRAINAGE AREA.--89.2 mi² (231.0 km²).

PERIOD OF RECORD.--August 1958 to current year.

GAGE.--Water-stage recorder and concrete low-water control. Datum of gage is 1,872.69 ft (570.796 m) above mean sea level.

AVERAGE DISCHARGE.--16 years, 0.24 ft³/s (0.0068 m³/s), 174 acre-ft/yr (215,000 m³/yr).

EXTREMES.--Current year: Maximum discharge, 7.5 ft³/s (0.21 m³/s) Jan. 8 (gage height, 1.69 ft or 0.515 m); no flow Oct. 1 to Dec. 21, May 29 to Sept. 30.
Period of record: Maximum discharge, 1,050 ft³/s (29.7 m³/s) Aug. 22, 1967 (gage height, 4.08 ft or 1.244 m), from rating curve extended above 12 ft³/s (0.34 m³/s) on basis of slope-area measurement at gage height 3.50 ft (1.067 m); 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	.15	.27	.34	.28	.16				
2			0	.16	.27	.34	.36	.12				
3			0	.15	.27	.34	.32	.11				
4			0	.27	.27	.34	.32	.10				
5			0	2.1	.28	.30	.30	.09				
6			0	.43	.27	.30	.29	.09				
7			0	1.8	.27	.31	1.4	.08				
8			0	3.0	.27	.56	.49	.07				
9			0	.50	.28	.38	.51	.07				
10			0	.35	.30	.34	.55	.07				
11			0	.29	.30	.31	.54	.06				
12			0	.27	.30	.30	.52	.05				
13			0	.27	.30	.30	.51	.06				
14			0	.27	.30	.30	.42	.08				
15			0	.27	.30	.30	.38	.09				
16			0	.27	.30	.30	.30	.09				
17			0	.26	.31	.30	.24	.09				
18			0	.25	.32	.30	.22	.10				
19			0	.27	.34	.28	.20	.11				
20			0	.26	.32	.27	.21	.12				
21			0	.24	.30	.27	.20	.10				
22			.01	.24	.33	.27	.20	.07				
23			.07	.24	.33	.27	.20	.06				
24			.08	.24	.31	.27	.21	.06				
25			.10	.25	.30	.27	.21	.05				
26			.11	.25	.32	.27	.20	.03				
27			.12	.24	.32	.27	.20	.01				
28			.12	.25	.31	.27	.19	.01				
29			.12	.27	-----	.27	.17	0				
30			.14	.27	-----	.27	.17	0				
31	-----		.13	.27	-----	.28	-----	0	-----			-----
TOTAL	0	0	1.00	14.35	8.36	9.49	10.31	2.20	0	0	0	0
MEAN	0	0	.032	.46	.30	.31	.34	.071	0	0	0	0
MAX	0	0	.14	3.0	.34	.56	1.4	.16	0	0	0	0
MIN	0	0	0	.15	.27	.27	.17	0	0	0	0	0
AC-FT	0	0	2.0	28	17	19	20	4.4	0	0	0	0

CAL YR 1973 TOTAL 45.32 MEAN .12 MAX 2.3 MIN 0 AC-FT 90
WTR YR 1974 TOTAL 45.71 MEAN .13 MAX 3.0 MIN 0 AC-FT 91

PEAK DISCHARGE (BASE, 50 FT³/S).--No peak above base.

10255800 COYOTE CREEK NEAR BORREGO SPRINGS, CALIF.

LOCATION.--Lat 33°22'06", long 116°25'14", in NE¼NE¼NE¼ sec.26, T.9 S., R.5 E., San Diego County, on left bank 0.5 mi (0.8 km) downstream from Box Canyon, 1.8 mi (2.9 km) northwest of Rancho De Anza, and 8.2 mi (13.2 km) northwest of Borrego Springs.

DRAINAGE AREA.--144 mi² (373 km²).

PERIOD OF RECORD.--October 1950 to current year. Monthly discharge only for October and November 1950, published in WSP 1734.

GAGE.--Water-stage recorder. Altitude of gage is 1,250 ft (381 m), from topographic map. Prior to Mar. 24, 1967, at site 0.6 mi (1.0 km) upstream at different datum.

AVERAGE DISCHARGE.--24 years, 1.91 ft³/s (0.0541 m³/s), 1,380 acre-ft/yr (1.70 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,550 ft³/s (43.9 m³/s) Sept. 25 (gage height, 12.88 ft or 3.926 m), from rating curve extended above 2.0 ft³/s (0.057 m³/s) on basis of slope-area measurement at gage height 12.5 ft (3.81 m); no flow Nov. 27, Dec. 1, 2.

Period of record: Maximum discharge, 3,800 ft³/s (108 m³/s) July 28, 1951 (gage height, 14.14 ft or 4.310 m, from floodmarks, site and datum then in use) on basis of slope-area measurement of maximum flow; no flow at times in some years.

REMARKS.--Records good except those for periods of no gage-height record, which are poor. No regulation above station. Diversion about 0.5 mi (0.8 km) upstream for irrigation below station since January 1973.

REVISIONS (WATER YEARS).--WRD Calif. 1972: 1969, 1971.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.63	.38	0	1.5	.06	.71	.38	.47	.31	.23	.30	.36
2	.63	.74	0	1.6	1.0	.87	.34	.50	.35	.23	.30	.30
3	.63	.74	.45	1.7	1.4	1.1	.35	.34	.38	.20	.30	.36
4	.63	.91	.46	2.1	.97	.77	.28	.41	.35	.20	.30	.44
5	.63	1.0	.79	3.0	.72	.76	.32	.43	.38	.15	.30	.44
6	.53	1.0	.56	1.5	.21	.69	.29	.40	.39	.17	.30	.44
7	.53	.74	.73	8.4	.58	.98	.27	.34	.39	.19	.30	.36
8	.44	.81	.71	2.0	.81	1.3	.26	.37	.49	.21	.30	.36
9	.74	.29	.83	1.0	1.1	1.4	.28	.37	.37	.17	.30	.30
10	.24	.62	.99	.80	1.1	1.3	.33	.52	.40	.25	.30	.36
11	.30	.70	.76	.66	1.1	1.0	.37	.36	.40	.22	.30	.36
12	.44	.86	.80	.46	1.6	.71	.29	.38	.41	.29	.30	.24
13	.53	.69	.73	.46	1.4	.52	.33	.38	.29	.22	.30	.15
14	.53	.67	.77	.40	1.0	.74	.30	.39	.34	.35	.30	.19
15	.44	.68	.89	.37	1.2	.46	.22	.49	.37	.32	.44	.44
16	.30	.71	.88	.39	.91	.45	.17	.33	.28	.31	.44	.45
17	.24	.62	1.1	.60	.95	.72	.29	.38	.32	.20	.44	.38
18	.44	.45	.84	.62	1.0	.71	.44	.41	.23	109	.36	.64
19	.63	.29	.68	.56	1.0	.72	.53	.35	.27	5.0	.36	.75
20	.53	.25	.81	.61	.76	.73	.48	.30	.28	2.0	.36	.73
21	.63	.77	1.2	.66	.77	.64	.41	.50	.27	1.0	.30	.54
22	.63	.76	1.2	.79	.69	.56	.37	.26	.29	.50	.24	.70
23	.86	1.4	1.2	1.2	.95	.73	.36	.28	.20	.50	.24	.88
24	.86	1.4	.73	.82	.87	.40	.39	.34	.28	.30	.30	.97
25	.74	.97	.84	.67	.93	.52	.42	.29	.25	.30	.30	121
26	.74	.05	.83	.80	.79	.32	.43	.25	.26	.30	.30	6.8
27	.74	0	.87	1.5	.77	.28	.38	.19	.23	.30	.36	2.1
28	.74	.22	1.0	1.6	.78	.33	.37	.24	.27	.30	.44	1.9
29	.52	.74	1.3	.82	-----	.41	.27	.26	.15	.30	.44	1.5
30	.51	.03	1.3	1.1	-----	.40	.24	.32	.26	.30	.44	1.0
31	.51	-----	1.1	1.0	-----	.48	-----	.30	-----	.30	.30	-----
TOTAL	16.99	19.49	25.35	39.69	25.42	21.71	10.16	11.15	9.46	124.31	10.26	145.44
MEAN	.55	.65	.82	1.28	.91	.70	.34	.36	.32	4.01	.33	4.85
MAX	.86	1.4	1.3	8.4	1.6	1.4	.53	.52	.49	109	.44	121
MIN	.24	0	0	.37	.06	.28	.17	.19	.15	.15	.24	.15
AC-FT	34	39	50	79	50	43	20	22	19	247	20	288

CAL YR 1973 TOTAL 207.47 MEAN .57 MAX 2.1 MIN 0 AC-FT 412
WTR YR 1974 TOTAL 459.43 MEAN 1.26 MAX 121 MIN 0 AC-FT 911

PEAK DISCHARGE (BASE, 50 FT³/S).--July 18 (time unknown) 1,400 ft³/s (12.50 ft); Sept. 25 (1545) 1,550 ft³/s (12.88 ft).

NOTE.--No gage-height record Jan. 8-10, July 18 to Aug. 13, Sept. 25-30.

SALTON SEA BASIN

51

10255810 BORREGO PALM CREEK NEAR BORREGO SPRINGS, CALIF.

LOCATION.--Lat 33°16'44", long 116°25'45", in Anza-Borrego Desert State Park, San Diego County, on left bank 3.3 mi (5.3 km) northwest of Borrego Springs.

DRAINAGE AREA.--21.8 mi² (56.5 km²).

PERIOD OF RECORD.--October 1950 to current year. Prior to October 1960, published as "Palm Canyon Creek near Borrego Springs." Monthly discharge only for October to November 1950, published in WSP 1734.

GAGE.--Water-stage recorder. Altitude of gage is 1,200 ft (366 m), from topographic map.

AVERAGE DISCHARGE.--24 years, 0.33 ft³/s (0.0093 m³/s), 239 acre-ft/yr (295,000 m³/yr).

EXTREMES.--Current year: Maximum discharge, 3.8 ft³/s (0.11 m³/s) Jan. 7 (gage height, 2.06 ft or 0.628 m); no flow most of year.

Period of record: Maximum discharge, 2,000 ft³/s (56.6 m³/s), estimated, Aug. 23, 1955 (gage height, 9.0 ft or 3.02 m, from floodmarks); no flow for several months in each year.

REMARKS.--Records good. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	.22	.15	.08	.02				
2				0	.19	.14	.13	.02				
3				0	.19	.15	.14	.01				
4				0	.19	.21	.08	.01				
5				0	.17	.18	.08	.02				
6				0	.17	.17	.08	.02				
7				.70	.17	.19	.08	.01				
8				1.7	.17	.69	.06	.02				
9				.85	.17	.56	.06	0				
10				.70	.17	.42	.06	0				
11				.46	.17	.35	.05	0				
12				.28	.17	.30	.05	0				
13				.38	.16	.27	.04	0				
14				.42	.16	.25	.03	0				
15				.38	.16	.24	.03	0				
16				.38	.16	.24	.02	0				
17				.42	.16	.24	.02	0				
18				.46	.16	.25	.02	0				
19				.42	.17	.22	.02	0				
20				.38	.16	.19	.02	0				
21				.42	.16	.17	.02	0				
22				.34	.16	.16	.02	0				
23				.31	.15	.16	.02	0				
24				.28	.15	.14	.02	0				
25				.25	.15	.12	.02	0				
26				.25	.15	.12	.02	0				
27				.25	.15	.12	.02	0				
28				.25	.15	.12	.02	0				
29				.25	-----	.11	.02	0				
30				.22	-----	.10	.02	0				
31		-----		.22	-----	.10	-----	0	-----			-----
TOTAL	0	0	0	10.97	4.66	6.83	1.35	.13	0	0	0	0
MEAN	0	0	0	.35	.17	.22	.045	.004	0	0	0	0
MAX	0	0	0	1.7	.22	.69	.14	.02	0	0	0	0
MIN	0	0	0	0	.15	.10	.02	0	0	0	0	0
AC-FT	0	0	0	22	9.2	14	2.7	.3	0	0	0	0

CAL YR 1973 TOTAL 130.00 MEAN .36 MAX 3.7 MIN 0 AC-FT 258
WTR YR 1974 TOTAL 23.94 MEAN .066 MAX 1.7 MIN 0 AC-FT 47

PEAK DISCHARGE (BASE, 15 FT³/S).--No peak above base.

SALTON SEA BASIN

10255850 VALLECITO CREEK NEAR JULIAN, CALIF.

LOCATION.--Lat 32°59'10", long 116°25'10", in SW¼NE¼ sec.1, T.14 S., R.5 E., San Diego County, on right bank 0.2 mi (0.3 km) downstream from Cottonwood Wash, and 12.6 mi (20.3 km) southeast of Julian.

DRAINAGE AREA.--39.7 mi² (102.8 km²).

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,950 ft (594 m) above mean sea level (from topographic map).

AVERAGE DISCHARGE.--11 years, 0.12 ft³/s (0.0034 m³/s), 87 acre-ft/yr (107,300 m³/yr).

EXTREMES.--Current year: Maximum discharge, 9.1 ft³/s (0.26 m³/s) July 25 (gage height, 2.02 ft or 0.616 m); minimum daily, 0.01 ft³/s (<0.001 m³/s) Oct. 20, Sept. 27, 30.

Period of record: Maximum discharge, 434 ft³/s (12.3 m³/s) July 17, 1969 (gage height, 5.82 ft or 1.774 m, from high-water mark in well), from rating curve extended above 160 ft³/s (4.53 m³/s) on basis of velocity-area study of maximum flow; no flow at times in some years.

REMARKS.--Records good. No regulation or diversion above station. Precipitation record discontinued Sept. 30, 1972.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.03	.04	.06	.06	.05	.05	.04	.04	.04	.04	.03
2	.03	.05	.04	.06	.06	.05	.05	.04	.04	.04	.04	.03
3	.03	.05	.04	.06	.06	.05	.05	.04	.04	.04	.04	.03
4	.03	.05	.04	.06	.05	.05	.05	.04	.04	.04	.29	.03
5	.04	.04	.04	.06	.05	.05	.05	.04	.04	.04	.04	.03
6	.03	.04	.04	.06	.05	.04	.05	.04	.05	.04	.04	.03
7	.03	.04	.04	.09	.05	.05	.05	.05	.05	.04	.04	.03
8	.03	.04	.04	.05	.05	.05	.05	.04	.05	.04	.04	.03
9	.03	.04	.04	.04	.05	.04	.04	.05	.05	.04	.04	.03
10	.04	.04	.04	.04	.05	.04	.05	.05	.04	.04	.04	.03
11	.04	.04	.04	.04	.05	.04	.05	.05	.04	.04	.04	.03
12	.04	.04	.04	.04	.05	.04	.04	.05	.04	.04	.03	.03
13	.04	.04	.04	.04	.05	.04	.04	.05	.04	.04	.03	.03
14	.04	.05	.04	.04	.05	.05	.04	.04	.04	.04	.03	.03
15	.04	.05	.05	.05	.05	.05	.04	.04	.04	.04	.03	.03
16	.02	.05	.04	.05	.05	.05	.04	.04	.04	.04	.03	.03
17	.03	.05	.04	.06	.05	.05	.04	.04	.04	.04	.03	.03
18	.03	.05	.04	.06	.05	.05	.04	.04	.04	.04	.03	.03
19	.03	.05	.05	.06	.05	.05	.04	.04	.04	.04	.03	.03
20	.01	.05	.05	.06	.05	.05	.04	.04	.04	.05	.03	.02
21	.02	.05	.04	.06	.05	.05	.04	.04	.04	.04	.03	.02
22	.03	.05	.04	.06	.05	.05	.04	.04	.04	.04	.03	.02
23	.02	.04	.04	.06	.05	.05	.04	.04	.04	.04	.03	.02
24	.03	.04	.04	.05	.05	.05	.04	.04	.04	.04	.03	.02
25	.03	.04	.05	.06	.04	.05	.05	.04	.04	.40	.03	.02
26	.03	.04	.05	.06	.05	.05	.04	.04	.04	.04	.03	.02
27	.03	.04	.05	.06	.04	.05	.04	.04	.04	.04	.03	.01
28	.03	.04	.04	.06	.05	.05	.04	.04	.04	.04	.03	.02
29	.03	.04	.05	.06	-----	.05	.03	.04	.04	.04	.03	.02
30	.03	.04	.05	.06	-----	.05	.03	.04	.04	.04	.03	.01
31	.03	-----	.05	.06	-----	.05	-----	.04	-----	.04	.03	-----
TOTAL	.95	1.31	1.33	1.73	1.41	1.49	1.29	1.30	1.24	1.61	1.29	.77
MEAN	.031	.044	.043	.056	.050	.048	.043	.042	.041	.052	.042	.026
MAX	.04	.05	.05	.09	.06	.05	.05	.05	.05	.40	.29	.03
MIN	.01	.03	.04	.04	.04	.04	.03	.04	.04	.04	.03	.01
AC-FT	1.9	2.6	2.6	3.4	2.8	3.0	2.6	2.6	2.5	3.2	2.6	1.5

CAL YR 1973 TOTAL 15.65 MEAN .043 MAX .08 MIN .01 AC-FT 31
WTR YR 1974 TOTAL 15.72 MEAN .043 MAX .40 MIN .01 AC-FT 31

PEAK DISCHARGE (BASE, 15 FT³/S).--No peak above base.

10255885 SAN FELIPE CREEK NEAR WESTMORLAND, CALIF.

LOCATION.--Lat 33°07'25", long 115°51'08", in NW¼SW¼ sec.17, T.12 S., R.11 E., Imperial County, on left bank 320 ft (98 m) downstream from U.S. Highway 99, and 14.6 mi (23.5 km) northwest of Westmorland.

DRAINAGE AREA.--1,693 mi² (4,385 km²).

PERIOD OF RECORD.--December 1960 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 190 ft (58 m) below mean sea level, from topographic map.

AVERAGE DISCHARGE.--13 years (1961-74), 3.38 ft³/s (0.0957 m³/s), 2,450 acre-ft/yr (3.02 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,240 ft³/s (63.4 m³/s) Jan. 8 (gage height, 9.40 ft or 2.865 m), from rating curve extended above 5 ft³/s (0.14 m³/s) on basis of slope-area measurements at gage heights 8.23 ft (2.508 m), 9.30 ft (2.835 m), and 12.36 ft (3.767 m); no flow most of year.

Period of record: Maximum discharge, 7,790 ft³/s (221 m³/s) Sept. 2, 1967 (gage height, 10.93 ft or 3.332 m), from rating curve extended above 6 ft³/s (0.17 m³/s) on basis of slope-area measurements at gage heights 6.56 ft (2.000 m), 10.18 ft (3.103 m), and 10.75 ft (3.277 m); no flow for some months in each year.

REMARKS.--Records poor. No regulation above station. Diversion and pumping for domestic use and irrigation in Borrego Valley 25 mi (40 km) upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	.12	.10	.03			0		.79
2				0	.12	.10	.03			0		31
3				0	.12	.09	.03			0		.04
4				0	.12	.09	.02			0		0
5				0	.12	.09	.02			0		0
6				0	.12	.09	.02			0		0
7				142	.12	.08	.02			0		0
8				382	.13	2.3	.01			0		0
9				1.0	.13	.10	.01			0		0
10				.80	.13	.10	.01			0		0
11				.60	.13	.09	.01			0		0
12				.40	.13	.09	0			0		0
13				.20	.13	.08	0			0		0
14				.10	.13	.08	0			0		0
15				.10	.13	.07	0			0		0
16				.10	.13	.07	0			0		0
17				.10	.13	.06	0			0		0
18				.10	.13	.06	0			0		0
19				.10	.12	.05	0			0		0
20				.10	.12	.05	0			0		0
21				.10	.12	.05	0			0		0
22				.10	.12	.05	0			0		0
23				.11	.11	.05	0			0		0
24				.11	.11	.05	0			0		0
25				.11	.11	.05	0			0		0
26				.11	.11	.04	0			4.5		0
27				.11	.10	.04	0			0		0
28				.11	.10	.04	0			0		0
29				.11	-----	.04	0			0		0
30				.11	-----	.04	0			0		0
31		-----		.12	-----	.03	-----		-----	0		-----
TOTAL	0	0	0	528.90	3.39	4.32	.21	0	0	4.5	0	31.83
MEAN	0	0	0	17.1	.12	.14	.007	0	0	.15	0	1.06
MAX	0	0	0	382	.13	2.3	.03	0	0	4.5	0	31
MIN	0	0	0	0	.10	.03	0	0	0	0	0	0
AC-FT	0	0	0	1,050	6.7	8.6	.4	0	0	8.9	0	63
CAL YR 1973	TOTAL	30.13	MEAN	.08	MAX	18	MIN	0	AC-FT	60		
WTR YR 1974	TOTAL	573.15	MEAN	1.57	MAX	382	MIN	0	AC-FT	1,140		

DATE	TIME	PEAK DISCHARGE (BASE, 200 FT ³ /S)	DATE	TIME	G.H.	DISCHARGE
1-7	1900	7.85	9-2	0230	6.30	235
1-8	0300	9.40				

NOTE.--No gage-height record Jan. 9 to Apr. 11.

SALTON SEA BASIN

10256000 WHITEWATER RIVER AT WHITE WATER, CALIF.

LOCATION.--Lat 33°56'48", long 116°38'24", in NW¼NW¼NE¼ sec.2, T.3 S., R.3 E., Riverside County, on right bank 1.5 mi (2.4 km) north of White Water, and 3.5 mi (5.6 km) upstream from San Geronio River.

DRAINAGE AREA.--57.4 mi² (149 km²).

PERIOD OF RECORD.--October 1948 to current year.

GAGE.--Water-stage recorder on river (supplementary gage used Oct. 1, 1972 to Apr. 16, 1973); water-stage recorder and Cipolletti weir on diversion 500 ft (152 m) downstream. Datum of gage is 1,610 ft (491 m) above mean sea level. Feb. 24, 1950, to Sept. 30, 1952, and Apr. 13, 1960, to June 19, 1968, supplementary gages at different sites and datums within 200 ft (61 m) of base gage. Since Aug. 12, 1969, supplementary gage at site 1.5 mi (2.4 km) downstream at different datum.

AVERAGE DISCHARGE (River only).--26 years, 16.3 ft³/s (0.464 m³/s), 11,810 acre-ft/yr (14.6 hm³/yr). (Combined river and infiltration line).--25 years (1949-74), 17.8 ft³/s (0.504 m³/s), 12,900 acre-ft/yr (15.9 hm³/yr).

EXTREMES (River only).--Current year: Maximum discharge, 74 ft³/s (2.10 m³/s) Mar. 8, on basis of slope-conveyance measurement; minimum daily, 6.1 ft³/s (0.173 m³/s) July 21.

Period of record: Maximum discharge, 24,000 ft³/s (680 m³/s) Nov. 22, 1965 (gage height, 13.60 ft or 4.145 m), from rating curve extended above 660 ft³/s (18.7 m³/s) on basis of field estimate of maximum flow; no flow at times in some years.

Maximum discharge, 42,000 ft³/s (1,190 m³/s) Mar. 2, 1938, by slope-area measurement of peak flow, at site 2.5 mi (4.0 m) upstream, drainage area, 51.4 mi² (133 km²).

REMARKS.--Records poor. White Water Mutual Water Co. diverts 50 ft (15 m) downstream. Diversion was added to flow at supplementary gage to obtain daily discharge for the period Oct. 1, 1972, to Apr. 16, 1973. Monthly discharge is combined with flow from infiltration line that bypasses station. No regulation above station. Water is diverted out of basin about 15 mi (24 km) upstream to powerplants in San Geronio River basin and then to an area north of Banning for irrigation. One small diversion for domestic use and one for irrigation are made 2 to 3 mi (3.2 to 4.8 km) upstream. Records of sediment discharge for the current year are published in Part 2 of this report.

COOPERATION.--Records of bypass in infiltration line furnished by White Water Mutual Water Co.; records of diversion, 15 mi (24 km) upstream, furnished by Southern California Edison Co.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	10	15	13	13	16	13	9.2	9.8	7.8	7.7	7.8
2	12	10	15	13	13	28	35	8.7	9.9	7.4	13	7.8
3	12	10	15	12	13	17	18	8.7	9.9	7.0	25	7.8
4	12	10	15	13	14	17	15	8.6	9.9	7.0	26	7.8
5	11	11	15	14	14	20	15	8.6	9.9	7.4	23	12
6	11	11	14	13	13	13	14	8.6	9.4	7.4	17	14
7	11	11	13	30	13	18	13	8.6	9.4	7.4	15	14
8	10	11	13	25	13	42	12	9.1	9.4	7.4	14	12
9	10	11	12	20	13	30	12	9.1	8.9	7.4	12	11
10	10	11	12	16	13	26	15	9.1	8.9	7.4	11	12
11	10	11	12	16	12	25	14	9.1	8.9	7.4	11	12
12	11	11	12	17	11	24	13	9.1	9.0	7.0	10	12
13	11	11	12	18	12	23	9.9	8.7	8.5	7.0	9.5	11
14	11	11	12	19	12	23	9.8	9.2	7.7	7.0	9.0	10
15	10	11	12	19	12	23	11	9.2	7.7	7.0	8.7	10
16	10	11	12	19	12	23	9.8	9.7	7.7	6.9	8.4	10
17	10	11	12	20	12	23	9.8	10	7.6	6.5	8.2	10
18	10	18	12	18	12	23	10	10	7.6	6.9	8.1	9.2
19	10	18	12	17	12	22	10	10	8.0	7.3	8.0	8.1
20	10	16	12	18	11	21	10	10	8.4	6.9	7.8	8.1
21	10	15	12	17	12	20	9.8	10	8.4	6.1	7.8	8.0
22	10	15	12	15	12	19	9.8	9.7	8.9	6.5	7.8	8.5
23	10	15	12	16	12	19	9.8	9.8	8.3	6.9	7.8	8.9
24	10	13	11	15	11	19	10	9.8	8.3	6.9	7.4	8.9
25	10	12	11	14	11	19	11	9.8	8.3	6.9	7.8	9.3
26	10	12	11	15	11	19	11	9.3	7.9	6.9	7.8	8.8
27	10	13	12	15	11	18	11	9.3	8.3	7.3	7.8	9.2
28	10	14	12	14	11	18	9.2	9.3	8.3	7.3	7.8	9.7
29	10	15	11	14	-----	16	8.7	9.8	8.2	7.7	7.8	9.1
30	10	15	10	14	-----	14	9.2	9.8	8.2	7.7	7.8	8.1
31	10	-----	11	13	-----	14	-----	9.8	-----	7.7	7.8	-----
TOTAL	324	374	384	512	341	652	368.8	289.7	259.6	221.4	337.8	295.1
MEAN	10.5	12.5	12.4	16.5	12.2	21.0	12.3	9.35	8.65	7.14	10.9	9.84
MAX	12	18	15	30	14	42	35	10	9.9	7.8	26	14
MIN	10	10	10	12	11	13	8.7	8.6	7.6	6.1	7.4	7.8
AC-FT	643	742	762	1,020	676	1,290	732	575	515	439	670	585
(a)	713	810	830	1,090	735	1,350	788	640	571	497	711	639
(b)	0	96	103	88	90	138	145	180	124	117	102	94

CAL YR 1973 TOTAL 5,226.5 MEAN 14.3 MAX 60 MIN 5.6 AC-FT 10,370 AC-FT a 11,180
WTR YR 1974 TOTAL 4,359.4 MEAN 11.9 MAX 42 MIN 6.1 AC-FT 8,650 AC-FT a 9,370

PEAK DISCHARGE (BASE, 100 FT³/S).--No peak above base.

a Combined discharge, in acre-feet, of river and infiltration line.

b Discharge, in acre-feet, diverted from basin 15 mi (24 km) upstream.

10256400 SAN GORGONIO RIVER NEAR WHITE WATER, CALIF.

LOCATION.--Lat 33°55'14", long 116°41'45", in NW¼SE¼SW¼ sec.8, T.3 S., R.3 E., Riverside County, on right bank 0.2 mi (0.3 km) south of Interstate Highway 10, and 3.4 mi (5.5 km) west of town of White Water.

DRAINAGE AREA.--154 mi² (399 km²).

PERIOD OF RECORD.--February 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,320 ft (402 m), from topographic map. Prior to Mar. 19, 1968, flood-hydrograph recorder.

AVERAGE DISCHARGE.--8 years, 1.61 ft³/s (0.0456 m³/s), 1,170 acre-ft/yr (1.44 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 252 ft³/s (7.14 m³/s) Jan. 7 (gage height, 2.55 ft or 0.777 m), on basis of slope-conveyance measurement of maximum flow; no flow most of year.
 Period of record: Maximum discharge, 7,250 ft³/s (205 m³/s) Jan. 25, 1969 (gage height, 6.0 ft or 1.83 m, from floodmarks), on basis of slope-area measurement of maximum flow; no flow most of each year.
 Flood of Nov. 23, 1965, reached a stage of 6.10 ft (1.859 m), from floodmarks (discharge, 4,500 ft³/s or 127 m³/s on basis of slope-area measurement).

REMARKS.--Records fair. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0								
2				0								
3				0								
4				0								
5				0								
6				0								
7				9.8								
8				2.7								
9				0								
10				0								
11				0								
12				0								
13				0								
14				0								
15				0								
16				0								
17				0								
18				0								
19				0								
20				0								
21				0								
22				0								
23				0								
24				0								
25				0								
26				0								
27				0								
28				0								
29				0	-----							
30				0	-----							
31		-----		0	-----		-----		-----			-----
TOTAL	0	0	0	12.5	0	0	0	0	0	0	0	0
MEAN	0	0	0	.40	0	0	0	0	0	0	0	0
MAX	0	0	0	9.8	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	25	0	0	0	0	0	0	0	0
CAL YR 1973	TOTAL 20.99		MEAN .058	MAX 9.5	MIN 0	AC-FT 42						
WTR YR 1974	TOTAL 12.50		MEAN .034	MAX 9.8	MIN 0	AC-FT 25						

PEAK DISCHARGE (BASE, 50 FT³/S).--Jan. 7 (2130) 252 ft³/s (2.55 ft).

10256500 SNOW CREEK NEAR WHITE WATER, CALIF.

LOCATION.--Lat 33°52'14", long 116°40'49", in SE¼NW¼NW¼ sec.33, T.3 S., R.3 E., Riverside County, on left bank 300 ft (91 m) upstream from Southern Pacific Railroad diversion dam, 300 ft (91 m) downstream from East Fork, 2.5 mi (4.0 km) upstream from mouth, and 4.4 mi (7.1 km) southwest of White Water.

DRAINAGE AREA.--10.8 mi² (28.0 km²).

PERIOD OF RECORD.--July to December 1921, May 1922 to February 1927, December 1927 to September 1931, October 1959 to current year. Yearly discharge only for 1930, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 2,000 ft (610 m), from topographic map. Prior to September 1931, at various sites within 500 ft (152 m) of present site at different datums. September 1931 to Oct. 6, 1970, at site 250 ft (76 m) downstream at datum 15.9 ft (4.85 m) lower.

AVERAGE DISCHARGE.--22 years (1922-26, 1928-31, 1959-74), 8.27 ft³/s (0.234 m³/s), 5,990 acre-ft/yr (7.39 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 176 ft³/s (4.98 m³/s) Mar. 2 (gage height, 18.23 ft or 5.557 m); minimum daily, 2.4 ft³/s (0.068 m³/s) Sept. 18-23, 26, 29.

Period of record: Maximum discharge, 13,000 ft³/s (368 m³/s) Jan. 25, 1969 (gage height, 27.4 ft or 8.352 m, from floodmarks, present datum), from rating curve extended above 55 ft³/s (1.56 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 2.1 ft³/s (0.059 m³/s) June 23-27, Sept. 5-11, 1961.

REMARKS.--Records good. No regulation or diversion above station. Palm Springs Water Co. diverts 50 ft (15 m) downstream, generally taking the entire base flow.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	3.4	4.0	4.5	5.7	5.9	8.4	5.9	4.7	3.6	4.0	3.0
2	3.6	3.6	4.7	4.5	5.5	6.4	2.4	5.9	4.7	3.4	3.8	3.0
3	3.6	3.6	4.5	4.0	5.3	2.2	1.5	5.9	5.0	3.0	3.8	3.0
4	3.6	3.8	4.2	4.2	5.2	1.3	1.1	6.2	4.7	3.2	6.5	3.2
5	3.6	3.6	4.0	5.3	5.0	1.1	1.0	6.2	4.5	3.0	1.1	3.0
6	3.6	3.6	4.0	5.0	5.0	9.4	9.4	5.9	4.7	3.2	5.0	3.0
7	3.6	3.6	3.9	9.4	5.0	9.4	9.0	5.9	4.5	3.2	4.0	3.0
8	3.6	3.6	3.8	1.6	5.0	1.6	9.0	5.9	4.7	3.4	3.5	3.0
9	3.8	3.6	3.8	9.8	5.0	1.1	9.0	6.5	4.7	3.6	3.2	3.0
10	3.8	3.6	3.8	8.6	4.7	1.0	9.0	6.5	4.7	3.6	3.2	2.8
11	3.8	3.8	3.8	7.8	4.7	9.4	8.2	6.5	4.6	3.6	3.2	2.8
12	3.8	4.0	4.0	8.2	4.7	9.4	7.8	6.5	4.5	3.2	3.2	2.8
13	3.6	4.0	4.0	1.2	4.7	9.0	7.8	6.5	4.5	3.6	3.2	2.8
14	3.4	4.2	4.2	1.1	4.7	9.0	7.4	6.5	4.5	3.2	3.2	2.8
15	3.4	4.5	4.2	1.1	4.5	9.0	7.1	6.2	4.5	3.6	3.2	2.8
16	3.4	4.5	4.2	1.2	4.5	9.8	6.5	5.6	4.5	3.6	3.2	2.6
17	3.4	4.5	4.0	3.0	4.7	1.1	6.8	5.3	4.5	3.6	3.2	2.6
18	3.4	8.8	4.0	1.8	4.7	1.2	6.8	5.0	4.5	3.6	3.2	2.4
19	3.4	4.5	3.8	1.6	4.5	1.2	6.5	5.0	4.2	3.6	3.2	2.4
20	3.6	3.6	3.8	1.9	4.5	1.1	6.5	5.3	4.2	3.8	3.2	2.4
21	3.6	3.4	3.8	2.2	4.5	1.1	6.5	5.0	4.2	3.8	3.2	2.4
22	3.8	3.4	3.8	1.3	4.5	9.4	6.2	5.0	4.0	4.7	3.0	2.4
23	3.6	3.8	3.8	9.8	4.5	8.6	6.2	5.3	4.0	5.0	3.0	2.4
24	3.8	3.4	3.4	8.2	4.5	8.1	6.2	5.3	4.0	4.7	3.0	2.6
25	3.8	3.4	3.6	7.4	4.5	7.8	6.2	5.3	4.0	4.0	3.0	2.8
26	3.8	3.4	3.6	7.0	4.5	7.4	6.2	5.3	3.8	4.0	3.0	2.4
27	3.6	3.6	3.6	6.7	4.5	7.4	5.9	5.0	3.8	4.0	3.0	2.6
28	3.6	3.4	3.6	6.5	4.7	7.1	5.9	5.0	3.8	4.0	3.0	2.6
29	3.6	3.4	3.6	6.3	-----	7.6	5.9	5.0	3.6	3.8	3.0	2.4
30	3.6	3.2	3.6	6.1	-----	8.0	5.9	5.0	3.6	3.6	3.0	2.6
31	3.4	-----	3.6	5.9	-----	8.8	-----	4.7	-----	3.6	3.0	-----
TOTAL	111.8	116.8	120.7	315.2	133.8	364.5	246.3	175.1	130.2	113.8	113.2	81.6
MEAN	3.61	3.89	3.89	10.2	4.78	11.8	8.21	5.65	4.34	3.67	3.65	2.72
MAX	3.8	8.8	4.7	3.0	5.7	6.4	2.4	6.5	5.0	5.0	1.1	3.2
MIN	3.4	3.2	3.4	4.0	4.5	5.9	5.9	4.7	3.6	3.0	3.0	2.4
AC-FT	222	232	239	625	265	723	489	347	258	226	225	162

CAL YR 1973 TOTAL 2,716.7 MEAN 7.44 MAX 26 MIN 3.2 AC-FT 5,390
WTR YR 1974 TOTAL 2,023.0 MEAN 5.54 MAX 64 MIN 2.4 AC-FT 4,010

PEAK DISCHARGE (BASE, 50 FT³/S).--Mar. 2 (1400) 176 ft³/s (18.23 ft).

10257600 MISSION CREEK NEAR DESERT HOT SPRINGS, CALIF.

LOCATION.--Lat 34°00'40", long 116°37'38", in NE¼SW¼ sec.12, T.2 S., R.3 E., Riverside County, in Mission Creek Indian Reservation, 0.6 mi (1.0 km) downstream from West Fork, and 6.8 mi (10.9 km) northwest of Desert Hot Springs.

DRAINAGE AREA.--35.7 mi² (92.5 km²).

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder with rain-gage attachment. Altitude of gage is 2,400 ft (732 m), from topographic map.

AVERAGE DISCHARGE.--7 years, 2.06 ft³/s (0.0583 m³/s), 1,490 acre-ft/yr (18.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1.0 ft³/s (0.028 m³/s) Mar. 8 (gage height, 2.22 ft or 0.677 m); no flow for several months.

Period of record: Maximum discharge, 1,660 ft³/s (47.0 m³/s) Jan. 25, 1969 (gage height, 6.40 ft or 1.951 m) on basis of slope-area measurement of maximum flow; no flow for long periods in most years.

REMARKS.--Records good. Slight regulation of low flow by two small dams with a combined capacity of about 3 acre-ft (3,700 m³), 2 mi (3 km) above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0		0	.09	.05				
2				0		0	.16	.08				
3				0		0	.16	.06				
4				0		0	.20	.05				
5				0		0	.18	.05				
6				0		0	.15	.06				
7				.10		0	.12	.02				
8				.02		.63	.12	.01				
9				0		.45	.26	.01				
10				0		.23	.24	.03				
11				0		.12	.16	.03				
12				0		.08	.13	.02				
13				0		.04	.14	.03				
14				0		.04	.19	.04				
15				0		.01	.15	.04				
16				0		0	.12	.05				
17				0		0	.13	.05				
18				0		0	.14	.12				
19				0		.02	.16	.12				
20				0		0	.18	.10				
21				0		.04	.20	.08				
22				0		.04	.20	.06				
23				0		.05	.22	.03				
24				0		.04	.22	.05				
25				0		.05	.20	.02				
26				0		.04	.18	0				
27				0		.06	.11	0				
28				0		.07	.08	0				
29				0	-----	.04	.09	0				
30				0	-----	.06	.08	0				
31		-----		0	-----	.10	-----	0	-----			-----
TOTAL	0	0	0	.12	0	2.21	4.76	1.26	0	0	0	0
MEAN	0	0	0	.004	0	.071	.16	.041	0	0	0	0
MAX	0	0	0	.10	0	.63	.26	.12	0	0	0	0
MIN	0	0	0	0	0	0	.08	0	0	0	0	0
AC-FT	0	0	0	.2	0	4.4	9.4	2.5	0	0	0	0
(a)	0	.70	0	1.30	0	1.60	.20	0	0	0	0	0

CAL YR 1973 TOTAL 54.63 MEAN .15 MAX 1.0 MIN 0 AC-FT 108
WTR YR 1974 TOTAL 8.35 MEAN .023 MAX .63 MIN 0 AC-FT 17

PEAK DISCHARGE (BASE, 50 FT³/S).--No peak above base.

a Precipitation, in inches.

SALTON SEA BASIN

10258000 TAHQUITZ CREEK NEAR PALM SPRINGS, CALIF.

LOCATION.--Lat 33°48'18", long 116°33'30", in NE¼SW¼SW¼ sec.22, T.4 S., R.4 E., Riverside County, on left bank 2.2 mi (3.5 km) southwest of Palm Springs, and 7 mi (11 km) upstream from mouth.

DRAINAGE AREA.--16.8 mi² (43.5 km²).

PERIOD OF RECORD.--October 1947 to current year.

GAGE.--Water-stage recorder. Datum of gage is 762.5 ft (232.41 m) above mean sea level (levels by Riverside County Flood Control District). Prior to Aug, 25, 1970, at datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE.--27 years, 3.83 ft³/s (0.1085 m³/s), 2,770 acre-ft/yr (3.42 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 18 ft³/s (0.51 m³/s) Mar. 2 (gage height, 4.60 ft or 1.402 m); maximum gage height, 4.80 ft (1.463 m) Apr. 2; no flow Oct. 1 to Nov. 17, July 6 to Sept. 30.

Period of record: Maximum discharge, 2,900 ft³/s (82.1 m³/s) Nov. 22, 1965, Jan. 25, 1969 (gage height, 12.34 ft or 3.761 m, present datum), from rating curve extended above 80 ft³/s (2.27 m³/s) on basis of slope-area measurements at gage heights 8.45 ft (2.576 m) and 10.34 ft (3.152 m); no flow for parts of each year.

REMARKS.--Records poor. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.18	.52	1.2	5.2	4.4	3.5	1.5	.08		
2		0	.18	.52	1.2	10	9.1	3.4	1.4	.05		
3		0	.18	.52	1.2	7.3	8.2	3.2	1.3	.03		
4		0	.18	.62	1.2	4.5	6.4	3.2	1.2	.02		
5		0	.18	.74	1.2	4.0	5.7	3.2	1.0	.01		
6		0	.18	.52	1.2	3.6	5.6	3.2	.92	0		
7		0	.18	3.0	1.2	3.4	5.4	3.1	.80	0		
8		0	.18	4.8	1.2	4.4	5.4	3.0	.76	0		
9		0	.20	.83	1.2	3.8	5.5	3.0	.72	0		
10		0	.20	.64	1.5	3.6	5.1	3.0	.63	0		
11		0	.18	.78	1.5	3.4	4.7	3.0	.62	0		
12		0	.20	.54	1.5	3.3	4.6	3.0	.60	0		
13		0	.22	.54	1.5	3.4	4.4	3.0	.55	0		
14		0	.21	.54	1.6	3.4	4.2	3.0	.50	0		
15		0	.22	.54	1.5	3.6	4.3	2.9	.45	0		
16		0	.25	.54	1.4	3.8	4.4	2.8	.43	0		
17		0	.29	.54	1.6	3.9	4.2	2.6	.38	0		
18		.30	.32	1.6	1.8	4.4	4.2	2.3	.35	0		
19		.20	.34	1.2	1.8	4.4	4.2	2.2	.31	0		
20		.17	.34	1.1	2.1	4.4	4.1	2.3	.28	0		
21		.16	.38	1.8	2.2	4.3	3.8	2.2	.25	0		
22		.15	.34	1.5	1.9	4.2	3.9	2.0	.23	0		
23		.34	.36	1.3	2.2	4.1	4.0	2.0	.21	0		
24		.24	.38	1.3	2.6	3.9	3.9	2.0	.19	0		
25		.20	.40	1.3	2.8	3.9	3.4	1.8	.17	0		
26		.19	.38	1.3	3.4	3.7	3.5	1.8	.15	0		
27		.19	.38	1.3	3.7	3.8	3.6	1.8	.13	0		
28		.19	.38	1.2	3.8	3.7	3.6	1.7	.12	0		
29		.19	.40	1.2	-----	4.2	3.5	1.7	.11	0		
30		.18	.46	1.2	-----	4.4	3.8	1.6	.10	0		
31		-----	.50	1.2	-----	4.5	-----	1.5	-----	0		-----
TOTAL	0	2.70	8.77	35.23	51.2	132.5	141.1	79.0	16.36	.19	0	0
MEAN	0	.090	.28	1.14	1.83	4.27	4.70	2.55	.55	.006	0	0
MAX	0	.34	.50	4.8	3.8	10	9.1	3.5	1.5	.08	0	0
MIN	0	0	.18	.52	1.2	3.3	3.4	1.5	.10	0	0	0
AC-FT	0	5.4	17	70	102	263	280	157	32	.4	0	0

CAL YR 1973 TOTAL 1,423.29 MEAN 3.90 MAX 27 MIN 0 AC-FT 2,820

WTR YR 1974 TOTAL 467.05 MEAN 1.28 MAX 10 MIN 0 AC-FT 926

PEAK DISCHARGE (BASE, 50 FT³/S).--No peak above base.

10258500 PALM CANYON CREEK NEAR PALM SPRINGS, CALIF.

LOCATION.--Lat 33°44'42", long 116°32'05", in NE¼SW¼SE¼ sec.11, T.5 S., R.4 E., Riverside County, on right bank 0.8 mi (1.3 km) upstream from Murray Canyon Creek, and 6 mi (10 km) south of Palm Springs.

DRAINAGE AREA.--93.3 mi² (241.6 km²).

PERIOD OF RECORD.--January 1930 to January 1942, October 1947 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 700 ft (213 m), from topographic map. Prior to Jan. 14, 1942, at datum 0.2 ft (0.06 m) higher.

AVERAGE DISCHARGE.--38 years (1930-41, 1947-74), 3.33 ft³/s (0.0943 m³/s), 2,410 acre-ft/yr (2.97 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 43 ft³/s (1.22 m³/s) Jan. 8 (gage height, 2.10 ft or 0.640 m); no flow for several months.

Period of record: Maximum discharge, 3,850 ft³/s (109 m³/s) Feb. 6, 1937 (gage height, 5.80 ft or 1.768 m, present datum), from rating curve extended above 120 ft³/s (3.40 m³/s) on basis of velocity-area measurement of maximum flow; no flow for several months in most years.

REMARKS.--Records good. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0		0	0					
2				0		0	1.4					
3				0		.12	.93					
4				0		.17	.48					
5				0		.13	.40					
6				0		.13	.27					
7				.57		.13	.17					
8				15		.57	.13					
9				.40		.40	.10					
10				0		.33	.10					
11				0		.33	.06					
12				0		.27	.01					
13				0		.27	0					
14				0		.22	0					
15				0		.22	0					
16				0		.22	0					
17				0		.22	0					
18				0		.22	0					
19				0		.22	0					
20				0		.17	0					
21				.06		.17	0					
22				.22		.13	0					
23				.13		.06	0					
24				.02		.03	0					
25				.01		.01	0					
26				0		0	0					
27				0		0	0					
28				0		0	0					
29				0	-----	0	0					
30				0	-----	0	0					
31	-----			0	-----	0	-----		-----			-----
TOTAL	0	0	0	16.41	0	4.74	4.05	0	0	0	0	0
MEAN	0	0	0	.53	0	.15	.14	0	0	0	0	0
MAX	0	0	0	15	0	.57	1.4	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	33	0	9.4	8.0	0	0	0	0	0

CAL YR 1973 TOTAL 448.51 MEAN 1.23 MAX 64 MIN 0 AC-FT 890
WTR YR 1974 TOTAL 25.20 MEAN .06 MAX 15 MIN 0 AC-FT 50

PEAK DISCHARGE (BASE, 100 FT³/S).--No peak above base.

SALTON SEA BASIN

10259000 ANDREAS CREEK NEAR PALM SPRINGS, CALIF.

LOCATION.--Lat 33°45'36", long 116°32'57", in NW¼SE¼SE¼ sec.3, T.5 S., R.4 E., Riverside County, on left bank at Bureau of Indian Affairs diversion dam, 1.1 mi (1.8 km) above mouth, and 5.1 mi (8.2 km) south of Palm Springs.

DRAINAGE AREA.--8.61 mi² (22.30 km²).

PERIOD OF RECORD.--October 1948 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 800 ft (244 m), from topographic map. Prior to Mar. 25, 1949, reference point at same site at different datum.

AVERAGE DISCHARGE.--26 years, 2.13 ft³/s (0.0603 m³/s), 1,540 acre-ft/yr (1.90 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 43 ft³/s (1.22 m³/s) Mar. 2 (gage height, 1.97 ft or 0.600 m); minimum daily, 0.16 ft³/s (0.005 m³/s) July 5-7, Aug. 25-27, 31.

Period of record: Maximum discharge, 1,960 ft³/s (55.5 m³/s) Aug. 31, 1954 (gage height, 7.11 ft or 2.167 m), from rating curve extended above 80 ft³/s (2.27 m³/s) on basis of slope-area measurement of maximum flow; no flow at times in some years.

REMARKS.--Records fair. No regulation above station. One small diversion for domestic use about 1 mi (2 km) above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.35	.82	1.0	3.6	2.1	6.1	2.4	1.0	.64	.48	.62	.35
2	.48	.82	1.0	5.2	2.1	25	18	.82	.48	.48	.60	.48
3	.48	1.0	1.0	5.2	1.8	18	5.2	1.0	.64	.35	.56	.48
4	.48	.82	1.3	11	2.1	13	2.8	1.3	.64	.35	.54	.48
5	.48	1.0	1.3	17	2.1	12	2.8	1.3	.64	.16	.53	.48
6	.35	1.0	1.3	14	2.4	12	2.4	1.3	.64	.16	.52	.48
7	.35	.82	1.3	22	2.1	9.1	2.1	1.0	.64	.16	.50	.35
8	.64	.82	1.3	19	2.1	4.8	2.1	1.0	.64	.25	.50	.35
9	.64	1.0	1.3	7.5	2.1	4.4	2.8	1.0	.64	.25	.48	.25
10	.82	.82	1.3	2.1	2.1	4.4	5.6	1.0	.64	.25	.48	.25
11	.64	.82	1.0	2.1	2.1	4.4	5.6	1.0	.64	.48	.48	.25
12	.64	.82	1.0	2.1	2.1	4.4	7.0	.82	.64	.48	.48	.25
13	.48	.82	1.3	2.1	2.1	4.0	4.4	1.0	.64	.35	.48	.25
14	.35	.82	1.0	2.1	2.4	3.6	1.5	.82	.64	.48	.48	.25
15	.48	.82	1.0	2.1	2.4	3.2	1.3	1.0	.64	.64	.35	.35
16	.48	1.0	1.0	2.1	2.4	3.2	1.5	1.0	.48	.48	.48	.25
17	.48	.82	1.0	2.8	3.6	3.2	1.5	1.0	.64	.35	.35	.35
18	.48	1.0	1.3	2.4	4.0	2.8	1.5	1.0	.82	.35	.35	.35
19	.48	1.0	1.3	2.1	3.6	2.8	1.5	1.0	1.0	.35	.48	.48
20	.48	1.0	1.3	2.4	4.0	2.8	1.5	.82	1.3	.82	.35	.48
21	.48	1.0	1.3	2.8	4.4	2.8	1.5	.64	1.3	.48	.35	.48
22	.48	1.0	.82	2.4	4.8	2.8	1.5	.64	1.0	.48	.35	.48
23	.48	1.0	.64	2.1	4.4	2.8	1.3	.64	1.3	.48	.25	.48
24	.48	1.0	.64	2.1	5.2	2.8	1.3	.64	1.3	.50	.25	.48
25	.64	1.0	1.3	2.1	5.6	2.8	1.3	.48	1.3	.53	.16	.64
26	.64	1.0	1.3	2.1	5.2	2.8	1.3	.48	1.3	.54	.16	.64
27	.82	1.0	1.3	2.1	5.2	2.8	1.3	.48	1.0	.56	.16	.60
28	.64	1.3	1.3	2.1	5.2	2.8	1.3	.48	.82	.57	.25	.56
29	.64	1.3	1.3	2.1	-----	2.8	1.3	.48	.64	.58	.25	.54
30	.82	1.3	1.3	2.1	-----	2.8	1.0	.48	.48	.60	.25	.54
31	.82	-----	1.3	2.1	-----	2.4	-----	.73	-----	.62	.16	-----
TOTAL	17.00	28.74	35.80	153.0	89.7	173.6	86.6	26.35	24.12	14.26	12.07	12.65
MEAN	.55	.96	1.15	4.94	3.20	5.60	2.89	.85	.40	.46	.39	.42
MAX	.82	1.3	1.3	22	5.6	25	18	1.3	1.3	1.0	.62	.64
MIN	.35	.82	.64	2.1	1.8	2.4	1.0	.48	.48	.16	.16	.25
AC-FT	34	57	71	303	178	344	172	52	48	28	24	25
CAL YR 1973	TOTAL 622.87 MEAN 1.71 MAX 7.6 MIN .35 AC-FT 1,240											
WTR YR 1974	TOTAL 673.89 MEAN 1.45 MAX 25 MIN .16 AC-FT 1,340											

PEAK DISCHARGE (BASE, 30 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
1-7	1930	1.90	34	4-2	0845	1.96	41
3-2	1245	1.97	43				

SALTON SEA BASIN

61

10259200 DEEP CREEK NEAR PALM DESERT, CALIF.

LOCATION.--Lat 33°37'52", long 116°23'29", in SE¼NE¼SE¼ sec.19, T.6 S., R.6 E., Riverside County, on left bank 500 ft (152 m) downstream from unnamed tributary, and 6.3 mi (10.1 km) south of Palm Desert.

DRAINAGE AREA.--30.6 mi² (79.3 km²).

PERIOD OF RECORD.--May 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,440 ft (439 m), from topographic map.

AVERAGE DISCHARGE.--12 years, 0.52 ft³/s (0.015 m³/s), 375 acre-ft/yr (462,375 m³/yr).

EXTREMES.--Current year: Maximum discharge, 2.2 ft³/s (0.062 m³/s) Jan. 7 (gage height, 1.75 ft or 0.533 m), from rating curve extended above 3.3 ft³/s (0.09 m³/s) on basis of slope-area measurements at gage heights 2.68 ft (0.817 m) and 5.15 ft (1.570 m); no flow part of year.

Period of record: Maximum discharge, 1,300 ft³/s (36.8 m³/s) Nov. 23, 1965 (gage height, 5.15 ft or 1.570 m in gage well, 6.15 ft or 1.875 m, from profile of floodmarks), from rating curve extended above 3.3 ft³/s (0.093 m³/s) on basis of slope-area measurements at gage heights 2.68 ft (0.817 m) and 5.15 ft (1.570 m); no flow for much of each year.

REMARKS.--Records good. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	.15	.07	.11	.03	.01			
2				0	.13	.07	.13	.03	.01			
3				0	.13	.11	.11	.03	.01			
4				0	.15	.11	.11	.03	0			
5				.01	.15	.07	.11	.03	0			
6				.01	.15	.07	.07	.03	0			
7				.44	.13	.11	.07	.03	0			
8				.40	.13	.21	.07	.03	0			
9				.09	.13	.13	.07	.03	0			
10				.06	.13	.11	.07	.03	0			
11				.04	.13	.11	.07	.03	0			
12				.03	.11	.11	.07	.03	0			
13				.02	.13	.11	.07	.03	0			
14				.02	.13	.11	.07	.03	0			
15				.02	.11	.11	.07	.03	0			
16				.01	.11	.11	.07	.03	0			
17				.01	.11	.11	.07	.03	0			
18				.01	.11	.11	.07	.03	0			
19				.01	.11	.11	.07	.03	0			
20				.01	.11	.15	.05	.03	0			
21				.42	.11	.17	.05	.03	0			
22				.30	.11	.17	.05	.01	0			
23				.21	.11	.17	.05	.01	0			
24				.17	.11	.15	.03	.01	0			
25				.15	.07	.15	.03	.01	0			
26				.15	.07	.15	.03	.01	0			
27				.15	.07	.13	.03	.01	0			
28				.15	-----	.13	.03	.01	0			
29				.15	-----	.11	.03	.01	0			
30				.15	-----	.11	-----	.01	-----			
31		-----		.15	-----	.11	-----	.01	-----			-----
TOTAL	0	0	0	3.24	3.26	3.77	1.72	.73	.03	0	0	0
MEAN	0	0	0	.10	.12	.12	.064	.024	.001	0	0	0
MAX	0	0	0	.44	.15	.21	.13	.03	.01	0	0	0
MIN	0	0	0	0	.07	.07	.03	.01	0	0	0	0
AC-FT	0	0	0	6.4	6.5	7.5	3.8	1.4	.06	0	0	0

CAL YR 1973 TOTAL 43.29 MEAN .26 MAX 0.8 MIN 0 AC-FT 155
 WTR YR 1974 TOTAL 12.95 MEAN .036 MAX .44 MIN 0 AC-FT 20

PEAK DISCHARGE (BASE, 20 FT³/S).--No peak above base.

SALTON SEA BASIN

10259300 WHITEWATER RIVER AT INDIO, CALIF.

LOCATION.--Lat 33°44'06", long 116°14'39", in NW¼NE¼SW¼ sec.15, T.5 S., R.7 E., Riverside County, at center bridge pier on Interstate Highway 10, 2 mi (3 km) northwest of Indio.

DRAINAGE AREA.--1,073 mi² (2,779 km²).

PERIOD OF RECORD.--March 1966 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 5 ft (2 m), from topographic map.

AVERAGE DISCHARGE.--8 years, 2.89 ft³/s (0.0818 m³/s), 2,090 acre-ft/yr (2.58 hm³/yr).

EXTREMES.--Current year: No flow during year.

Period of record: Maximum discharge, 11,400 ft³/s (323 m³/s) Jan. 25, 1969 (gage height, 14.41 ft or 4.392 m), from rating curve extended above 1,300 ft³/s (36.8 m³/s) on basis of slope-area measurement at gage height 15.3 ft (4.663 m); no flow all or most of each year.

Flood of Mar. 2 or 3, 1938, 29,000 ft³/s (821 m³/s), result of slope-area measurement at site 4.5 mi (7.2 km) upstream.

Flood of Nov. 22, 1965, reached a stage of 15.3 ft (4.663 m), from floodmarks (discharge, 14,100 ft³/s or 399 m³/s, on basis of slope-area measurement of peak flow).

REMARKS.--No flow since May 11, 1972. No regulation above station. Water diverted from tributary streams for municipal supply in vicinity of Palm Springs. At times water is released to river at Coachella Canal crossing, 0.8 mi (1.3 km) upstream.

REVISIONS (WATER YEARS).--WRD Calif. 1972: 1971.

10259540 WHITEWATER RIVER NEAR MECCA, CALIF.

LOCATION.--Lat 33°31'29", long 116°04'36", in NW¼NW¼NW¼ sec.32, T.7 S., R.9 E., Riverside County, on left bank 1.6 mi (2.6 km) upstream from mouth, and 3.3 mi (5.3 km) south of Mecca.

DRAINAGE AREA.--1,494 mi² (3,870 km²).

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 221.00 ft (67.36 m) below mean sea level (levels by Coachella County Water District). Oct. 1, 1960, to Mar. 22, 1967, at site 1.3 mi (2.1 km) downstream and Mar. 23, 1967, to July 22, 1970, at site 0.7 mi (1.1 km) downstream at different datums.

EXTREMES.--Period of record: Maximum daily discharge, 2,500 ft³/s (70.8 m³/s), estimated, Jan. 25, 1969; minimum daily, 37 ft³/s (1.05 m³/s) Nov. 25-29, 1960.

REMARKS.--Records good. Most of the flow represents seepage and return flow from irrigated areas.

COOPERATION.--Fifty-two discharge measurements furnished by Coachella Valley County Water District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	135	100	120	109	118	156	146	143	132	124	141	140
2	138	108	116	108	120	154	145	145	133	121	143	130
3	138	115	120	106	121	143	146	140	130	112	161	127
4	140	130	124	113	124	133	141	143	140	118	145	130
5	137	135	120	138	129	140	139	156	137	121	138	138
6	135	146	114	135	129	129	135	145	140	121	135	143
7	132	137	116	140	129	137	130	140	145	122	140	140
8	132	145	116	199	135	143	130	140	140	115	137	122
9	130	143	114	137	143	141	130	137	130	111	143	129
10	135	138	116	114	145	137	140	149	122	118	145	124
11	137	135	112	130	145	130	150	148	122	120	141	127
12	127	137	111	141	133	130	154	140	126	121	129	127
13	118	132	114	143	127	126	154	127	130	115	126	124
14	115	135	104	145	133	126	151	132	130	116	126	115
15	112	135	101	140	133	133	140	130	130	118	133	116
16	112	130	101	129	146	135	140	135	130	116	133	116
17	111	124	104	132	153	138	133	133	120	108	132	130
18	106	114	109	129	140	140	129	137	120	108	129	165
19	112	108	112	124	141	141	132	137	130	108	120	156
20	118	105	112	126	151	135	135	133	124	109	116	143
21	116	98	114	138	153	138	132	135	126	114	132	143
22	122	98	115	124	151	141	129	135	118	114	137	141
23	135	108	118	127	162	146	129	135	118	95	145	122
24	132	101	122	133	161	143	129	127	109	97	143	137
25	114	108	122	126	159	137	135	135	122	105	130	138
26	109	105	126	121	164	133	135	133	122	111	121	145
27	118	101	116	114	157	126	135	132	126	127	114	151
28	129	106	105	109	154	124	141	126	126	130	116	145
29	137	116	104	108	-----	137	137	121	120	133	129	146
30	116	118	106	112	-----	141	138	133	127	126	132	132
31	105	-----	104	114	-----	143	-----	133	-----	127	137	-----
TOTAL	3,853	3,611	3,508	3,974	3,961	4,256	4,140	4,235	3,843	3,601	4,149	4,042
MEAN	124	120	113	128	141	137	138	137	128	116	134	135
MAX	140	146	126	199	164	156	154	156	145	133	161	165
MIN	105	98	101	106	118	124	129	121	109	95	114	115
AC-FT	7,640	7,160	6,960	7,880	7,860	8,440	8,210	8,400	7,620	7,140	8,230	8,020

CAL YR 1973 TOTAL 48,802 MEAN 134 MAX 170 MIN 98 AC-FT 96,800
WTR YR 1974 TOTAL 47,173 MEAN 129 MAX 199 MIN 95 AC-FT 93,570

SALTON SEA BASIN

10259920 WASTEWAY NO. 1 NEAR MECCA, CALIF.

LOCATION.--Lat 33°31'40", long 115°58'23", in NW¼SW¼SW¼ sec.29, T.7 S., R.10 E., Riverside County, on right bank of channel, 1,000 ft (300 m) upstream from mouth, 2,250 ft (686 m) downstream from State Highway 111, and 6.6 mi (10.6 km) southeast of Mecca.

PERIOD OF RECORD.--February 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 220 ft (67.1 m) below mean sea level (from topographic map).

EXTREMES.--Period of record: Maximum daily discharge, 348 ft³/s (9.9 m³/s) Mar. 7, 1971; minimum daily, 2.0 ft³/s (0.06 m³/s) Dec. 26, 27, 1969, Mar. 8, 1970, Mar. 14-16, 1974.

REMARKS.--Records poor. Discharge represents seepage and return flows from irrigated areas. At times water is wasted from Coachella Canal.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	3.8	3.2	4.4	3.0	3.2	4.1	4.8	5.2	5.5	6.7	19
2	5.2	4.4	3.0	5.5	3.0	3.2	3.5	5.5	5.5	5.2	7.2	25
3	4.4	4.8	2.7	5.9	3.0	3.8	3.5	8.6	5.9	5.2	6.3	5.5
4	4.4	18	2.7	11	3.0	4.4	3.5	10	7.2	5.2	78	4.1
5	4.1	3.0	2.7	16	3.0	4.8	3.5	8.2	5.9	5.2	69	4.4
6	3.8	3.0	2.7	22	2.7	5.2	3.5	8.6	5.9	5.2	5.5	4.8
7	3.4	3.0	3.0	123	2.7	5.5	3.5	7.6	4.8	29	5.9	5.2
8	3.5	3.0	3.0	83	2.7	5.9	3.5	7.2	4.8	78	5.9	5.2
9	8.1	3.0	3.0	42	2.7	4.4	3.5	6.7	171	5.5	5.5	5.9
10	28	3.0	3.0	16	188	3.8	3.5	5.9	117	4.8	5.9	5.5
11	3.0	14	3.2	12	156	3.2	3.5	4.8	4.4	5.5	6.7	5.5
12	3.0	29	3.2	12	79	2.7	3.5	30	4.4	5.9	32	6.3
13	3.0	3.2	3.2	9.2	95	2.4	3.5	36	4.4	24	6.3	6.3
14	29	3.2	3.2	4.8	38	2.0	3.5	2.7	4.4	56	6.3	62
15	12	3.2	3.2	11	3.0	2.0	3.5	2.7	4.1	38	5.9	92
16	3.5	3.0	3.2	7.8	3.0	2.0	39	3.2	4.1	5.9	5.5	20
17	3.5	3.2	3.2	3.0	3.2	2.2	3.2	3.8	4.1	5.5	79	3.8
18	3.5	3.2	3.2	3.0	7.7	2.7	3.5	4.4	4.1	5.5	45	3.8
19	3.5	3.2	3.2	3.0	161	2.7	3.2	5.2	4.4	5.9	23	4.4
20	3.5	3.8	3.2	3.0	39	3.0	3.0	5.5	5.5	6.3	5.2	4.8
21	3.8	3.2	3.2	2.7	70	4.1	3.2	5.9	5.5	8.6	4.4	5.9
22	4.4	3.0	3.5	2.4	146	4.1	5.5	56	5.5	5.5	5.2	5.9
23	5.2	2.7	3.2	2.4	3.8	4.1	5.5	4.4	5.5	5.5	5.2	5.9
24	4.8	2.7	3.2	2.4	3.8	4.4	4.4	4.1	5.5	5.5	5.9	6.3
25	4.8	2.7	3.5	2.4	3.5	4.1	4.4	4.4	5.2	5.5	5.5	6.3
26	5.2	2.7	3.8	2.4	3.5	3.8	4.4	4.4	5.2	6.7	25	7.6
27	5.2	3.5	3.8	3.0	3.2	3.5	4.4	4.4	5.2	7.6	5.2	6.7
28	5.2	3.8	3.8	3.0	3.2	4.4	4.4	4.4	5.5	8.6	6.3	6.3
29	4.4	3.2	3.8	3.0	-----	4.8	4.4	5.2	5.5	7.2	5.9	5.9
30	3.8	3.5	3.8	3.0	-----	4.4	4.4	5.2	5.5	8.2	5.5	5.5
31	3.8	-----	3.5	3.0	-----	4.4	-----	4.8	-----	6.3	6.7	-----
TOTAL	189.3	149.6	100.1	427.3	1,035.7	115.2	150.0	274.6	431.2	382.5	491.6	355.8
MEAN	6.11	4.49	3.23	13.8	37.0	3.72	5.00	8.86	14.4	12.3	15.9	11.9
MAX	29	29	3.8	123	188	5.9	39	56	171	78	79	92
MIN	3.0	2.7	2.7	2.4	2.7	2.0	3.0	2.7	4.1	4.8	4.4	3.8
AC-FT	375	297	199	848	2,050	228	298	545	855	759	975	706

CAL YR 1973 TOTAL 4,085.8 MEAN 11.2 MAX 197 MIN 2.7 AC-FT 8,100

WTR YR 1974 TOTAL 4,102.9 MEAN 11.2 MAX 188 MIN 2.0 AC-FT 8,140

10260500 DEEP CREEK NEAR HESPERIA, CALIF.

LOCATION.--Lat 34°20'28", long 117°13'39", in NW¼NE¼SE¼ sec.18, T.3 N., R.3 W., San Bernardino County, on right bank 0.5 mi (0.8 km) upstream from confluence with West Fork Mojave River, and 7 mi (11 km) southeast of Hesperia.

DRAINAGE AREA.--136 mi² (352 km²).

PERIOD OF RECORD.--October 1904 to September 1922, October 1929 to current year. Monthly discharge only prior to January 1930, published in WSP 1314.

GAGE.--Water-stage recorder. Broad-crested weir since December 1938. Altitude of gage is 3,050 ft (930 m), from topographic map. See WSP 1314 for history of change prior to Dec. 10, 1938.

AVERAGE DISCHARGE.--63 years, 67.1 ft³/s (1.900 m³/s), 48,610 acre-ft/yr (59.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,020 ft³/s (28.9 m³/s) Mar. 2 (gage height, 3.54 ft or 1.079 m); minimum daily, 1.0 ft³/s (0.028 m³/s) July 19, Aug. 28 to Sept. 5.
Period of record: Maximum discharge, 46,600 ft³/s (1,320 m³/s) Mar. 2, 1938, based on slope-area measurement of maximum flow; no flow July 17, 18, 1961.

REMARKS.--Records fair. Slight regulation by Lake Arrowhead, capacity, 48,000 acre-ft (59.2 hm³), used principally for recreation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	3.7	7.7	9.0	33	82	72	27	10	1.9	1.4	1.0
2	2.0	3.7	32	9.5	36	391	135	24	9.9	1.8	1.4	1.0
3	2.2	3.9	20	8.4	34	276	127	24	9.6	1.7	1.5	1.0
4	2.2	4.1	14	14	35	118	86	24	9.0	1.6	1.8	1.0
5	2.2	4.4	12	15	37	90	74	27	8.5	1.5	1.6	1.0
6	2.2	4.7	10	15	35	78	69	28	8.1	1.4	1.7	1.1
7	2.6	5.2	9.6	42	30	82	65	26	7.9	1.3	1.7	1.1
8	2.8	5.2	9.2	135	30	155	66	24	7.5	1.3	1.7	1.1
9	3.0	5.2	8.9	68	27	106	68	23	6.4	1.3	1.7	1.1
10	3.0	5.1	8.4	40	27	106	67	22	6.0	1.4	1.6	1.1
11	3.0	5.1	7.9	30	27	95	65	21	5.6	1.5	1.5	1.1
12	3.0	5.1	7.5	28	27	98	58	19	5.3	1.6	1.4	1.1
13	3.0	5.0	7.4	38	28	106	57	19	5.3	1.6	1.2	1.1
14	3.0	5.2	7.4	37	27	115	56	18	5.1	1.5	1.3	1.1
15	3.0	5.3	7.4	36	27	127	54	18	5.0	1.4	1.2	1.1
16	3.0	5.3	7.4	48	28	134	52	17	4.8	1.4	1.2	1.2
17	3.0	5.6	7.4	126	31	130	50	17	4.6	1.3	1.1	1.3
18	3.0	26	7.2	113	29	134	48	16	4.3	1.3	1.1	1.4
19	3.0	29	7.1	102	28	121	41	17	4.0	1.0	1.1	1.5
20	3.0	15	7.0	109	27	109	40	16	3.8	1.1	1.1	1.8
21	3.1	11	7.1	191	25	115	38	16	3.6	1.2	1.2	1.7
22	3.1	9.6	7.1	102	24	100	35	15	3.4	1.2	1.2	1.7
23	3.2	9.6	7.2	65	24	90	35	15	3.2	1.6	1.3	1.6
24	3.4	9.7	7.2	50	24	86	34	15	3.0	2.2	1.4	1.6
25	3.5	9.3	7.2	43	24	93	32	14	2.9	2.4	1.3	1.7
26	3.6	8.6	7.2	39	25	76	30	14	2.7	1.9	1.1	1.7
27	3.6	7.9	7.9	35	26	74	29	13	2.5	1.7	1.1	1.7
28	3.6	7.5	8.0	32	27	72	27	11	2.3	1.5	1.0	1.7
29	3.6	7.4	8.1	32	-----	88	29	11	2.1	1.4	1.0	1.7
30	4.3	7.4	8.1	32	-----	95	30	11	2.0	1.4	1.0	1.6
31	3.9	-----	8.1	31	-----	83	-----	10	-----	1.3	1.0	-----
TOTAL	93.1	239.8	288.7	1,675.3	802	3,615	1,669	572	158.4	46.7	40.9	39.9
MEAN	3.00	7.99	9.31	54.0	28.6	117	55.6	18.5	5.28	1.51	1.32	1.33
MAX	4.3	29	32	191	37	391	135	28	10	2.4	1.8	1.8
MIN	2.0	3.7	7.0	8.4	24	72	27	10	2.0	1.0	1.0	1.0
AC-FT	185	476	573	3,320	1,590	7,170	3,310	1,130	314	93	81	79

CAL YR 1973 TOTAL 20,275.7 MEAN 55.5 MAX 2,180 MIN 1.7 AC-FT 40,220
WTR YR 1974 TOTAL 9,240.9 MEAN 25.3 MAX 391 MIN 1.0 AC-FT 18,330

PEAK DISCHARGE (BASE, 400 FT³/S).--Mar. 2 (1700) 1,020 ft³/s (3.54 ft).

MOJAVE RIVER BASIN

10261100 MOJAVE RIVER BELOW FORKS RESERVOIR, NEAR HESPERIA, CALIF.

LOCATION.--Lat 34°20'38", long 117°14'15", in SW¼NE¼SW¼ sec.18, T.3 N., R.3 W., San Bernardino County, on left bank of reservoir outlet channel, 6.5 mi (10.5 km) southeast of Hesperia.

DRAINAGE AREA.--211 mi² (546 km²).

PERIOD OF RECORD.--October 1971 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 3,000 ft (914 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 7.71 ft³/s (0.22 m³/s) Jan. 8 (gage height, 1.45 ft or 0.442 m); maximum gage height, 2.51 ft (0.765 m) Jan. 8 (backwater); minimum daily discharge, 0.80 ft³/s (0.023 m³/s) Aug. 22 to Sept. 4.
Period of record: Maximum discharge, 7,300 ft³/s (207 m³/s) Feb. 11, 1974, on basis of computation of flow through dam; maximum gage height, 4.50 ft (1.372 m) Dec. 23, 1971; minimum daily discharge, 0.69 ft³/s (0.020 m³/s) Aug. 6-27, 1972.

REMARKS.--Records poor. Flow partially regulated by Lake Arrowhead, capacity, 48,000 acre-ft (59.2 hm³) used principally for recreation, Silverwood Lake, capacity, 78,000 acre-ft (96.2 hm³) used for the storage and distribution of imported water and recreation, and Mojave Forks Reservoir, capacity, 79,800 acre-ft (98.4 hm³) used for flood control with ungated opening, capacity, 23,500 ft³/s (666 m³/s). Silverwood Reservoir releases all natural inflow to the west fork of the Mojave River as soon as possible after a storm. Sewage effluent from Lake Arrowhead area is released above gage at times.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	4.3	12	11	64	95	113	32	12	2.6	1.0	.80
2	2.0	4.9	36	14	62	450	183	30	11	2.5	1.0	.80
3	2.2	5.8	19	12	59	330	152	29	11	2.4	.99	.80
4	2.2	6.6	13	16	58	170	90	29	10	2.3	.98	.80
5	2.3	6.8	11	17	58	110	77	31	9.6	2.2	.97	.81
6	2.6	6.6	11	47	54	100	74	32	9.4	2.1	.96	.82
7	3.4	6.3	11	161	49	142	64	35	10	2.0	.95	.83
8	3.5	6.3	10	550	46	410	64	33	9.8	2.0	.94	.84
9	3.7	6.3	9.8	169	46	180	73	29	9.0	1.9	.93	.85
10	4.1	6.3	9.4	104	46	180	86	26	8.3	1.8	.92	.86
11	4.5	6.3	9.4	62	46	160	82	25	7.7	1.8	.91	.87
12	4.1	6.6	9.0	62	46	172	72	24	7.1	1.7	.90	.88
13	4.1	7.1	8.7	72	47	186	70	22	6.3	1.7	.89	.89
14	4.1	6.8	8.3	70	46	186	68	21	6.0	1.6	.88	.90
15	4.1	7.1	8.3	68	46	193	66	21	6.0	1.6	.87	.91
16	4.1	7.4	8.3	93	47	186	66	20	5.8	1.5	.86	.92
17	3.7	7.5	8.3	201	50	182	65	19	5.3	1.5	.85	.93
18	3.9	26	8.7	144	48	182	59	19	5.1	1.4	.84	.94
19	3.7	35	8.3	124	47	172	59	19	4.7	1.4	.83	.95
20	3.7	14	8.3	144	46	159	56	18	4.7	1.3	.82	.96
21	4.3	11	7.7	314	44	138	51	18	4.9	1.3	.81	.97
22	3.7	9.4	8.3	272	43	116	42	17	4.1	1.3	.80	.98
23	3.9	10	8.3	104	43	106	41	17	3.9	1.2	.80	.99
24	4.3	9.8	8.0	113	43	101	41	17	3.7	1.2	.80	1.0
25	4.5	9.8	7.7	104	43	99	40	16	3.7	1.2	.80	1.0
26	4.5	9.4	9.8	59	44	93	39	16	3.5	1.1	.80	1.1
27	4.9	9.0	11	60	45	95	39	15	3.4	1.1	.80	1.1
28	4.7	9.0	11	60	46	95	36	14	3.0	1.1	.80	1.1
29	4.5	9.4	11	65	-----	108	36	14	2.9	1.1	.80	1.2
30	5.6	10	9.4	68	-----	147	33	13	2.8	1.1	.80	1.2
31	5.1	-----	9.8	65	-----	132	-----	12	-----	1.0	.80	-----
TOTAL	118.0	280.8	329.8	3,425	1,362	5,175	2,037	683	194.7	50.0	27.10	28.00
MEAN	3.81	9.36	10.6	110	48.6	167	67.9	22.0	6.49	1.61	.87	.93
MAX	5.6	35	36	550	64	450	183	35	12	2.6	1.0	1.2
MIN	2.0	4.3	7.7	11	43	93	33	12	2.8	1.0	.80	.80
AC-FT	234	557	654	6,790	2,700	10,260	4,040	1,350	386	99	54	56

CAL YR 1973 TOTAL 30,612.50 MEAN 83.9 MAX 3,500 MIN 1.8 AC-FT 60,720
WTR YR 1974 TOTAL 13,710.40 MEAN 37.6 MAX 550 MIN .80 AC-FT 27,190

10261500 MOJAVE RIVER AT LOWER NARROWS, NEAR VICTORVILLE, CALIF.

LOCATION.--Lat 34°34'23", long 117°19'11", in SW¼SW¼SE¼ sec.29, T.6 N., R.4 W., San Bernardino County, on left bank 650 ft (198 m) upstream from bridge on county road, formerly U.S. Highway 66, 0.6 mi (1 km) downstream from Atchison, Topeka, and Santa Fe Railway bridge, and 3 mi (5 km) northwest of Victorville.

DRAINAGE AREA.--514 mi² (1,331 km²).

PERIOD OF RECORD.--February 1899 to September 1906, October 1930 to current year. Monthly discharge only for January to September 1906, October, November 1930, published in WSP 1314. Prior to October 1936, published as "at Victorville" and as "near Victorville" in 1937.

GAGE.--Water-stage recorder. Datum of gage is 2,643.01 ft (805.59 m), revised, above mean sea level. See WSP 1314 for history of gage changes prior to Mar. 28, 1938. Mar. 28, 1938, to Apr. 14, 1966, at site 350 ft (107 m) upstream at datum 5.00 ft (1.52 m) higher; Apr. 14, 1966, to July 17, 1969, at site 350 ft (107 m) upstream at datum 3.00 ft (0.91 m) higher.

AVERAGE DISCHARGE.--51 years, 73.4 ft³/s (2.08 m³/s), 53,180 acre-ft/yr (65.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 626 ft³/s (17.7 m³/s) Sept. 4 (gage height, 3.84 ft or 1.170 m, from floodmarks); minimum daily, 7.9 ft³/s (0.22 m³/s) July 6, 7.

Period of record: Maximum discharge, 70,600 ft³/s (2,000 m³/s) Mar. 2, 1938 (gage height, 23.7 ft or 7.2 m, present datum), from rating curve extended above 10,000 ft³/s (283 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 6 ft³/s (0.17 m³/s) Aug. 19, 21, 26, 1951.

REMARKS.--Records fair. Regulation by Lake Arrowhead, capacity, 48,000 acre-ft (59.2 hm³) used principally for recreation, Silverwood Lake, capacity, 78,000 acre-ft (96.2 hm³) used for the storage and distribution of imported water and recreation, and by Mojave Forks Reservoir since June 1970, capacity, 89,700 acre-ft (111 hm³) with ungated opening, capacity, 23,500 ft³/s (666 m³/s). Since 1970 effluent from Mojave State Fish Hatchery diverted to Spring Valley Lake. Diversions and pumping for irrigation of about 5,000 acres (20.2 km²) above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	27	34	47	37	30	32	24	14	9.5	14	10
2	24	25	32	41	37	31	31	24	16	8.7	16	10
3	19	25	31	37	34	31	34	24	15	9.5	24	10
4	19	24	32	51	32	31	36	25	16	9.5	26	68
5	18	23	32	59	32	31	37	25	15	8.7	18	24
6	18	25	32	51	37	31	32	26	16	7.9	15	12
7	19	25	34	66	37	30	34	25	16	7.9	12	13
8	21	25	34	70	37	30	34	24	16	10	10	12
9	22	27	32	55	37	30	32	22	15	10	9.5	12
10	22	25	36	47	37	30	34	25	14	11	9.5	12
11	22	24	34	47	37	28	32	22	13	12	10	12
12	22	28	36	45	37	24	32	22	13	12	9.5	12
13	22	31	36	43	37	25	32	21	13	10	10	11
14	21	30	36	32	37	28	28	21	14	11	10	10
15	22	34	37	32	37	28	31	21	13	11	9.5	10
16	22	34	36	34	37	24	31	21	11	11	9.5	10
17	24	32	39	36	36	25	30	21	12	10	10	9.5
18	24	36	37	34	37	28	25	20	13	9.5	10	13
19	25	32	37	34	39	26	28	20	14	10	10	12
20	25	32	37	34	39	26	30	20	13	10	10	12
21	25	32	37	36	37	30	28	20	13	10	9.5	10
22	25	32	37	36	34	26	28	19	13	20	9.5	10
23	25	32	37	34	34	26	26	25	11	20	10	12
24	25	32	37	36	32	28	26	21	11	16	10	12
25	24	36	37	36	32	31	30	18	11	12	10	13
26	22	34	37	32	31	28	28	15	12	11	10	13
27	24	34	39	36	30	31	28	15	12	10	10	13
28	24	36	41	36	30	31	24	14	10	9.5	10	12
29	25	36	39	36	-----	28	25	16	8.7	10	10	11
30	25	36	41	36	-----	31	24	16	10	10	10	12
31	26	-----	41	37	-----	31	-----	16	-----	10	10	-----
TOTAL	706	904	1,117	1,286	990	888	902	648	393.7	337.7	361.5	412.5
MEAN	22.8	30.1	36.0	41.5	35.4	28.6	30.1	20.9	13.1	10.9	11.7	13.8
MAX	26	36	41	70	39	31	37	26	16	20	26	68
MIN	18	23	31	32	30	24	24	14	8.7	7.9	9.5	9.5
AC-FT	1,400	1,790	2,220	2,559	1,960	1,760	1,790	1,290	781	670	717	818

CAL YR 1973 TOTAL 17,461.3 MEAN 47.8 MAX 1,420 MIN 7.9 AC-FT 34,630
WTR YR 1974 TOTAL 8,946.4 MEAN 24.5 MAX 70 MIN 7.9 AC-FT 17,750

MOJAVE RIVER BASIN

10262000 MOJAVE RIVER NEAR HODGE, CALIF.

LOCATION.--Lat 34°50'09", long 117°11'27", in SW¼SE¼SE¼ sec.28, T.9 N., R.3 W., San Bernardino County, at county bridge 1.5 mi (2.4 km) north of Hodge, and 10.9 mi (17.5 km) southwest of Barstow.

DRAINAGE AREA.--1,090 mi² (2,823 km²).

PERIOD OF RECORD.--October 1930 to September 1932, October 1970 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 2,260 ft (689 m), from topographic map. Prior to Oct. 1, 1970, at different datum.

AVERAGE DISCHARGE.--6 years (1930-32, 1970-74), 15.4 ft³/s (0.436 m³/s), 11,160 acre-ft/yr (13.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 55 ft³/s (1.56 m³/s) Aug. 3 (gage height, 6.01 ft or 1.832 m), on basis of slope-area computation of maximum flow; no flow all year except Aug. 3.

Period of record: Maximum discharge, 8,900 ft³/s (252 m³/s) Feb. 9, 1932 (gage height, 5.20 ft or 1.585 m, datum then in use); no flow most of each year.

REMARKS.--Records poor. Regulation by Lake Arrowhead, capacity, 48,000 acre-ft (59.2 hm³) used principally for recreation, Silverwood Lake, capacity, 78,000 acre-ft (96.2 hm³) used for the storage and distribution of imported water and recreation, and Mojave Forks Reservoir, capacity, 89,700 acre-ft (111 hm³), with ungated opening, capacity, 23,500 ft³/s (666 m³/s). Diversion and pumping for irrigation of about 12,000 acres (48.6 km²) above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											0	
2											0	
3											2.3	
4											0	
5											0	
6											0	
7											0	
8											0	
9											0	
10											0	
11											0	
12											0	
13											0	
14											0	
15											0	
16											0	
17											0	
18											0	
19											0	
20											0	
21											0	
22											0	
23											0	
24											0	
25											0	
26											0	
27											0	
28											0	
29					-----						0	
30					-----						0	
31		-----			-----		-----		-----		0	-----
TOTAL	0	0	0	0	0	0	0	0	0	0	2.3	0
MEAN	0	0	0	0	0	0	0	0	0	0	.074	0
MAX	0	0	0	0	0	0	0	0	0	0	2.3	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	0	0	0	0	4.6	0
CAL YR 1973	TOTAL 2,213.00			MEAN 6.06	MAX 430	MIN 0	AC-FT 4,390					
WTR YR 1974	TOTAL 2.30			MEAN .006	MAX 2.3	MIN 0	AC-FT 4					

PEAK DISCHARGE (BASE, 100 FT³/S).--No peak above base.

10262500 MOJAVE RIVER AT BARSTOW, CALIF.

LOCATION.--Lat 34°54'25", long 117°01'19", in SE¼SW¼SW¼ sec.31, T.10 N., R.1 W., San Bernardino County, on left bank 75 ft (23 m) upstream from bridge on U.S. Highway 91 at Barstow.

DRAINAGE AREA.--1,290 mi² (3,341 km²).

PERIOD OF RECORD.--October 1930 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,089.34 (636.831 m), revised, above mean sea level.

AVERAGE DISCHARGE.--44 years, 23.1 ft³/s (0.654 m³/s), 16,740 acre-ft/yr (20.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 5.0 ft³/s (0.14 m³/s) Jan. 8, on basis of estimate of maximum flow; no flow most of year.

Period of record: Maximum discharge, 64,300 ft³/s (1,820 m³/s) Mar. 3, 1938 (gage height, 8.60 ft or 2.621 m), on basis of slope-area measurement of maximum flow; no flow for most months each year.

REMARKS.--Records poor. Regulation by Lake Arrowhead, capacity, 48,000 acre-ft (59.2 hm³) used principally for recreation, Silverwood Lake, capacity, 78,000 acre-ft (96.2 hm³) used for the storage and distribution of imported water and recreation, and Mojave Forks Reservoir, capacity, 89,700 acre-ft (111 hm³) with ungated opening, capacity, 23,500 ft³/s (666 m³/s). Diversions and pumping for irrigation of about 15,000 acres (60.7 km²) above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0								
2				0								
3				0								
4				0								
5				0								
6				0								
7				0								
8				.21								
9				0								
10				0								
11				0								
12				0								
13				0								
14				0								
15				0								
16				0								
17				0								
18				0								
19				0								
20				0								
21				0								
22				0								
23				0								
24				0								
25				0								
26				0								
27				0								
28				0								
29				0								
30				0								
31		-----		0	-----		-----		-----			-----
TOTAL	0	0	0	.21	0	0	0	0	0	0	0	0
MEAN	0	0	0	.007	0	0	0	0	0	0	0	0
MAX	0	0	0	.21	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	.4	0	0	0	0	0	0	0	0

CAL YR 1973 TOTAL 76.00 MEAN .21 MAX 56 MIN 0 AC-FT 151
WTR YR 1974 TOTAL 0.21 MEAN .000 MAX .21 MIN 0 AC-FT 0

PEAK DISCHARGE (BASE, 100 FT³/S).--No peak above base.

10263000 MOJAVE RIVER AT AFTON, CALIF.

LOCATION.--Lat 35°02'14", long 116°23'00", in SW¼NW¼SE¼ sec.18, T.11 N., R.6 E., San Bernardino County, on downstream end of right pier of Union Pacific Railroad bridge, 0.3 mi (0.5 km) west of Afton.

DRAINAGE AREA.--2,120 mi² (5,490 km²).

PERIOD OF RECORD.--October 1929 to September 1932, October 1952 to current year. Records for the water year 1930 incomplete, yearly estimate published in WSP 1314.

GAGE.--Water-stage recorder. Datum of gage is 1,400.15 ft (426.766 m) above mean sea level. Dec. 21, 1929, to Sept. 30, 1932, at site 1.7 mi (2.7 km) downstream at different datum.

AVERAGE DISCHARGE.--25 years, 5.69 ft³/s (0.161 m³/s), 4,120 acre-ft/yr (5.08 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 933 ft³/s (26.4 m³/s) July 18 (gage height, 6.19 ft or 1.887 m), on basis of slope-conveyance measurement of maximum flow; no flow many days.

Period of record: Maximum discharge, 18,000 ft³/s (510 m³/s) Jan. 26, 1969 (gage height, 10.40 ft or 3.170 m), from rating curve extended above 3,200 ft³/s (90.6 m³/s) on basis of slope-area measurement of maximum flow; no flow for some days in many years.

REMARKS.--Records fair. Natural flow affected by ground-water withdrawals, diversions, municipal use, and storage in upstream reservoirs (see sta 10261500).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.11	.85	1.0	1.0	1.0	.78	.72	.39	0		0
2	0	.12	.85	1.0	1.0	.92	.78	.72	.35	0		0
3	0	.14	.85	1.0	1.1	.92	.78	.72	.35	0		.76
4	0	.16	.85	1.2	1.1	.85	.92	.66	.39	0		.44
5	0	.18	.85	1.4	1.1	.85	.92	.66	.35	0		.18
6	0	.21	.85	1.2	1.1	.78	.92	.66	.31	0		.12
7	0	.24	.85	1.3	1.1	.85	.85	.54	.31	0		.05
8	0	.27	.85	1.6	1.0	1.1	.85	.49	.27	0		0
9	0	.31	.92	1.2	1.0	1.7	.85	.49	.16	0		0
10	0	.31	.92	1.2	1.0	.92	.85	.54	.14	0		0
11	0	.35	.92	1.2	1.1	.85	.92	.54	0	0		0
12	0	.35	.92	1.3	1.1	.85	.92	.54	0	0		0
13	0	.39	.92	1.2	1.1	.78	.92	.49	0	0		0
14	0	.39	.92	1.2	1.1	.78	.92	.44	0	0		0
15	0	.44	.92	1.2	1.1	.72	.92	.44	0	0		0
16	0	.44	.92	1.2	1.1	.72	.85	.35	.02	0		0
17	0	.49	1.0	1.2	.92	.72	.85	.35	.09	0		0
18	0	.49	1.0	1.2	.92	.66	.85	.35	0	33		0
19	0	.44	1.0	1.1	.92	.72	.78	.35	0	0		0
20	0	.49	1.0	1.1	.92	.72	.72	.31	0	0		0
21	0	.54	1.0	1.1	.92	.72	.72	.27	0	0		0
22	.01	.54	1.0	1.0	1.0	.72	.78	.31	0	0		0
23	.03	.54	1.0	1.1	1.1	.78	.78	.31	0	0		0
24	.04	.60	.92	1.1	1.1	.85	.78	.27	0	0		0
25	.04	.72	.92	1.1	.92	.85	.78	.27	0	0		0
26	.05	.72	1.1	1.1	.92	.85	.78	.31	0	0		0
27	.06	.72	1.1	1.1	.92	.85	.72	.31	0	0		0
28	.07	.72	1.1	1.1	.92	.85	.72	.35	0	0		0
29	.08	.72	1.1	1.1	-----	.92	.72	.39	0	0		0
30	.09	.85	1.0	1.0	-----	.85	.72	.39	0	0		0
31	.10	-----	1.0	1.0	-----	.78	-----	.39	-----	0		-----
TOTAL	.57	12.99	29.40	35.8	28.38	36.33	24.65	13.93	3.13	33	0	1.55
MEAN	.018	.43	.95	1.15	1.01	1.17	.82	.45	.10	1.06	0	.052
MAX	.10	.85	1.1	1.6	1.1	1.1	.92	.72	.39	33	0	.76
MIN	0	.11	.85	1.0	.92	.66	.72	.27	0	0	0	0
AC-FT	1.1	26	58	71	56	72	49	28	6.2	65	0	3.1

CAL YR 1973 TOTAL 142.09 MEAN .39 MAX 3.9 MIN 0 AC-FT 282
WTR YR 1974 TOTAL 219.73 MEAN .60 MAX 33 MIN 0 AC-FT 436

PEAK DISCHARGE (BASE, 100 FT³/S).--July 18 (1900) 933 ft³/s.

10263500 BIG ROCK CREEK NEAR VALYERMO, CALIF.

LOCATION.--Lat 34°25'15", long 117°50'19", in NW¼SE¼NE¼ sec.20, T.4 N., R.9 W., Los Angeles County, on left bank 0.1 mi (0.2 km) upstream from Punchbowl Canyon, and 1.9 mi (3.1 km) southeast of Valyermo.

DRAINAGE AREA.--22.9 mi² (59.3 km²).

PERIOD OF RECORD.--January 1923 to current year. Monthly discharge only for October 1937 to January 1939, published in WSP 1314. Prior to October 1954, published as Rock Creek near Valyermo.

GAGE.--Water-stage recorder. Altitude of gage is 4,050 ft (1,234 m), from topographic map. Prior to May 4, 1938, at same site at different datums. May 4, 1938, to Jan. 26, 1939, at site 0.2 mi (0.3 km) downstream (below Punchbowl Canyon) at different datum.

AVERAGE DISCHARGE.--51 years, 15.9 ft³/s (0.450 m³/s), 11,520 acre-ft/yr (14.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 35 ft³/s (0.99 m³/s) Mar. 2 (gage height, 3.65 ft or 1.113 m); minimum daily, 4.0 ft³/s (0.11 m³/s) Sept. 28-30.

Period of record: Maximum discharge, 8,300 ft³/s (235 m³/s) Mar. 2, 1938, on basis of slope-area measurement of maximum flow; minimum daily, 0.70 ft³/s (0.020 m³/s) Nov. 5, 1951.

REMARKS.--Records good. No regulation or diversion above station. Some infiltration into the streambed in the immediate vicinity of station. Records of water temperatures for the current year are published in Part 2 of this report.

COOPERATION.--Ten discharge measurements furnished by Los Angeles County Flood Control District.

REVISIONS (WATER YEARS).--WRD Calif. 1973: 1972.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	5.8	7.8	5.8	10	10	23	16	11	8.8	7.4	5.2
2	6.2	5.8	7.4	5.8	12	30	23	16	10	8.7	7.4	5.2
3	6.4	6.2	7.4	5.8	11	29	23	16	10	8.7	7.8	5.2
4	6.4	6.2	7.4	6.2	12	26	22	17	10	8.6	7.8	5.2
5	6.4	6.2	7.0	5.8	12	25	22	16	10	8.5	8.6	5.2
6	6.2	6.2	6.6	6.6	12	24	21	16	10	8.5	8.2	4.9
7	6.0	6.2	6.6	7.0	12	25	21	16	10	8.2	8.2	4.9
8	5.8	6.2	6.6	6.6	12	26	20	16	10	8.2	8.2	4.9
9	5.8	5.8	7.0	6.6	12	25	20	16	10	8.2	7.8	4.6
10	5.5	5.8	7.0	7.0	10	25	20	16	10	8.2	7.8	4.6
11	5.6	6.2	7.0	6.6	10	25	19	15	9.5	8.2	7.8	4.6
12	5.4	6.6	7.0	7.4	10	25	19	15	9.5	8.2	7.8	4.6
13	5.4	7.0	7.0	7.4	10	25	18	15	9.5	8.2	7.8	4.6
14	5.2	7.0	6.6	7.4	10	26	17	15	9.5	8.2	7.8	4.6
15	5.2	7.0	6.2	7.6	10	27	16	15	9.4	8.2	7.4	4.6
16	5.2	7.0	6.2	8.2	10	27	17	14	9.4	7.8	7.0	4.3
17	5.2	7.0	5.8	11	9.5	28	16	14	9.0	7.8	6.2	4.3
18	5.2	7.8	5.7	10	9.5	29	17	14	9.0	8.2	6.2	4.3
19	5.4	7.0	5.6	12	9.0	29	16	14	9.0	8.2	6.2	4.3
20	5.4	7.0	5.5	13	9.0	28	17	14	9.0	8.6	6.2	4.3
21	5.5	7.0	5.5	14	9.0	27	16	14	8.6	8.2	6.2	4.5
22	5.5	7.0	5.5	12	9.0	26	16	13	8.6	8.4	6.2	4.5
23	5.5	7.4	5.5	11	9.0	26	16	13	8.6	8.6	6.2	4.2
24	5.6	7.8	5.2	11	9.0	25	16	13	8.8	7.8	5.8	4.2
25	5.8	7.4	4.9	10	9.5	25	17	13	8.8	7.6	5.8	4.3
26	5.8	7.0	4.9	10	9.0	24	16	12	8.8	7.5	5.8	4.3
27	5.5	7.0	4.9	10	9.0	23	16	12	8.8	7.5	5.5	4.2
28	5.8	6.6	4.9	10	9.0	23	16	12	8.7	7.4	5.5	4.0
29	5.8	6.6	4.9	10	-----	24	16	12	8.7	7.6	5.5	4.0
30	5.8	7.0	4.9	10	-----	24	16	11	8.8	7.4	5.5	4.0
31	5.5	-----	4.9	10	-----	24	-----	11	-----	7.4	5.5	-----
TOTAL	176.5	200.8	189.4	271.8	284.5	785	548	442	281.0	251.6	213.1	136.6
MEAN	5.69	6.69	6.11	8.77	10.2	25.3	18.3	14.3	9.37	8.12	6.87	4.55
MAX	6.4	7.8	7.8	14	12	30	23	17	11	8.8	8.6	5.2
MIN	5.2	5.8	4.9	5.8	9.0	10	16	11	8.6	7.4	5.5	4.0
AC-FT	350	398	376	539	564	1,560	1,090	877	557	499	423	271

CAL YR 1973 TOTAL 5,831.3 MEAN 10.0 MAX 66 MIN 3.8 AC-FT 11,570
 WTR YR 1974 TOTAL 3,780.3 MEAN 10.4 MAX 30 MIN 4.0 AC-FT 7,500

PEAK DISCHARGE (BASE, 50 FT³/S).--No peak above base.

10264000 LITTLE ROCK CREEK NEAR LITTLE ROCK, CALIF.

LOCATION.--Lat 34°27'47", long 118°01'04", in SW¼SW¼NE¼ sec.3, T.4 N., R.11 W., Los Angeles County, on right bank 0.3 mi (0.5 km) upstream from Santiago Creek, 1.6 mi (2.6 km) upstream from Little Rock Palmdale Irrigation District's dam, and 5 mi (8 km) south of Little Rock.

DRAINAGE AREA.--49.0 mi² (126.9 km²).

PERIOD OF RECORD.--October 1930 to February 1938, May to September 1938, April 1939 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,290 ft (1,003 m), from topographic map. Prior to May 1943, at site 500 ft (152 m) downstream at different datums (datum changed in March 1939).

AVERAGE DISCHARGE.--42 years (1930-37, 1939-74), 16.5 ft³/s (0.467 m³/s), 11,950 acre-ft/yr (14.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 87 ft³/s (2.46 m³/s) Mar. 2 (gage height, 6.52 ft or 1.987 m); no flow many days.

Period of record: Maximum discharge, 17,000 ft³/s (481 m³/s), estimated, Mar. 2, 1938; no flow at times in most years.

REMARKS.--Records poor. No regulation or diversion above station.

COOPERATION.--Records furnished by Los Angeles County Flood Control District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	2.9	2.0	17	23	40	15	4.6	.60	0	.10
2		0	9.8	2.0	18	57	46	15	4.4	.50	0	.10
3		0	6.1	2.0	18	51	46	15	3.9	.50	0	.10
4		0	5.2	2.0	18	34	41	15	3.6	.50	.90	0
5		0	4.2	2.9	19	30	37	15	3.6	.40	6.1	0
6		0	3.6	5.4	18	29	36	15	3.4	.40	2.1	0
7		0	2.9	10	16	30	35	15	3.4	.30	1.0	0
8		0	2.5	13	15	39	34	14	2.9	.30	.60	0
9		0	2.3	9.8	14	32	35	14	2.7	.30	.40	0
10		0	2.3	8.7	13	36	31	13	2.5	.20	.30	0
11		0	2.3	8.0	13	38	30	12	2.1	.20	.20	0
12		.10	2.1	9.1	13	43	27	11	2.0	.10	.10	0
13		.30	2.1	12	13	52	27	11	1.8	.10	.20	0
14		.40	2.1	12	12	56	26	10	1.6	.10	.20	0
15		.40	2.1	14	12	64	24	9.8	1.4	.10	.20	0
16		.40	2.1	20	13	64	24	9.5	1.2	.10	.20	0
17		.40	2.1	52	13	65	24	9.1	1.0	.10	.20	0
18		12	2.0	59	13	70	24	9.1	.90	0	.20	0
19		7.4	2.0	65	14	64	23	8.7	1.0	0	.20	0
20		4.4	2.0	54	13	56	22	8.4	1.4	0	.20	0
21		3.4	2.0	62	12	52	21	8.0	1.4	.10	.20	0
22		2.7	2.0	42	12	49	20	7.4	1.0	0	.20	0
23		2.7	2.0	32	12	46	20	7.0	.90	.20	.20	0
24		2.5	2.0	27	12	42	20	7.0	.90	.10	.20	0
25		2.3	2.0	23	12	41	20	6.4	.80	.10	.20	0
26		2.1	2.0	22	12	38	18	5.4	.80	0	.20	0
27		2.0	2.0	20	12	38	17	5.2	.70	0	.20	0
28		2.0	2.0	17	14	38	17	4.9	.70	0	.10	0
29		2.0	2.0	16	-----	43	16	4.9	.70	0	.10	0
30		2.0	2.0	15	-----	47	15	4.9	.60	0	.10	0
31		-----	2.0	16	-----	45	-----	4.9	-----	0	.10	-----
TOTAL	0	49.50	84.7	654.9	393	1,412	816	310.6	57.90	5.30	15.10	.30
MEAN	0	1.65	2.73	21.1	14.0	45.5	27.2	10.0	1.93	.17	.49	.010
MAX	0	12	9.8	65	19	70	46	15	4.6	.60	6.1	.10
MIN	0	0	2.0	2.0	12	23	15	4.9	.60	0	0	0
AC-FT	0	98	168	1,300	780	2,800	1,620	616	115	11	30	.6

CAL YR 1973 TOTAL 5,875.50 MEAN 16.1 MAX 556 MIN 0 AC-FT 11,650
WTR YR 1974 TOTAL 3,799.30 MEAN 10.4 MAX 70 MIN 0 AC-FT 7,540

10264600 OAK CREEK NEAR MOJAVE, CALIF.

LOCATION.--Lat 35°03'00", long 118°21'25", in NW¼ sec.15, T.11 N., R.14 W., Kern County, on upstream right wingwall of culvert, 100 ft (30 m) downstream from unnamed tributary, 0.1 mi (0.2 km) west of junction of Oak Creek and Willow Springs Roads, and 10.5 mi (16.9 km) west of Mojave.

DRAINAGE AREA.--15.8 mi² (40.9 km²).

PERIOD OF RECORD.--August 1957 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 4,100 ft (1,250 m), from topographic map.

AVERAGE DISCHARGE.--17 years, 0.74 ft³/s (0.0210 m³/s), 536 acre-ft/yr (661,000 m³/yr).

EXTREMES.--Current year: Maximum discharge, 6.9 ft³/s (0.20 m³/s) Jan. 13 (gage height, 1.15 ft or 0.351 m); maximum gage height, 1.90 ft (0.579 m), as explained below; minimum daily discharge, 0.02 ft³/s (0.001 m³/s) Sept. 9-26.

Period of record: Maximum discharge, 1,740 ft³/s (49.3 m³/s) May 14, 1973, by slope-area measurement, caused by failure of small earthen dam 4 mi (6.4 km) upstream during intense local thunderstorm; maximum gage height, 10.53 ft (3.210 m) May 14, 1973, ponding at culvert 0.1 mi (0.2 km) downstream; no flow for some months in most years.

REMARKS.--Records good below 15 ft³/s (0.42 m³/s) and poor above. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	.10	.95	.69	.86	.94	.86	.68	.44	.18	.05	.03
2	.06	.12	.70	.63	.86	1.1	1.7	.67	.47	.19	.04	.03
3	.07	.25	.56	.59	1.0	1.0	.89	.66	.31	.18	.04	.03
4	.06	.22	.78	.45	.86	.96	.88	.69	.32	.15	.04	.03
5	.07	.22	.70	.68	.78	.92	.88	.77	.33	.12	.04	.03
6	.08	.22	.63	.72	.95	1.0	.85	.70	.36	.10	.04	.03
7	.09	.22	.56	.87	.86	1.2	.90	.64	.40	.09	.04	.03
8	.10	.19	.63	.81	.86	1.4	.86	.60	.46	.10	.04	.03
9	.12	.19	.63	.81	.86	1.2	1.1	.56	.48	.10	.04	.02
10	.14	.19	.63	.82	.86	1.2	1.1	.60	.42	.11	.04	.02
11	.14	.19	.63	1.5	.86	1.2	.98	.59	.24	.11	.04	.02
12	.15	.19	.56	1.3	.86	1.0	.94	.56	.17	.09	.04	.02
13	.14	.19	.56	1.3	.86	.90	.89	.55	.14	.06	.04	.02
14	.13	.19	.63	.78	.86	.85	.88	.55	.11	.07	.04	.02
15	.10	.22	.63	.78	.86	.83	.88	.47	.13	.07	.03	.02
16	.08	.22	.63	.86	.86	.82	.85	.49	.14	.07	.03	.02
17	.09	.22	.56	1.1	.95	.86	.82	.52	.19	.08	.03	.02
18	.09	.70	.57	1.0	.95	.83	.86	.59	.19	.05	.03	.02
19	.09	.44	.62	1.6	.95	.91	.91	.72	.27	.06	.03	.02
20	.10	.44	.62	1.2	.86	.72	.89	.63	.25	.06	.03	.02
21	.11	.44	.63	1.1	.89	.57	.86	.62	.18	.05	.03	.02
22	.10	.56	.68	.78	.83	.66	.85	.57	.15	.06	.03	.02
23	.10	.44	.63	.78	.84	.68	.87	.57	.14	.09	.03	.02
24	.07	.44	.65	.86	.84	.64	.90	.55	.13	.07	.03	.02
25	.06	.44	.66	.95	.83	.64	.90	.52	.13	.06	.03	.02
26	.06	.56	.67	.86	.88	.67	.84	.50	.12	.05	.03	.02
27	.09	.63	.71	.86	.84	.65	.81	.42	.12	.05	.03	.03
28	.09	.63	.65	.86	.92	.71	.79	.38	.12	.05	.03	.03
29	.10	.50	.64	.86	-----	.72	.75	.40	.13	.05	.03	.03
30	.10	.39	.66	.95	-----	.74	.72	.45	.14	.04	.03	.03
31	.10	-----	.64	.86	-----	.79	-----	.42	-----	.04	.03	-----
TOTAL	2.94	9.95	20.00	28.21	24.49	27.31	27.21	17.64	7.18	2.65	1.08	.72
MEAN	.095	.33	.65	.91	.87	.88	.91	.57	.24	.086	.035	.024
MAX	.15	.70	.95	1.6	1.0	1.4	1.7	.77	.48	.19	.05	.03
MIN	.06	.10	.56	.45	.78	.57	.72	.38	.11	.04	.03	.02
AC-FT	5.8	20	40	56	49	54	54	35	14	5.3	2.1	1.4

CAL YR 1973 TOTAL 528.79 MEAN 1.45 MAX .95 MIN .02 AC-FT 1,050
WTR YR 1974 TOTAL 169.38 MEAN .46 MAX 1.7 MIN .02 AC-FT 336

PEAK DISCHARGE (BASE, 10 FT³/S).--No peak above base.

KOEHN LAKE BASIN

10264750 PINE TREE CREEK NEAR MOJAVE, CALIF.

LOCATION.--Lat 35°13'50", long 118°05'07", in SW¼NW¼SE¼ sec.14, T.31 S., R.36 E., Kern County, on downstream side of city of Los Angeles aqueduct-siphon pier near right bank, 0.5 mi (0.8 km) downstream from unnamed tributary, and 13 mi (21 km) northeast of Mojave.

DRAINAGE AREA.--33.5 mi² (86.8 km²).

PERIOD OF RECORD.--July 1958 to current year.

GAGE.--Water-stage recorder with rain-gage attachment. Altitude of gage is 2,700 ft (823 m), from topographic map. Prior to Oct. 1, 1961, at datum 3.0 ft (0.9 m) higher.

AVERAGE DISCHARGE.--16 years, 0.19 ft³/s (0.005 m³/s), 138 acre-ft/yr (170,000 m³/yr).

EXTREMES.--Current year: No flow during year.

Period of record: Maximum discharge, 30,000 ft³/s (850 m³/s) Aug. 23, 1961, on basis of field estimate of maximum flow; no flow most of each year.

REMARKS.--No flow since May 14, 1973. No regulation or diversion above station. Monthly precipitation, in inches, for the current year is as follows: January, 0.4; April, 0.1.

10265200 CONVICT CREEK NEAR MAMMOTH LAKES, CALIF.

LOCATION.--Lat 37°36'26", long 118°50'52", in NE¼NE¼ sec.14, T.4 S., R.28 E., Mono County, on right bank 1.1 mi (1.8 km) downstream from Convict Lake, 2.0 mi (3.2 km) upstream from U.S. Highway 395, and 7.0 mi (11.2 km) southeast of Mammoth Lakes (Ranger Station).

DRAINAGE AREA.--18.2 mi² (47.1 km²).

PERIOD OF RECORD.--July 1925 to current year. Prior to October 1959 monthly discharge only, published in WSP 1314 and 1734.

GAGE.--Water-stage recorder and wood control. Altitude of gage is 7,450 ft (2,271 m), from topographic map. Prior to Nov. 15, 1926, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--49 years, 24.6 ft³/s (0.697 m³/s), 17,820 acre-ft/yr (22.0 hm³/yr).

EXTREMES.--Current year: Maximum daily discharge, 140 ft³/s (3.96 m³/s) June 8; minimum daily, 1.0 ft³/s (0.028 m³/s) Sept. 20-22.

Period of record: Maximum discharge, 290 ft³/s (8.21 m³/s) June 29, 1932 (gage height, 4.43 ft or 1.350 m); minimum daily, 1.0 ft³/s (0.028 m³/s) Sept. 20-22, 1974.

REMARKS.--Records poor. Some regulation by Convict Lake above station. No diversion above station.

COOPERATION.--Records furnished by city of Los Angeles, Department of Water and Power.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	13	16	13	13	12	12	14	67	92	66	20
2	14	13	19	14	12	14	14	14	68	97	64	20
3	14	10	17	13	12	15	14	16	67	99	62	20
4	14	9.0	16	13	12	16	13	18	67	97	60	20
5	14	11	16	14	12	14	13	19	69	94	58	20
6	14	9.0	16	15	12	14	13	21	73	92	57	20
7	14	9.0	16	17	12	14	13	23	106	87	56	20
8	14	8.0	16	17	12	14	13	26	140	83	55	20
9	14	9.0	16	17	12	14	13	30	128	79	54	20
10	14	9.0	15	17	12	14	13	35	122	75	53	28
11	14	14	15	16	12	14	13	39	122	71	50	28
12	14	23	13	16	12	14	13	42	126	67	48	23
13	14	23	14	15	12	14	12	46	131	63	45	20
14	14	23	14	14	12	14	12	48	134	61	43	19
15	14	22	13	14	12	14	12	49	138	59	42	19
16	14	22	12	14	11	13	12	50	132	59	41	19
17	14	22	14	17	11	13	12	49	126	61	39	16
18	14	26	10	17	11	13	12	48	119	62	38	12
19	14	24	10	17	11	13	13	48	114	62	37	7.0
20	14	22	10	17	11	13	14	44	106	60	37	1.0
21	13	21	8.0	19	11	12	14	41	101	59	36	1.0
22	13	21	16	18	11	12	14	39	98	58	34	1.0
23	14	21	16	17	10	12	14	37	100	58	32	9.0
24	14	21	15	17	10	12	14	36	101	59	32	32
25	13	21	14	17	10	12	14	36	98	67	31	28
26	13	17	13	16	10	12	14	38	96	74	30	23
27	13	17	13	15	10	12	14	44	95	75	27	20
28	13	15	14	14	10	13	13	51	92	74	24	19
29	12	15	15	14	-----	13	13	59	91	72	20	19
30	12	14	12	13	-----	13	14	62	92	71	20	19
31	13	-----	12	13	-----	12	-----	65	-----	68	20	-----
TOTAL	423	504.0	436.0	480	318	411	394	1,187	3,119	2,255	1,311	543.0
MEAN	13.6	16.8	14.1	15.5	11.4	13.3	13.1	38.3	104	72.7	42.3	18.1
MAX	14	26	19	19	13	16	14	65	140	99	66	32
MIN	12	8.0	8.0	13	10	12	12	14	67	58	20	1.0
AC-FT	839	1,000	865	952	631	815	781	2,350	6,190	4,470	2,600	1,080
CAL YR 1973	TOTAL	11,841.0	MEAN	32.4	MAX	130	MIN	8.0	AC-FT	23,490		
WTR YR 1974	TOTAL	11,381.0	MEAN	31.2	MAX	140	MIN	1.0	AC-FT	22,570		

10265700 ROCK CREEK AT LITTLE ROUND VALLEY, NEAR BISHOP, CALIF.

LOCATION.--Lat 37°33'15", long 118°41'03", in SE¼SE¼ sec.32, T.4 S., R.30 E., Mono County, on right bank just upstream from diversion to Little Round Valley, 0.6 mi (1.0 km) south of Toms Place, and 20 mi (32 km) north west of Bishop.

DRAINAGE AREA.--35.8 mi² (92.7 km²).

PERIOD OF RECORD.--January to December 1918, January 1920 to current year. Prior to October 1959 monthly discharge only, published in WSP 1314 and 1734..

GAGE.--Water-stage recorder. Parshall flume since May 1953. Altitude of gage is 7,280 ft (2,220 m), from topographic map. See WSP 1734 for history of changes prior to May 28, 1953.

AVERAGE DISCHARGE.--54 years (1920-74), 29.8 ft³/s (0.844 m³/s), 21,590 acre-ft/yr (26.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 182 ft³/s (5.15 m³/s) June 8 (gage height, 3.56 ft or 1.085 m); minimum daily, 8.7 ft³/s (0.25 m³/s) Feb. 4, 5.
Period of record (1926 to current year): Maximum discharge, 312 ft³/s (8.84 m³/s) May 30, 1969 (gage height, 5.00 ft or 1.524 m); minimum daily, 2.2 ft³/s (0.062 m³/s) Nov. 30, 1971.

REMARKS.--Records poor. No regulation or diversion above station.

COOPERATION.--Records furnished by city of Los Angeles, Department of Water and Power.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	11	11	13	9.2	10	15	28	120	102	60	19
2	12	11	15	13	10	9.5	15	33	115	109	62	17
3	12	9.4	14	13	10	11	15	37	109	107	66	17
4	12	11	13	13	8.7	14	15	39	115	98	62	18
5	12	9.4	12	13	8.7	13	15	39	122	96	56	19
6	12	10	11	13	14	14	15	42	141	96	52	18
7	12	10	11	13	12	14	15	46	167	91	46	18
8	13	9.4	11	13	11	14	15	59	169	83	42	18
9	13	9.5	10	13	11	13	15	76	155	74	38	18
10	12	11	12	13	11	13	15	88	150	66	35	18
11	13	16	16	15	11	13	15	95	152	58	33	18
12	13	14	16	15	11	12	15	99	150	49	33	18
13	13	14	12	15	11	12	15	98	144	44	33	18
14	13	13	11	14	11	12	16	98	147	42	33	18
15	12	12	11	15	11	13	15	101	148	44	32	17
16	12	12	11	15	11	13	15	94	142	49	31	17
17	12	12	11	15	12	13	17	85	130	55	29	16
18	12	11	11	16	16	13	19	73	116	59	27	16
19	12	16	14	17	11	13	17	66	103	58	25	15
20	12	16	12	16	13	13	17	58	94	55	24	15
21	12	17	13	16	11	13	17	52	89	54	23	15
22	12	16	10	14	10	13	19	49	92	56	23	14
23	12	18	11	13	10	13	20	49	100	60	22	14
24	12	15	11	11	10	13	19	48	104	63	21	14
25	12	16	10	11	10	13	19	54	98	71	21	14
26	12	10	10	10	10	13	19	71	93	89	20	14
27	12	10	9.4	13	10	13	19	95	98	92	20	14
28	12	12	11	11	9.8	14	20	115	86	80	20	13
29	12	12	11	9.2	-----	14	21	123	89	71	19	13
30	12	11	10	9.4	-----	14	24	118	95	67	19	13
31	12	-----	13	9.4	-----	14	-----	113	-----	65	19	-----
TOTAL	378	79.9	350.8	410.4	298.4	399.8	508	2,246	3,623	2,203	1,046	486
MEAN	12.2	12.7	11.3	13.3	10.7	12.9	16.9	72.5	121	71.1	33.7	16.2
MAX	13	18	15	17	14	14	24	123	169	109	66	19
MIN	12	9.5	9.8	9.2	8.7	9.8	15	28	86	42	19	13
AC-FT	750	754	696	815	592	793	1,010	4,450	7,190	4,370	2,070	964

CAL YR 1973 TOTAL 11,359.3 MEAN 31.1 MAX 154 MIN 7.7 AC-FT 22,510
WTR YR 1974 TOTAL 12,329.7 MEAN 33.8 MAX 169 MIN 9.7 AC-FT 24,460

OWENS LAKE BASIN

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10267000 PINE CREEK AT DIVISION BOX, NEAR BISHOP, CALIF.

LOCATION.--Lat 37°24'59", long 118°37'15", in SE¼NW¼ sec.19, T.6 S., R.31 E., Inyo County, on right bank 0.2 mi (0.3 km) upstream from division box (at Rovana), 1.9 mi (3.1 km) west of Round Valley schoolhouse, and 13 mi (21 km) northwest of Bishop.

DRAINAGE AREA.--36.4 mi² (94.3 km²).

PERIOD OF RECORD.--October 1921 to current year. Prior to October 1959 monthly discharge only, published in WSP 1314 and 1734.

GAGE.--Water-stage recorder. Parshall flume since November 1938. Altitude of gage is 5,280 ft (1,609 m), from topographic map.

AVERAGE DISCHARGE.--53 years, 45.4 ft³/s (1.286 m³/s), 32,890 acre-ft/yr (40.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 314 ft³/s (8.89 m³/s) June 6 (gage height, 5.20 ft or 1.585 m); minimum daily, 22 ft³/s (0.62 m³/s) Feb. 24-28.
Period of record: Maximum discharge, 509 ft³/s (14.4 m³/s) July 2, 1967 (gage height, 6.05 ft or 1.844 m); minimum daily, 10 ft³/s (0.28 m³/s) Jan. 8, 1930, Jan. 21, 1935.

REMARKS.--Records poor. No regulation or diversion above station.

COOPERATION.--Records furnished by city of Los Angeles, Department of Water and Power.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	26	28	27	25	25	28	39	186	189	87	36
2	28	26	27	27	24	26	28	47	167	181	91	36
3	28	26	27	26	24	24	29	52	187	165	86	36
4	27	26	27	26	24	23	27	52	199	161	78	36
5	27	26	27	26	24	24	27	50	220	162	75	36
6	27	26	26	26	24	24	27	54	266	163	77	35
7	27	26	26	28	24	24	27	67	282	144	73	35
8	27	26	26	26	24	24	28	89	247	129	68	35
9	28	26	26	26	24	24	28	111	234	117	66	35
10	27	26	26	26	24	24	28	122	248	109	65	35
11	27	33	26	25	24	24	27	125	248	92	64	33
12	27	37	26	25	24	24	27	128	238	87	61	33
13	26	30	26	25	24	24	27	119	253	87	60	33
14	26	31	26	26	24	25	28	120	246	92	59	33
15	26	30	26	25	24	25	28	130	241	98	57	32
16	26	29	26	26	24	25	29	118	234	107	54	31
17	26	30	26	26	24	25	30	104	193	109	51	31
18	26	31	26	27	24	25	31	88	167	104	49	31
19	26	29	26	27	24	26	31	79	160	100	48	30
20	26	30	26	27	24	25	30	68	144	98	47	30
21	26	29	26	26	23	25	30	64	160	98	45	30
22	26	28	26	26	23	26	31	66	184	102	43	29
23	26	28	26	26	23	26	33	75	191	109	42	29
24	26	28	27	26	22	26	32	86	174	122	42	29
25	26	27	27	26	22	26	31	118	161	122	41	29
26	26	27	27	26	22	26	31	158	150	160	40	29
27	26	27	27	25	22	26	31	190	144	122	40	29
28	26	27	26	25	22	27	31	208	149	107	39	29
29	26	27	27	25	-----	27	32	195	163	101	38	29
30	26	27	26	25	-----	27	33	174	171	96	38	28
31	27	-----	26	25	-----	27	-----	179	-----	89	37	-----
TOTAL	422	845	817	804	660	779	880	3,275	6,007	3,722	1,761	962
MEAN	26.5	28.2	26.4	25.9	23.6	25.1	29.3	106	200	120	56.8	32.1
MAX	28	37	28	28	25	27	33	208	282	189	91	36
MIN	26	26	26	25	22	23	27	39	144	87	37	28
AC-FT	1,630	1,680	1,620	1,590	1,310	1,550	1,750	6,500	11,910	7,380	3,490	1,910

CAL YR 1973 TOTAL 19,995 MEAN 54.8 MAX 260 MIN 20 AC-FT 39,660
WTR YR 1974 TOTAL 21,334 MEAN 58.4 MAX 282 MIN 22 AC-FT 42,320

10268700 SILVER CANYON CREEK NEAR LAWS, CALIF.

LOCATION.--Lat 37°24'28", long 118°16'43", in Inyo National Forest, Inyo County, on right bank 1.7 mi (2.7 km) upstream from mouth of canyon, 3.7 mi (6.0 km) east of Laws.

DRAINAGE AREA.--19.7 mi² (51.0 km²).

PERIOD OF RECORD.--March 1930 to current year. Prior to October 1959 monthly discharge only, published in WSP 1314 and 1734.

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is 5,120 ft (1,560 m), from topographic map. Feb. 24, 1943, to Sept. 30, 1972, at site 1.7 mi (2.7 km) downstream at different datum. Prior to Feb. 24, 1943, nonrecording gage and Cipolletti weir at site 3.2 mi (5.1 km) downstream at different datum.

AVERAGE DISCHARGE.--44 years, 1.65 ft³/s (0.0467 m³/s), 1,200 acre-ft/yr (1.48 hm³/yr).

EXTREMES.--Current year: Maximum daily discharge, 2.5 ft³/s (0.071 m³/s) Nov. 17, 18; minimum daily, 1.5 ft³/s (0.042 m³/s) June 21 to July 20, Aug. 1 to Sept. 30.
Period of record: Maximum discharge, 9.6 ft³/s (0.272 m³/s) June 16, 1969 (gage height, 1.65 ft or 0.503 m, site and datum then in use); no flow at times in some years.

REMARKS.--Records poor. No regulation; occasional diversion above station.

COOPERATION.--Records furnished by city of Los Angeles, Department of Water and Power.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	2.2	2.3	2.1	2.1	2.0	1.8	1.8	1.7	1.5	1.5	1.5
2	2.3	2.2	2.3	2.0	2.1	2.0	1.8	1.8	1.7	1.5	1.5	1.5
3	2.3	2.3	2.3	2.1	2.1	2.0	1.8	1.8	1.7	1.5	1.5	1.5
4	2.3	2.3	2.3	2.1	2.1	2.0	1.8	1.8	1.7	1.5	1.5	1.5
5	2.3	2.3	2.3	2.1	2.1	2.0	1.8	1.8	1.7	1.5	1.5	1.5
6	2.3	2.3	2.3	2.1	2.1	2.0	1.8	1.9	1.7	1.5	1.5	1.5
7	2.3	2.3	2.3	2.1	2.1	2.0	1.8	1.9	1.7	1.5	1.5	1.5
8	2.2	2.3	2.3	2.1	2.1	2.0	1.9	1.9	1.7	1.5	1.5	1.5
9	2.2	2.3	2.3	2.1	2.0	1.9	1.9	1.9	1.7	1.5	1.5	1.5
10	2.2	2.3	2.3	2.1	2.0	1.9	1.9	1.9	1.7	1.5	1.5	1.5
11	2.3	2.3	2.3	2.1	2.0	1.9	1.9	1.9	1.6	1.5	1.5	1.5
12	2.3	2.4	2.3	2.0	2.0	1.9	1.9	1.9	1.6	1.5	1.5	1.5
13	2.3	2.3	2.2	2.0	2.0	1.9	2.0	1.8	1.6	1.5	1.5	1.5
14	2.3	2.3	2.2	2.0	2.0	1.9	2.0	1.8	1.6	1.5	1.5	1.5
15	2.3	2.3	2.2	2.0	2.0	1.9	2.0	1.8	1.6	1.5	1.5	1.5
16	2.3	2.3	2.2	2.0	2.0	1.9	2.0	1.8	1.6	1.5	1.5	1.5
17	2.3	2.5	2.2	2.0	2.0	1.8	2.0	1.8	1.6	1.5	1.5	1.5
18	2.3	2.5	2.2	2.0	2.0	1.8	2.0	1.8	1.6	1.5	1.5	1.5
19	2.3	2.4	2.2	2.0	2.0	1.8	2.0	1.8	1.6	1.5	1.5	1.5
20	2.3	2.4	2.2	2.0	2.0	1.8	2.0	1.8	1.6	1.5	1.5	1.5
21	2.3	2.4	2.2	2.0	2.0	1.8	2.0	1.8	1.5	1.6	1.5	1.5
22	2.4	2.4	2.3	2.0	2.0	1.8	1.9	1.8	1.5	1.6	1.5	1.5
23	2.2	2.4	2.2	2.0	2.0	1.8	1.9	1.8	1.5	1.6	1.5	1.5
24	2.2	2.4	2.2	2.0	2.0	1.8	1.9	1.8	1.5	1.6	1.5	1.5
25	2.2	2.4	2.2	2.0	2.0	1.7	1.9	1.8	1.5	1.6	1.5	1.5
26	2.2	2.4	2.2	2.0	2.0	1.7	1.9	1.8	1.5	1.6	1.5	1.5
27	2.2	2.3	2.2	2.0	2.0	1.7	1.9	1.8	1.5	1.6	1.5	1.5
28	2.3	2.3	2.2	2.0	2.0	1.7	1.8	1.8	1.5	1.6	1.5	1.5
29	2.3	2.3	2.2	2.0	-----	1.7	1.8	1.8	1.5	1.6	1.5	1.5
30	2.2	2.3	2.2	2.0	-----	1.7	1.8	1.8	1.5	1.6	1.5	1.5
31	2.2	-----	2.2	2.0	-----	1.7	-----	1.8	-----	1.6	1.5	-----
TOTAL	70.4	70.1	69.5	63.0	56.8	57.5	56.9	56.5	48.0	47.6	46.5	45.0
MEAN	2.27	2.34	2.24	2.03	2.03	1.85	1.90	1.82	1.60	1.54	1.50	1.50
MAX	2.4	2.5	2.3	2.1	2.1	2.0	2.0	1.9	1.7	1.6	1.5	1.5
MIN	2.2	2.2	2.2	2.0	2.0	1.7	1.8	1.8	1.5	1.5	1.5	1.5
AC-FT	140	139	138	125	113	114	113	112	95	94	92	89

CAL YR 1973 TOTAL 755.3 MEAN 2.07 MAX 2.7 MIN 1.2 AC-FT 1,500
WTR YR 1974 TOTAL 687.8 MEAN 1.88 MAX 2.5 MIN 1.5 AC-FT 1,360

10271210 BISHOP CREEK BELOW POWERPLANT NO. 6, NEAR BISHOP, CALIF.

LOCATION.--Lat 37°20'59", long 118°27'41", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.9, T.7 S., R.32 E., Inyo County, below powerplant No. 6 tailrace, and 3.6 mi (5.8 km) west of Bishop.

DRAINAGE AREA.--104 mi² or 269 km² (natural flow).

PERIOD OF RECORD.--October 1936 to current year. Monthly and yearly mean discharges prior to October 1969, published in WRD Calif. 1971.

GAGE.--None.

AVERAGE DISCHARGE (Actual flow).--39 years, 99.1 ft³/s (2.807 m³/s), 71,800 acre-ft/yr (88.5 hm³/yr).
(Natural flow).--39 years, 106 ft³/s (3.002 m³/s), 76,800 acre-ft/yr (94.7 hm³/yr).

EXTREMES (Actual flow).--Current year: Maximum daily discharge, 267 ft³/s (7.56 m³/s) July 2; minimum daily, 59 ft³/s (1.67 m³/s) Mar. 10.

Period of record (1970 to current year): Maximum daily discharge, 337 ft³/s (9.54 m³/s) June 28, 1973; minimum daily, 46 ft³/s (1.30 m³/s) Apr. 30, 1972.

REMARKS.--Flow regulated for power development by South Lake, Lake Sabrina, and Intake No. 2 Reservoir, combined capacity, 20,660 acre-ft (25.5 hm³) and many powerhouses. Records for "actual flow" include Bishop Creek above powerplant No. 6 tailrace and Bishop Creek powerplant No. 6 conduit. Records for "natural flow" include "actual flow" of Bishop Creek below powerplant No. 6, Abelour ditch near Bishop, minus Birch-McGee diversion to Bishop Creek powerplant near Bishop, and the change in contents and evaporation for South Lake, Lake Sabrina, and Intake No. 2 Reservoir.

COOPERATION.--Records furnished by Southern California Edison Co. and reviewed by Geological Survey, in connection with a Federal Power Commission project.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	65	115	111	82	69	121	131	149	248	229	111
2	68	85	114	111	82	66	118	132	153	267	226	111
3	63	86	113	112	82	62	114	138	152	253	226	111
4	63	89	113	110	82	63	113	130	153	245	211	116
5	63	89	113	111	78	61	114	112	152	236	199	113
6	63	88	113	108	82	60	114	114	160	236	195	114
7	62	88	112	113	82	60	114	139	180	217	188	113
8	63	89	114	111	81	62	113	142	188	205	179	112
9	63	90	113	112	62	60	110	141	169	198	172	112
10	64	89	113	111	81	59	110	147	165	184	169	112
11	65	89	112	112	81	60	108	153	173	181	165	110
12	63	98	110	113	81	60	112	153	178	178	163	112
13	64	116	111	110	83	60	111	152	184	179	159	112
14	63	115	111	106	82	60	112	152	175	178	156	111
15	64	114	113	107	82	61	114	152	179	176	150	112
16	63	113	111	109	86	62	116	154	186	180	144	114
17	64	112	112	109	83	61	117	153	152	176	139	113
18	62	115	111	110	82	61	117	153	168	175	120	111
19	63	112	108	110	82	62	117	154	171	170	116	112
20	62	121	111	110	80	60	114	149	175	167	113	113
21	62	115	111	110	80	72	113	150	176	170	112	112
22	62	113	114	110	80	88	117	156	184	171	110	112
23	61	114	113	110	82	84	115	151	188	171	111	112
24	62	116	112	109	81	82	114	153	216	171	110	112
25	60	115	111	112	80	95	116	159	233	173	109	107
26	61	112	111	111	78	127	113	154	227	188	111	111
27	61	114	111	110	79	126	114	156	212	189	111	111
28	66	114	108	111	78	127	101	156	214	184	110	111
29	62	113	111	111	-----	124	123	158	224	178	111	111
30	62	112	111	110	-----	128	129	156	230	187	111	111
31	60	-----	109	111	-----	128	-----	153	-----	209	111	-----
TOTAL	1,973	3,101	3,465	3,421	2,274	2,410	3,434	4,553	5,466	6,040	4,636	3,355
MEAN	63.6	103	112	110	81.2	77.7	114	147	182	195	150	112
MAX	89	121	115	113	86	128	129	159	233	267	229	116
MIN	60	65	108	106	78	59	101	112	149	167	109	107
AC-FT	3,910	6,150	6,870	6,790	4,510	4,780	6,810	9,030	10,840	11,980	9,200	6,650
(a)	2,850	3,200	3,180	3,470	2,470	3,240	3,610	12,700	21,370	14,190	7,870	3,930
CAL YR 1973	TOTAL 43,368	MEAN 119	MAX 337	MIN 60	AC-FT 86,020	a 82,030						
WTR YR 1974	TOTAL 44,128	MEAN 121	MAX 267	MIN 59	AC-FT 87,530	a 82,080						

a Computed natural flow, in acre-feet.

10276000 BIG PINE CREEK NEAR BIG PINE, CALIF.

LOCATION.--Lat 37°08'42", long 118°18'52", in SW¼SW¼SE¼ sec.24, T.9 S., R.33 E., Inyo County, on left bank 0.3 mi (0.5 km) downstream from Little Pine Creek, 0.5 mi (0.8 km) downstream from powerhouse No. 3, and 2.2 mi (3.5 km) southwest of Big Pine.

DRAINAGE AREA.--39.0 mi² (101.0 km²).

PERIOD OF RECORD.--November 1907 to February 1911, January 1920 to current year; combined records of creek and diversions, June 1930 to current year. Monthly discharge only for some periods, published in WSP 1314 and 1734.

GAGE.--Water-stage recorder and Parshall flume since April 1949 on creek; water-stage recorder and Parshall flume on each diversion. Altitude of gage is 4,500 ft (1,372 m), from topographic map. Prior to January 1923, nonrecording gage at same site and datum.

AVERAGE COMBINED DISCHARGE.--44 years (1930-74), 41.2 ft³/s (1.167 m³/s), 29,850 acre-ft/yr (36.8 hm³/yr).

EXTREMES (Creek only).--Current year: Maximum discharge, 193 ft³/s (5.46 m³/s) June 14 (gage height, 3.70 ft or 1.128 m); minimum daily, 8.7 ft³/s (0.25 m³/s) Oct. 17, 18.

Period of record: Maximum discharge, 458 ft³/s (13.0 m³/s) July 3, 1932 (gage height, 6.55 ft or 1.996 m); no flow Dec. 3-12, 1935.

(Combined flow).--Current year: Maximum discharge, 206 ft³/s (5.83 m³/s) June 14; minimum daily, 13 ft³/s (0.368 m³/s) Feb. 20, 26-28.

Period of record: Maximum discharge, 458 ft³/s (13.0 m³/s) July 3, 1932; minimum daily, 6.4 ft³/s (0.181 m³/s) Dec. 11, 12, 1935.

REMARKS.--Records poor. No regulation above station. Diversions above station for power and irrigation. At times since 1962 discharge from Little Pine Creek has been spread in nearby meadows and does not reach gage as surface flow. For records of combined discharge of Big Pine Creek and Giroux ditches which divert above station, see following page.

COOPERATION.--Records furnished by city of Los Angeles, Department of Water and Power.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	13	14	12	11	15	13	17	86	160	141	33
2	12	13	13	11	11	15	13	19	85	163	124	33
3	11	13	14	11	11	13	12	22	86	148	108	35
4	10	13	13	9.8	11	12	13	25	92	141	95	38
5	10	13	14	10	10	12	16	22	104	144	96	39
6	9.8	14	14	11	10	12	15	23	125	148	89	39
7	9.8	14	14	11	11	11	15	28	143	130	83	40
8	10	13	13	14	11	11	15	34	156	115	74	39
9	10	13	13	13	11	11	15	44	156	87	71	38
10	9.8	14	13	13	11	11	14	46	160	70	66	38
11	10	17	13	12	11	11	14	49	170	58	64	37
12	10	26	13	13	11	11	14	52	171	54	65	35
13	9.8	15	13	12	10	11	14	50	179	62	68	33
14	9.8	11	13	12	10	11	14	50	182	74	68	30
15	9.8	11	13	12	10	11	13	54	178	89	59	27
16	9.3	11	13	13	10	12	12	49	167	105	54	25
17	8.7	12	13	14	10	12	14	44	147	110	50	23
18	8.7	13	13	13	10	12	15	39	125	98	48	22
19	9.3	13	13	13	10	12	14	36	118	95	46	22
20	13	14	12	12	9.5	12	13	34	103	96	42	22
21	14	13	12	12	10	12	13	34	118	94	41	21
22	14	13	13	12	10	12	14	35	133	103	40	21
23	14	13	13	11	10	12	14	37	141	99	39	22
24	14	13	12	11	10	13	13	39	136	111	38	23
25	14	12	12	11	10	13	13	49	132	109	38	23
26	14	13	12	11	9.0	13	12	61	117	115	37	22
27	14	13	12	11	9.5	13	12	75	111	111	36	24
28	13	13	12	11	9.5	14	12	85	116	109	35	25
29	13	13	12	11	-----	13	12	80	129	108	35	25
30	13	13	12	11	-----	14	14	74	140	120	36	24
31	14	-----	12	11	-----	13	-----	80	-----	162	35	-----
TOTAL	352.8	405	398	364.8	287.5	380	407	1,386	4,006	3,388	1,921	878
MEAN	11.4	13.5	12.8	11.8	10.3	12.3	13.6	44.7	134	109	62.0	29.3
MAX	14	26	14	14	11	15	16	85	182	163	141	40
MIN	8.7	11	12	9.8	9.0	11	12	17	85	54	35	21
AC-FT	700	803	789	724	570	754	807	2,750	7,950	6,720	3,810	1,740

CAL YR 1973 TOTAL 13,223.4 MEAN 36.2 MAX 178 MIN 5.1 AC-FT 26,230
WTR YR 1974 TOTAL 14,174.1 MEAN 38.8 MAX 182 MIN 8.7 AC-FT 28,110

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF BIG PINE CREEK AND UPPER AND LOWER GIROUX DITCHES, NEAR BIG PINE, CALIF., WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

10281800 INDEPENDENCE CREEK BELOW PINYON CREEK, NEAR INDEPENDENCE, CALIF.

LOCATION.--Lat 36°46'43", long 118°15'49", in NE¼SE¼NW¼ sec.27, T.13 S., R.34 E., Inyo County, on right bank 0.2 mi (0.3 km) downstream from Pinyon Creek, and 4.0 mi (6.4 km) southwest of Independence.

DRAINAGE AREA.--18.1 mi² (46.9 km²).

PERIOD OF RECORD.--January 1923 to current year. Prior to October 1959 monthly discharge only, published in WSP 1734.

GAGE.--Water-stage recorder and Parshall flume (Cipolletti weir used during low flow). Altitude of gage is 5,300 ft (1,615 m), from topographic map. See WSP 1734 for history of changes prior to Dec. 13, 1936.

AVERAGE DISCHARGE.--51 years, 12.7 ft³/s (0.360 m³/s), 9,200 acre-ft/yr (11.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 55 ft³/s (1.56 m³/s) May 29 (gage height, 2.18 ft or 0.664 m); minimum daily, 1.9 ft³/s (0.054 m³/s) Jan. 2.
Period of record: Maximum discharge, 169 ft³/s (4.79 m³/s) June 1, 1969 (gage height, 4.45 ft or 1.356 m); minimum daily, 0.70 ft³/s (0.020 m³/s) Jan. 25, 1926, Dec. 15, 1935.

REMARKS.--Records poor. No regulation or diversion above station.

COOPERATION.--Records furnished by city of Los Angeles, Department of Water and Power.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	3.8	4.1	3.0	3.5	3.6	7.5	13	47	39	40	11
2	4.9	3.6	4.1	1.9	3.3	5.4	8.7	15	46	39	40	11
3	4.9	3.5	4.1	2.3	3.3	4.5	7.7	18	46	39	36	11
4	5.0	3.3	3.9	3.3	3.5	4.1	7.7	20	47	38	34	10
5	4.9	3.6	3.8	3.9	3.3	3.9	7.5	20	48	38	33	10
6	4.7	3.8	3.6	3.8	3.3	3.9	7.5	20	51	38	32	10
7	4.9	3.9	3.6	4.4	3.8	3.8	7.5	21	48	39	30	10
8	5.4	3.8	3.5	4.2	3.6	4.2	7.7	24	48	31	28	10
9	5.4	3.8	3.3	3.8	3.6	4.2	8.3	32	47	22	27	10
10	5.2	3.8	3.3	3.5	3.6	3.9	7.7	39	47	22	25	9.7
11	5.4	4.5	3.3	3.3	3.6	3.9	7.5	43	46	20	24	9.5
12	5.2	7.7	3.3	3.6	3.6	3.8	7.7	47	44	19	23	9.5
13	5.0	5.4	3.9	3.6	3.3	3.8	7.9	47	42	19	22	9.3
14	4.9	4.7	3.9	3.5	3.3	3.9	8.1	46	39	19	21	9.3
15	4.7	4.7	3.8	3.8	3.3	4.2	8.5	47	35	19	20	9.1
16	4.7	4.5	3.8	4.4	3.2	4.5	8.9	47	44	19	19	9.1
17	4.4	4.7	3.6	5.9	3.2	4.5	9.7	44	42	18	19	8.7
18	4.4	6.2	3.3	5.9	3.2	4.7	10	41	41	18	18	8.3
19	4.4	5.2	3.3	6.6	3.0	4.9	10	38	40	18	17	7.7
20	4.4	5.0	3.3	5.4	3.2	4.7	10	35	39	17	17	7.7
21	4.4	4.5	3.3	5.0	3.0	4.9	10	32	39	16	16	7.7
22	4.2	4.4	3.3	4.7	3.0	5.2	10	31	39	19	15	7.5
23	4.2	4.2	3.3	4.4	2.9	5.2	11	30	40	16	15	7.2
24	4.1	4.1	3.3	4.1	2.9	5.4	11	30	40	19	14	7.2
25	4.1	4.1	3.3	4.1	2.9	5.5	11	34	40	23	14	7.2
26	4.1	4.2	3.2	3.9	2.8	5.5	11	41	39	28	13	7.0
27	3.9	4.1	3.3	3.9	2.8	5.5	11	47	39	28	13	6.8
28	3.9	3.9	3.3	3.9	2.8	6.6	11	50	38	28	12	6.8
29	3.8	3.8	3.8	3.8	-----	6.8	11	52	38	28	12	6.8
30	3.8	3.6	3.5	3.6	-----	7.5	11	49	38	31	12	6.8
31	3.8	-----	3.5	3.6	-----	7.2	-----	47	-----	36	12	-----
TOTAL	142.1	130.4	110.4	125.1	90.8	149.9	274.1	1,100	1,277	807	673	261.9
MEAN	4.58	4.35	3.56	4.04	3.24	4.84	9.14	35.5	42.6	26.0	21.7	8.73
MAX	5.4	7.7	4.1	6.6	3.8	7.5	11	52	51	39	40	11
MIN	3.8	3.3	3.2	1.9	2.8	3.6	7.5	13	35	17	12	6.8
AC-FT	282	259	219	248	180	297	544	2,180	2,530	1,600	1,330	519

CAL YR 1973 TOTAL 5,074.90 MEAN 13.9 MAX 56 MIN 1.80 AC-FT 10,070
WTR YR 1974 TOTAL 5,141.70 MEAN 14.1 MAX 52 MIN 1.9 AC-FT 10,200

10285700 OWENS RIVER AT KEELER BRIDGE, NEAR LONE PINE, CALIF.

LOCATION.--Lat 36°34'46", long 118°01'06", in NE¼NW¼NW¼ sec.1, T.16 S., R.36 E., Inyo County, on right bank under old timber bridge 0.5 mi (0.8 km) upstream from bridge on State Highway 190, and 3.4 mi (5.5 km) southeast of Lone Pine.

DRAINAGE AREA.--2,604 mi² (6,744 km²).

PERIOD OF RECORD.--January 1927 to current year. Prior to October 1959 monthly discharge only, published in WSP 1314 and 1734.

GAGE.--Water-stage recorder and Cipolletti weir. Altitude of gage is 3,600 ft (1,097 m), from topographic map. See WSP 1734 for history of changes prior to Feb. 14, 1935. Feb. 14, 1935, to Nov. 22, 1964, water-stage recorder and Cipolletti weir at same site and datum. Nov. 23, 1964, to June 26, 1967, nonrecording gage and Cipolletti weir at same site and datum.

EXTREMES.--Current year: Maximum daily discharge, 18 ft³/s (0.51 m³/s) Mar. 20; minimum daily, 0.27 ft³/s (0.008 m³/s) Aug. 26, 27.

Period of record: Maximum daily discharge, 1,360 ft³/s (38.5 m³/s) June 19, 1969 (gage height, 5.98 ft or 1.823 m); no flow at times in some years.

REMARKS.--Records fair. Natural flow affected by storage in several reservoirs, many natural lakes, diversions for irrigation, and return flow from irrigated areas. Major portion of discharge from basin is diverted through Los Angeles Aqueduct. Discharge reported herein is wasted into Owens Lake.

COOPERATION.--Records furnished by city of Los Angeles, Department of Water and Power.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	4.5	5.3	7.6	8.8	8.8	9.5	5.5	2.6	1.1	.91	.49
2	3.0	4.5	5.3	6.7	8.8	9.2	8.8	5.5	2.6	1.1	.91	.49
3	3.0	4.5	5.3	6.7	8.8	9.2	8.5	5.8	2.6	1.1	.91	.49
4	3.0	4.5	5.3	7.6	8.8	9.5	8.5	5.8	2.4	.91	1.1	.49
5	3.0	4.7	5.3	7.3	8.8	9.5	8.5	6.1	2.4	.91	1.4	.49
6	3.0	4.7	5.5	7.0	8.5	9.8	7.6	6.1	2.2	.91	1.4	.49
7	3.2	5.0	5.5	7.3	8.5	9.8	6.7	5.5	2.2	.91	1.1	.49
8	3.2	5.0	5.5	7.3	8.5	10	6.7	5.5	2.0	.91	.91	.38
9	3.7	5.0	5.5	7.9	8.5	10	6.7	5.3	2.0	.91	.76	.49
10	3.7	5.0	5.5	8.2	8.5	10	7.0	5.0	2.0	.91	.62	.62
11	3.7	5.0	5.5	8.5	8.5	10	7.0	4.7	2.0	1.1	.49	.62
12	4.0	5.0	5.5	8.5	8.8	10	7.0	4.7	2.0	1.1	.49	.62
13	4.0	5.0	5.5	8.5	8.8	10	7.0	4.5	1.8	.91	.49	.76
14	4.0	5.0	5.5	8.5	8.8	9.5	7.0	4.2	1.6	.91	.49	.76
15	4.0	5.3	5.5	8.5	8.8	7.9	7.0	4.2	1.6	1.1	.49	.91
16	4.0	5.0	5.5	8.8	8.8	6.4	7.0	4.0	1.4	1.2	.38	.91
17	4.0	4.7	5.9	8.4	8.3	5.8	7.0	3.7	1.6	1.1	.38	.76
18	4.0	4.7	5.8	9.2	8.8	5.5	6.7	3.7	1.5	.91	.38	.76
19	4.0	4.7	5.8	9.5	8.8	14	6.7	3.7	1.4	.76	.38	.91
20	4.0	4.7	6.1	9.2	8.8	18	6.7	3.7	1.4	.76	.38	.76
21	4.0	5.0	5.8	10	8.8	16	6.7	3.7	1.6	.62	.49	.76
22	4.0	7.6	6.1	9.8	8.8	15	6.4	3.7	1.6	.62	.49	.91
23	4.0	6.7	6.1	10	8.8	16	6.4	3.7	1.4	.62	.49	.91
24	4.0	6.1	6.1	10	8.8	13	5.8	3.5	1.4	.62	.38	1.1
25	4.0	5.5	6.1	9.8	8.8	14	6.1	3.5	1.2	.91	.38	1.1
26	4.0	5.5	6.4	9.5	8.8	15	6.1	3.2	1.2	.91	.27	1.1
27	4.2	5.5	6.4	9.8	8.8	16	6.1	3.2	1.2	.91	.27	1.1
28	4.2	5.3	6.4	9.2	8.8	14	5.8	3.0	1.2	.62	.49	1.1
29	4.2	5.5	6.7	9.2	-----	12	5.8	3.0	1.1	.62	.49	1.2
30	4.2	5.3	6.7	9.2	-----	11	5.5	2.8	1.1	.62	.49	1.2
31	4.2	-----	6.7	8.8	-----	9.8	-----	2.8	-----	.62	.49	-----
TOTAL	116.8	154.5	180.0	266.9	244.6	344.7	208.3	133.3	52.4	27.21	19.10	23.17
MEAN	3.77	5.15	5.81	8.61	8.74	11.1	6.94	4.30	1.75	.88	.62	.77
MAX	4.2	7.6	6.7	10	8.8	18	9.5	6.1	2.6	1.2	1.4	1.2
MIN	3.0	4.5	5.3	6.7	8.5	5.5	5.5	2.8	1.1	.62	.27	.38
AC-FT	232	306	357	529	485	684	413	264	104	54	38	46

CAL YR 1973 TOTAL 1,981.59 MEAN 5.43 MAX 7.2 MIN 0 AC-FT 3,930
WTP YR 1974 TOTAL 1,770.98 MEAN 4.45 MAX 18 MIN .27 AC-FT 3,510

10286000 COTTONWOOD CREEK NEAR OLANCHA, CALIF.

LOCATION.--Lat 36°26'20", long 118°04'48" (unsurveyed), Inyo County, Inyo National Forest, just downstream from intake to Cottonwood powerhouse, and 11.2 mi (18.0 km) north of Olancha.

DRAINAGE AREA.--40.1 mi² (103.9 km²).

PERIOD OF RECORD.--January 1906 to March 1911, January 1914 to current year; combined records of creek and flow through powerhouse, November 1938 to current year. Monthly discharge only January 1914 to September 1959, published in WSP 1314 and 1734.

GAGE.--Water-stage recorder and Parshall flume (Cipolletti weir used during low flow) on creek, destroyed by flood of May 15, 1969; water-stage recorder and Cipolletti weir on powerhouse diversion. Altitude of gage is 4,660 ft (1,420 m), from topographic map. See WSP 1734 for history of changes prior to Oct. 31, 1938. Since May 15, 1969, supplementary gage at site 5.0 mi (8.0 m) downstream at different datum.

AVERAGE COMBINED DISCHARGE.--64 years (1906-10, 1914-74), 22.5 ft³/s (0.637 m³/s), 16,280 acre-ft/yr (20.1 hm³/yr).

EXTREMES (Creek only).--Current year: Maximum daily discharge, 115 ft³/s (3.26 m³/s) May 14; minimum daily, 0.20 ft³/s (0.006 m³/s) on many days.

Period of record: Maximum discharge, 520 ft³/s (14.7 m³/s) June 3, 1969 (gage height, unknown); no flow for some days in some years.

(Combined flow).--Current year: Maximum daily discharge, 121 ft³/s (3.43 m³/s) May 14; minimum daily, 3.8 ft³/s (0.108 m³/s) Jan. 1, 2.

Period of record: Maximum discharge, 520 ft³/s (14.7 m³/s) June 3, 1969; minimum daily, 1.0 ft³/s (0.028 m³/s) July 22, 23, 1961.

REMARKS.--Records poor. No regulation above station. Cottonwood powerhouse, maximum capacity, 22 ft³/s (0.623 m³/s) has diverted since Nov. 13, 1908. Discharge figures for creek only are estimated by correlation with station 3.0 mi (4.8 km) downstream at the Los Angeles Aqueduct. For records of combined discharge of Cottonwood Creek and powerhouse, see following page.

COOPERATION.--Records furnished by city of Los Angeles, Department of Water and Power.

REVISIONS (WATER YEARS).--WRD Calif. 1973: 1972.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.20	.20	.20	.20	.20	.50	.30	40	58	11	1.5	.20
2	.20	.20	.20	.20	.20	.50	.30	41	56	10	3.0	.20
3	.20	.20	.20	.20	.20	.50	.30	46	50	8.0	7.0	.20
4	.20	.20	.20	.20	.20	.30	.30	49	55	8.0	14	.20
5	.20	.20	.20	.20	.20	.30	.30	47	55	7.0	14	.20
6	.20	.20	.20	.20	.20	.30	.30	47	57	6.0	15	.20
7	.20	.20	.20	.20	.20	.30	.30	54	58	5.0	14	.20
8	.20	.20	.20	.20	.20	.30	.30	69	59	4.0	6.5	.20
9	.20	.20	.20	.20	.20	.30	.30	83	58	3.0	3.5	.20
10	.20	.20	.20	.20	.20	.30	.30	90	57	2.0	.20	.20
11	.20	.20	.20	.20	.20	.30	.30	110	55	1.5	.50	.20
12	.20	.20	.20	.20	.20	.30	.30	115	53	1.0	3.5	1.4
13	.20	.20	.20	.20	.20	.30	.30	105	52	.80	7.5	.20
14	.20	.20	.20	.20	.20	.30	.30	106	49	.30	.20	.20
15	.20	.20	.20	.20	.20	.30	.30	105	47	7.0	.20	.20
16	.20	.20	.20	.20	.20	.30	.50	91	44	8.0	.20	.20
17	.20	.20	.20	.20	.20	.30	1.3	86	41	3.0	.20	1.2
18	.20	.20	.20	.20	.20	.30	1.3	72	40	1.0	.20	.20
19	.20	.20	.20	.20	.20	.30	4.2	66	34	.80	.20	1.6
20	.20	.20	.20	.20	.20	.30	4.2	58	33	.80	.20	.20
21	.20	.20	.20	.20	.50	.30	3.3	56	29	.80	.20	.20
22	.20	.20	.20	.20	.50	.30	7.5	51	26	.80	.20	.20
23	.20	.20	.20	.20	.50	.30	19	48	24	.80	.20	.20
24	.20	.20	.20	.20	.50	.30	19	46	20	4.0	.20	.20
25	.20	.20	.20	.20	.50	.30	24	49	18	3.0	.20	.20
26	.20	.20	.20	.20	.50	.30	24	52	16	5.0	.20	.20
27	.20	.20	.20	.20	.50	.30	25	56	16	.80	.20	.20
28	.20	.20	.20	.20	.50	.30	27	58	14	.80	.20	.20
29	.20	.20	.20	.20	-----	.30	30	46	13	.80	.20	.20
30	.20	.20	.20	.20	-----	.30	33	49	11	.80	.20	.20
31	.20	-----	.20	.20	-----	.30	-----	60	-----	.30	.20	-----
TOTAL	6.20	6.00	6.20	6.20	8.00	9.90	227.80	2,051	1,204	107.10	93.80	9.60
MEAN	.20	.20	.20	.20	.29	.32	7.59	66.2	40.1	3.45	3.03	.32
MAX	.20	.20	.20	.20	.50	.50	33	115	59	11	15	1.6
MIN	.20	.20	.20	.20	.20	.30	.30	40	11	.80	.20	.20
AC-FT	12	12	12	12	10	20	452	4,070	2,390	212	186	19

CAL YR 1973 TOTAL 7,713.41 MEAN 18.4 MAX 175 MIN .10 AC-FT 13,320
 1974 TOTAL 3,735.60 MEAN 10.2 MAX 115 MIN .20 AC-FT 7,410

OWENS LAKE BASIN

10286000 COTTONWOOD CREEK NEAR OLANCHA, CALIF.--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF COTTONWOOD CREEK AND
POWERHOUSE NEAR OLANCHA, CALIF., WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	7.3	8.4	3.8	8.2	6.5	14	42	78	33	22	9.6
2	7.0	7.3	8.4	3.8	8.2	8.2	14	47	74	32	18	9.6
3	7.0	7.0	9.0	4.2	8.2	7.6	13	54	76	30	18	9.4
4	7.3	5.9	8.7	5.7	8.2	7.7	13	52	74	30	25	9.4
5	7.3	7.3	8.7	8.2	7.6	8.3	14	55	77	29	25	9.4
6	7.3	7.3	8.4	8.2	6.5	8.8	14	55	76	28	18	9.4
7	7.6	7.0	8.4	7.9	6.3	6.0	14	63	77	27	17	9.0
8	7.9	7.0	8.4	7.9	6.5	9.4	15	79	81	26	16	8.7
9	7.6	7.3	8.2	7.9	5.9	11	15	91	80	25	17	8.7
10	7.9	7.6	8.2	7.9	6.2	10	15	99	76	24	16	8.7
11	3.2	8.7	7.9	7.9	6.5	11	15	110	74	24	17	8.4
12	8.2	7.9	7.9	7.9	6.5	11	17	117	71	23	17	6.4
13	7.9	8.7	8.2	7.9	6.5	10	18	114	70	22	17	8.2
14	7.9	8.7	7.0	8.7	6.5	10	20	121	68	22	4.7	8.4
15	7.6	8.7	8.2	9.6	6.2	8.6	20	119	69	29	15	8.4
16	7.6	8.7	8.2	10	6.5	11	20	108	66	30	14	8.2
17	7.3	8.7	8.2	10	5.9	11	22	106	59	25	14	6.9
18	7.3	8.7	7.6	10	6.2	11	22	92	59	23	13	7.9
19	7.3	8.7	7.0	11	6.2	11	24	86	55	22	13	6.8
20	7.3	9.6	7.6	12	5.7	11	25	74	55	22	13	7.3
21	7.3	9.0	7.6	11	6.0	11	24	73	49	22	13	7.0
22	7.3	8.7	7.6	10	6.0	11	17	72	48	22	13	7.0
23	7.3	9.0	7.0	9.4	6.0	11	23	67	46	22	12	7.0
24	7.3	10	6.5	9.4	6.0	11	23	67	42	26	12	7.0
25	7.3	10	5.9	9.4	6.2	12	25	68	38	25	12	7.3
26	7.3	10	5.4	9.4	6.2	12	25	74	38	27	12	7.3
27	7.3	9.0	5.2	8.7	6.0	11	30	76	36	22	12	7.3
28	7.3	8.7	5.2	8.7	6.0	12	31	78	36	22	11	7.6
29	7.3	8.7	4.4	8.7	-----	12	33	67	35	22	11	7.6
30	7.3	8.7	4.2	8.7	-----	12	37	67	33	22	10	7.9
31	7.3	-----	4.2	8.7	-----	13	-----	78	-----	22	10	-----
TOTAL	230.8	249.9	227.0	262.6	183.4	317.1	612	2,471	1,816	780	457.7	241.8
MEAN	7.45	6.33	7.32	8.47	6.55	10.2	20.4	79.7	60.5	25.2	14.8	8.06
MAX	8.2	10	9.0	12	8.2	13	37	121	81	33	25	9.6
MIN	7.0	5.9	4.2	3.8	5.7	6.0	13	42	33	22	4.7	6.4
AC-FT	456	496	450	521	364	629	1,210	4,900	3,600	1,550	908	480
CAL YR 1973	TOTAL	10,127.2	MEAN	27.7	MAX	187	MIN	4.1	AC-FT	20,090		
WTR YR 1974	TOTAL	7,849.3	MEAN	21.5	MAX	121	MIN	3.8	AC-FT	15,570		

10287000 MONO LAKE NEAR MONO LAKE, CALIF.

LOCATION.--Lat 37°58'46", long 119°08'11", in NW¼ sec.5, T.2 N., R.26 E., Mono County, on west bank 1 mi (2 km) south of town of Mono Lake.

DRAINAGE AREA.--785 mi² (2,033 km²).

PERIOD OF RECORD.--June 1912 to current year. Records prior to September 1934, published in WSP 765.

GAGE.--Nonrecording gage or reference point read once a week. Gage heights prior to October 1944 are converted to elevations above mean sea level in WSP 1314. Gage readings have been reduced to elevations above mean sea level.

EXTREMES.--Period of record: Maximum elevation observed, 6,428.1 ft (1,959.28 m) July 18, 1919, present datum; minimum observed, 6,381.17 ft (1,944.981 m) Sept. 24, 1974.

REMARKS.--Since 1941 water diverted to Owens Lake basin via Mono tunnel, capacity, 200 ft³/s (5.66 m³/s).

COOPERATION.--Records furnished by city of Los Angeles, Department of Water and Power.

ELEVATION, IN FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation	Date	Elevation	Date	Elevation	Date	Elevation
Oct. 5	6,382.76	Jan. 10	6,382.60	Apr. 10	6,382.61	July 10	6,381.77
10	6,382.66	17	6,382.63	17	6,382.62	18	6,381.68
15	6,382.62	24	6,382.65	May 9	6,382.45	Aug. 1	6,381.70
Nov. 8	6,382.43	Feb. 7	6,382.68	16	6,382.42	6	6,381.70
20	6,382.37	14	6,382.65	23	6,382.33	12	6,381.62
27	6,382.39	Mar. 4	6,382.69	29	6,382.31	26	6,381.45
Dec. 14	6,382.46	12	6,382.64	June 6	6,382.27	Sept. 10	6,381.33
27	6,382.48	18	6,382.66	13	6,382.25	24	6,381.17
Jan. 3	6,382.51	Apr. 4	6,382.65	20	6,382.22		

MONO LAKE BASIN

10287070 MILL CREEK BELOW LUNDY LAKE, NEAR MONO LAKE, CALIF.

LOCATION.--Lat 38°01'58", long 119°12'53", in SE¼NE¼ sec.16, T.2 N., R.25 E., Mono County, Inyo National Forest, at road crossing 1,500 ft (457 m) downstream from Lundy Lake Dam, and 4.9 mi (7.9 km) northwest of Mono Lake Post Office.

DRAINAGE AREA.--18.1 mi² or 46.9 km² (natural flow).

PERIOD OF RECORD.--October 1942 to current year. Monthly and yearly mean discharges prior to October 1969, published in WRD Calif. 1971.

GAGE.--Water-stage recorder and Parshall flume on creek. Altitude of gage is 7,760 ft (2,365 m), from topographic map.

AVERAGE DISCHARGE (Actual flow).--33 years, 28.8 ft³/s (0.816 m³/s), 20,900 acre-ft/yr (25.8 hm³/yr).
(Natural flow).--33 years, 30.7 ft³/s (0.869 m³/s), 22,240 acre-ft/yr (27.4 hm³/yr).

EXTREMES (Actual flow).--Current year: Maximum daily discharge, 94 ft³/s (2.66 m³/s) July 2-10; minimum daily, 7.1 ft³/s (0.20 m³/s) Nov. 18.

Period of record (1970 to current year): Maximum daily discharge, 117 ft³/s (3.31 m³/s) June 14, 1973; no flow Apr. 13-18, 1971.

REMARKS.--Flow regulated for power development by Lundy Lake, capacity, 3,820 acre-ft (4.71 hm³). Records for "actual flow" include Mill Creek, Lundy powerplant tailrace, and Upper Conway ditch. Records for "natural flow" are computed as the "actual flow" plus change in contents and evaporation of Lundy Lake.

COOPERATION.--Records furnished by Southern California Edison Co. and reviewed by Geological Survey, in connection with a Federal Power Commission project.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	8.5	15	13	14	10	14	20	67	93	79	38
2	15	8.7	15	13	14	10	14	22	66	94	78	38
3	15	8.9	15	13	14	10	14	26	68	94	78	38
4	14	8.7	15	13	14	10	14	30	68	94	77	38
5	13	7.8	15	13	14	10	14	23	68	94	76	38
6	13	7.7	15	13	14	10	14	30	69	94	75	30
7	13	7.7	16	13	14	10	14	38	68	94	75	26
8	13	7.7	16	13	14	10	16	58	70	94	74	26
9	13	7.7	16	13	14	10	15	65	72	94	74	26
10	13	7.8	16	13	14	10	11	65	74	94	73	29
11	13	7.8	16	13	14	10	15	66	76	92	73	35
12	13	18	16	13	14	10	15	65	79	91	73	38
13	13	8.0	16	13	14	10	15	65	79	90	73	37
14	13	8.0	12	13	14	10	15	65	82	89	72	37
15	13	8.0	15	14	14	10	15	65	84	88	72	37
16	13	8.0	18	13	14	10	15	65	87	86	71	29
17	11	8.2	17	13	14	10	18	65	89	86	70	30
18	9.5	7.1	13	14	14	10	15	65	89	85	70	30
19	9.5	7.2	13	14	14	10	15	65	90	84	69	30
20	9.3	7.2	13	14	14	10	15	65	90	83	68	28
21	9.3	7.2	13	14	14	10	15	65	90	82	68	23
22	9.3	7.2	13	14	14	10	17	54	90	83	67	19
23	9.2	8.7	13	14	14	10	15	39	91	81	67	14
24	27	11	13	14	14	10	16	40	91	81	67	12
25	7.8	11	13	14	14	12	15	54	92	80	67	11
26	7.8	11	13	14	14	14	15	66	92	80	66	7.5
27	7.8	11	13	14	12	14	15	66	92	81	49	9.1
28	7.8	13	13	14	10	15	15	65	92	81	38	14
29	7.9	15	13	14	-----	15	16	66	92	80	38	12
30	8.1	15	13	14	-----	14	19	64	92	80	38	7.8
31	8.1	-----	13	14	-----	14	-----	67	-----	80	38	-----
TOTAL	364.4	278.8	446	418	386	338	451	1,674	2,449	2,702	2,073	787.4
MEAN	11.8	9.29	14.4	13.5	13.8	10.9	15.0	54.0	81.6	87.2	66.9	26.2
MAX	27	18	18	14	14	15	19	67	92	94	79	38
MIN	7.8	7.1	12	13	10	10	11	20	66	80	38	7.5
AC-FT	723	553	885	829	766	670	895	3,320	4,860	5,360	4,110	1,560
(a)	627	908	732	791	544	742	939	3,680	6,770	4,810	2,360	881

CAL YR 1973 TOTAL 10,848.8 MEAN 29.7 MAX 117 MIN 7.1 AC-FT 21,520 a 21,900
WTR YR 1974 TOTAL 12,367.6 MEAN 33.9 MAX 94 MIN 7.1 AC-FT 24,530 a 23,780

a Computed natural flow, in acre-feet.

10287290 RUSH CREEK BELOW AGNEW LAKE, NEAR JUNE LAKE, CALIF.

LOCATION.--Lat 37°45'32", long 119°07'47", in NE¼SW¼ sec.20, T.2 S., R.26 E., Mono County, Inyo National Forest, 500 ft (152 m) downstream from Agnew Lake Dam, and 3.4 mi (5.5 km) southwest of town of June Lake.

DRAINAGE AREA.--23.3 mi² or 60.3 km² (natural flow).

PERIOD OF RECORD.--October 1951 to current year. Monthly and yearly mean discharges prior to October 1969, published in WRD Calif. 1971.

GAGE.--Water-stage recorder and Parshall flume on creek. Altitude of gage is 8,480 ft (2,585 m), from topographic map.

AVERAGE DISCHARGE (Actual flow).--23 years, 55.9 ft³/s (1.583 m³/s), 40,500 acre-ft/yr (49.9 hm³/yr).
(Natural flow).--23 years, 60.8 ft³/s (1.722 m³/s), 44,050 acre-ft/yr (54.3 hm³/yr).

EXTREMES (Actual flow).--Current year: Maximum daily discharge, 398 ft³/s (11.3 m³/s) Aug. 1; minimum daily, 9.1 ft³/s (0.26 m³/s) Oct. 2.
Period of record (1970 to current year): Maximum daily discharge, 398 ft³/s (11.3 m³/s) Aug. 1, 1974; minimum daily, 9.1 ft³/s (0.26 m³/s) Oct. 2, 1973.

REMARKS.--Flow regulated for power development by Waugh, Gem, and Agnew Lakes, combined capacity, 23,420 acre-ft (28.9 hm³) and Rush Creek powerplant. "Actual flow" is total flow of Rush Creek below Agnew Lake and Rush Creek powerplant tailrace. "Natural flow" is the sum of "actual flow", change in contents and evaporation for Waugh, Gem, and Agnew Lakes.

COOPERATION.--Records furnished by Southern California Edison Co. and reviewed by Geological Survey, in connection with a Federal Power Commission project.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	32	52	50	52	48	58	38	93	100	398	94
2	9.1	42	50	56	50	50	64	37	90	99	279	94
3	29	46	48	56	50	56	64	37	93	100	223	94
4	42	45	48	54	50	58	58	37	93	118	184	82
5	40	44	48	52	64	52	62	37	93	137	136	94
6	22	44	48	50	50	52	66	55	93	142	137	94
7	21	44	50	52	50	52	66	87	93	133	114	94
8	13	44	48	48	52	58	66	89	93	123	100	94
9	36	45	48	50	50	52	66	91	93	119	96	94
10	42	44	48	48	50	54	66	91	93	142	96	94
11	42	46	48	48	52	50	64	91	105	131	96	94
12	36	52	48	48	52	46	64	91	111	109	95	67
13	31	47	50	48	54	50	66	92	110	98	95	93
14	31	46	50	48	54	50	66	92	109	96	95	93
15	28	46	50	52	58	50	46	92	105	96	95	93
16	29	46	49	50	50	50	36	92	75	96	95	93
17	30	46	48	48	58	50	48	92	103	96	95	93
18	31	48	49	50	56	50	36	92	103	96	95	68
19	47	46	50	50	50	50	36	92	102	96	95	66
20	65	46	49	50	56	50	38	92	101	96	95	90
21	65	46	49	52	60	50	38	92	102	96	95	92
22	65	48	49	52	54	50	44	93	103	96	89	93
23	65	50	49	52	50	50	38	93	102	84	86	93
24	67	50	49	50	50	50	32	93	101	96	94	93
25	63	46	48	50	50	46	39	93	101	86	94	92
26	64	46	49	50	50	50	39	93	99	96	94	92
27	64	46	49	50	48	50	38	93	99	96	94	93
28	44	44	48	50	50	50	39	93	100	96	94	92
29	53	44	47	50	-----	50	38	91	100	96	94	92
30	63	44	49	50	-----	50	38	90	101	97	94	93
31	33	-----	50	50	-----	50	-----	93	-----	114	94	-----
TOTAL	1,290.1	1,363	1,515	1,564	1,470	1,574	1,519	2,534	2,959	3,276	3,736	2,703
MEAN	41.6	45.4	48.9	50.5	52.5	50.8	50.6	81.7	98.6	106	121	90.1
MAX	67	52	52	56	64	58	66	93	111	142	398	94
MIN	9.1	32	47	48	48	46	32	37	75	84	86	66
AC-FT	2,560	2,700	3,010	3,100	2,920	3,120	3,010	5,030	5,870	6,500	7,410	5,360
(a)	405	1,150	688	724	309	615	1,250	14,260	17,690	7,890	3,650	337
CAL YR 1973	TOTAL 22,180.1	MEAN 60.8	MAX 214	MIN 9.1	AC-FT 43,990	a 45,450						
WTR YR 1974	TOTAL 25,503.1	MEAN 69.9	MAX 398	MIN 9.1	AC-FT 50,590	a 48,970						

a Computed natural flow, in acre-feet.

10287400 RUSH CREEK ABOVE GRANT LAKE, NEAR JUNE LAKE, CALIF.

LOCATION.--Lat 37°48'23", long 119°06'29", in NE¼ sec.4, T.2 S., R.26 E., Mono County, on left bank in narrows, 0.6 mi (1.0 km) upstream from Grant Lake, and 2.7 mi (4.3 km) northwest of town of June Lake.

DRAINAGE AREA.--51.3 mi² (132.8 km²).

PERIOD OF RECORD.--December 1936 to current year. Prior to October 1959 monthly discharge only, published in WSP 1314 and 1734.

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is 7,200 ft (2,195 m), from topographic map.

AVERAGE DISCHARGE.--37 years (1937-74), 81.8 ft³/s (2.32 m³/s), 59,550 acre-ft/yr (73.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 383 ft³/s (10.8 m³/s) Aug. 1 (gage height, 3.26 ft or 0.994 m); minimum daily, 22 ft³/s (0.62 m³/s) Oct. 1, 2.
Period of record: Maximum discharge, 1,070 ft³/s (30.3 m³/s) July 14, 1967 (gage height, 6.20 ft or 1.890 m); minimum daily, 5.5 ft³/s (0.16 m) Sept. 6-8, 14, 1954.

REMARKS.--Records poor. Flow regulated by Gem Lake, Lake Agnew, Waugh Lake, combined capacity, 23,400 acre-ft (28.9 hm³) and by many natural lakes. No diversion above station.

COOPERATION.--Records furnished by city of Los Angeles, Department of Water and Power.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	51	65	66	63	68	78	63	194	153	297	101
2	22	42	63	66	63	79	89	65	187	152	337	101
3	23	46	62	63	63	78	88	72	185	148	262	102
4	37	48	62	71	62	74	84	76	192	155	224	93
5	44	48	62	68	69	70	81	74	197	163	172	97
6	37	48	62	67	69	65	85	86	210	175	164	100
7	32	49	62	68	63	65	86	133	219	168	143	100
8	28	47	61	64	63	70	87	157	209	156	125	99
9	30	47	61	63	63	67	87	171	197	151	118	99
10	43	51	61	63	61	64	86	171	195	164	114	98
11	48	81	58	62	62	63	86	171	206	163	113	98
12	49	119	60	61	63	64	86	171	218	140	112	84
13	43	77	62	60	64	63	86	170	216	125	111	88
14	40	66	61	61	68	64	88	167	215	120	108	97
15	38	63	61	63	65	65	79	171	207	121	108	98
16	37	62	61	70	64	66	63	166	172	124	108	99
17	37	63	60	75	67	67	70	156	185	123	107	98
18	38	69	60	74	64	69	69	151	179	123	107	83
19	41	63	61	77	63	70	63	148	172	121	106	74
20	68	62	60	73	69	71	63	142	164	120	105	87
21	74	59	60	72	69	72	63	138	164	120	105	97
22	75	60	63	70	64	72	70	136	166	123	100	98
23	87	60	61	69	61	72	68	138	168	114	97	98
24	81	62	61	68	61	72	62	139	164	120	101	98
25	75	61	60	66	60	70	60	151	159	120	102	98
26	76	58	59	65	60	72	61	164	152	124	102	98
27	77	57	60	65	60	73	60	191	151	121	102	98
28	68	54	60	65	59	75	60	210	149	120	102	98
29	51	53	63	64	-----	72	60	213	149	119	102	97
30	65	54	65	64	-----	76	60	195	152	125	102	97
31	63	-----	64	63	-----	74	-----	192	-----	139	101	-----
TOTAL	1,549	1,780	1,901	2,071	1,782	2,162	2,228	4,548	5,493	4,210	4,157	2,873
MEAN	50.0	59.3	61.3	66.8	63.6	69.7	74.3	147	183	136	134	95.8
MAX	87	119	65	77	69	79	89	213	219	175	337	102
MIN	22	42	58	60	59	63	60	63	149	114	97	74
AC-FT	3,070	3,530	3,770	4,110	3,530	4,290	4,420	9,020	10,900	8,350	8,250	5,700

CAL YR 1973 TOTAL 32,827 MEAN 89.9 MAX 275 MIN 22 AC-FT 65,110
WTR YR 1974 TOTAL 34,754 MEAN 95.2 MAX 337 MIN 22 AC-FT 68,930

10287900 LEE VINING CREEK NEAR LEE VINING, CALIF.

LOCATION.--Lat 37°55'46", long 119°10'10", in SE¼NW¼SW¼ sec.24, T.1 N., R.25 E., Mono County, on right bank 0.8 mi (1.3 km) upstream from Gibbs Canyon, and 3.3 mi (5.3 km) southwest of Lee Vining.

DRAINAGE AREA.--34.9 mi² (90.4 km²).

PERIOD OF RECORD.--April 1934 to current year. Prior to October 1959 monthly discharge only, published in WSP 1314 and 1734.

GAGE.--Water-stage recorder and partial concrete control. Altitude of gage is 7,400 ft (2,256 m), from topographic map. See WSP 1734 for history of changes prior to Aug. 6, 1944.

AVERAGE DISCHARGE.--40 years, 67.2 ft³/s (1.903 m³/s), 48,690 acre-ft/yr (60.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 373 ft³/s (10.6 m³/s) June 7 (gage height, 3.60 ft or 1.097 m); minimum daily, 16 ft³/s (0.45 m³/s) Oct. 4.

Period of record: Maximum discharge, 590 ft³/s (16.7 m³/s) July 4, 1967 (gage height, 4.42 ft or 1.347 m); no flow Nov. 29, 1935.

REMARKS.--Records poor. Flow regulated for power development by Ellery, Saddlebag, and Tioga Lakes, combined capacity, 13,269 acre-ft (16.4 hm³) and by several small natural lakes. No diversion above station.

COOPERATION.--Records furnished by city of Los Angeles, Department of Water and Power.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	35	37	38	55	25	43	41	261	217	123	58
2	24	38	39	63	37	24	54	49	233	201	118	43
3	17	39	39	66	39	37	43	70	219	194	91	41
4	16	28	39	44	44	43	63	90	266	186	91	65
5	19	42	34	34	44	45	54	84	266	174	91	51
6	29	41	29	33	37	58	50	91	327	168	106	47
7	29	37	31	39	36	63	45	113	363	165	117	56
8	33	37	36	43	44	54	39	150	327	165	98	67
9	22	37	36	48	36	52	32	172	289	161	76	40
10	19	40	36	49	36	42	31	180	310	160	89	35
11	24	63	35	40	42	44	30	178	327	129	91	34
12	40	65	30	46	37	37	37	187	349	92	83	56
13	30	46	36	49	42	35	33	191	339	91	80	62
14	57	37	38	50	42	35	31	183	332	100	71	57
15	55	42	38	46	39	42	28	191	327	125	70	35
16	30	40	38	63	39	49	37	170	318	146	69	32
17	29	37	39	50	37	40	56	152	284	153	63	34
18	28	40	31	43	37	43	33	123	246	132	59	34
19	34	37	31	50	37	43	33	100	217	134	59	38
20	41	40	29	54	35	43	54	84	176	132	58	40
21	42	37	34	55	44	42	43	58	169	112	62	43
22	38	37	40	55	41	40	54	56	190	120	56	46
23	34	37	36	53	38	40	34	80	229	135	56	45
24	52	40	29	50	34	43	34	120	217	119	61	40
25	29	37	31	50	41	58	39	144	169	129	69	40
26	31	32	36	58	43	31	50	208	164	165	56	40
27	42	31	44	55	38	48	45	278	162	150	56	36
28	48	31	34	54	35	49	32	320	159	138	56	29
29	42	34	36	49	-----	43	32	327	200	134	56	28
30	35	44	31	53	-----	51	34	267	202	132	56	28
31	35	-----	36	54	-----	45	-----	255	-----	129	56	-----
TOTAL	1,037	1,181	1,088	1,534	1,109	1,344	1,223	4,712	7,637	4,488	2,343	1,300
MEAN	33.5	39.4	35.1	49.5	39.6	43.4	40.8	152	255	145	75.6	43.3
MAX	57	65	44	66	55	63	63	327	363	217	123	67
MIN	16	28	29	33	34	24	28	41	159	91	56	28
AC-FT	2,060	2,340	2,160	3,040	2,200	2,670	2,430	9,350	15,150	8,900	4,650	2,580

CAL YR 1973 TOTAL 26,095 MEAN 71.5 MAX 317 MIN 16 AC-FT 51,760
WTR YR 1974 TOTAL 28,996 MEAN 79.4 MAX 363 MIN 16 AC-FT 57,510

11012000 COTTONWOOD CREEK ABOVE TECATE CREEK, NEAR DULZURA, CALIF.

LOCATION.--Lat 32°34'30", long 116°45'11", in NW¼NW¼SW¼ sec.26, T.18 S., R.2 E., San Diego County, on right bank 0.8 mi (1.3 km) upstream from confluence with Tecate Creek, and 5.1 mi (8.2 km) south of Dulzura.

DRAINAGE AREA.--310 mi² (803 km²).

PERIOD OF RECORD.--October 1936 to current year.

GAGE.--Water-stage recorder. Datum of gage is 569.40 ft (173.553 m) above mean sea level (levels by International Boundary and Water Commission).

AVERAGE DISCHARGE.--38 years, 6.15 ft³/s (0.174 m³/s), 4,460 acre-ft/yr (5.50 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 6.8 ft³/s (0.19 m³/s) Jan. 8 (gage height, 2.12 ft or 0.646 m); no flow most of year.
Period of record: Maximum discharge, 4,340 ft³/s (123 m³/s) Feb. 7, 1937 (gage height, 9.65 ft or 2.941 m), from rating curve extended above 1,500 ft³/s (42.5 m³/s); no flow for part of each year.

REMARKS.--Records good except those above 3 ft³/s (0.085 m³/s), which are poor. Flow regulated by Morena Reservoir, capacity, 50,210 acre-ft (61.9 hm³) and Barrett Reservoir, capacity, 44,760 acre-ft (55.2 hm³). Water released from Barrett Reservoir through Dulzura conduit is diverted to Lower Otay Reservoir.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	.10	.06	.03					
2				0	.09	.16	.16					
3				0	.08	.26	.16					
4				0	.07	.23	.07					
5				.08	.07	.14	0					
6				0	.04	.10	0					
7				.70	.04	.18	0					
8				4.2	.04	.82	0					
9				1.9	.03	.47	0					
10				1.2	.03	.26	0					
11				.94	.04	.20	0					
12				.76	.06	.16	0					
13				.60	.06	.14	0					
14				.55	.06	.14	0					
15				.47	.06	.12	0					
16				.43	.07	.10	0					
17				.35	.12	.09	0					
18				.35	.14	.09	0					
19				.29	.10	.09	0					
20				.29	.10	.10	0					
21				.26	.08	.10	0					
22				.23	.07	.12	0					
23				.20	.07	.12	0					
24				.18	.04	.10	0					
25				.16	.02	.09	0					
26				.16	.01	.08	0					
27				.16	.02	.18	0					
28				.14	.05	.26	0					
29				.12	-----	.12	0					
30				.12	-----	.08	0					
31		-----		.10	-----	.05	-----		-----			-----
TOTAL	0	0	0	14.94	1.76	5.21	.42	0	0	0	0	0
MEAN	0	0	0	.48	.063	.17	.014	0	0	0	0	0
MAX	0	0	0	4.2	.14	.82	.16	0	0	0	0	0
MIN	0	0	0	0	.01	.05	0	0	0	0	0	0
AC-FT	0	0	0	30	3.5	10	.8	0	0	0	0	0
CAL YR 1973	TOTAL	693.51	MEAN	1.90	MAX	60	MIN	0	AC-FT	1,380		
WTR YR 1974	TOTAL	22.33	MEAN	.06	MAX	4.2	MIN	0	AC-FT	44		

11012500 CAMPO CREEK NEAR CAMPO, CALIF.

LOCATION.--Lat 32°35'28", long 116°31'29", in SW¼NE¼SE¼ sec.24, T.18 S., R.4 E., San Diego County, on left bank just upstream from bridge on State Highway 94, 3.5 mi (5.6 km) southwest of Campo.

DRAINAGE AREA.--85.0 mi² (220.2 km²), of which 3 mi² (8 km²) are in Mexico.

PERIOD OF RECORD.--October 1936 to current year.

GAGE.--Water-stage recorder and broad-crested weir. Datum of gage is 2,178.92 ft (664.135 m) above mean sea level. Prior to Dec. 1, 1954, at datum 1 ft (0.3 m) higher.

AVERAGE DISCHARGE.--38 years, 1.67 ft³/s (0.0473 m³/s), 1,210 acre-ft/yr (1.49 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 9.9 ft³/s (0.28 m³/s) July 19 (gage height, 1.78 ft or 0.543 m); no flow for part of year.

Period of record: Maximum discharge, 880 ft³/s (24.9 m³/s) Feb. 6, 1937 (gage height, 4.80 ft or 1.463 m, present datum), from rating curve extended above 110 ft³/s (3.12 m³/s) on basis of velocity mean-depth relation and cross-sectional area at control; no flow for part of most years.

REMARKS.--Records good. Flow partly regulated by small conservation reservoir since August 1956. No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.01	.06	.02	.05	.09	.06	.03	.05	.05	.02
2		0	.01	.02	.02	.07	.11	.07	.03	.05	.05	.02
3		0	.01	.02	.02	.07	.09	.08	.03	.04	.05	.02
4		0	.01	.05	.02	.06	.07	.09	.05	.05	.04	.02
5		0	.01	.07	.02	.06	.05	.10	.05	.04	.04	.02
6		0	.01	.05	.02	.06	.05	.09	.07	.04	.03	.02
7		0	.01	.11	.03	.06	.08	.09	.08	.04	.03	.02
8		0	.01	.12	.03	.10	.06	.10	.06	.04	.03	.02
9		0	.01	.05	.03	.07	.06	.09	.06	.04	.02	.02
10		0	.02	.05	.03	.07	.06	.08	.06	.04	.02	.01
11		0	.02	.05	.03	.07	.06	.07	.06	.04	.02	.01
12		0	.02	.04	.03	.07	.05	.07	.04	.04	.02	.01
13		0	.02	.03	.03	.07	.04	.06	.04	.03	.02	.01
14		0	.03	.03	.03	.07	.04	.06	.03	.03	.02	0
15		0	.03	.04	.03	.07	.05	.06	.03	.03	.02	0
16		0	.03	.04	.03	.07	.06	.05	.04	.02	.02	0
17		0	.03	.05	.05	.07	.05	.05	.05	.02	.01	0
18		.02	.03	.03	.05	.08	.05	.05	.05	.02	.01	0
19		.01	.03	.03	.05	.08	.05	.05	.05	.02	.01	0
20		0	.03	.03	.05	.08	.05	.05	.05	.11	.02	0
21		0	.03	.03	.03	.09	.04	.05	.04	.07	.02	0
22		0	.05	.03	.03	.09	.04	.03	.05	.06	.02	0
23		.02	.05	.03	.03	.09	.04	.03	.04	.06	.01	0
24		.01	.05	.03	.03	.09	.05	.03	.05	.05	.01	.01
25		.01	.05	.03	.03	.09	.06	.03	.05	.05	.01	.01
26		.01	.05	.03	.03	.11	.06	.03	.03	.04	.02	.01
27		.01	.05	.03	.03	.11	.06	.03	.03	.04	.02	.01
28		.01	.07	.03	.05	.08	.06	.03	.03	.06	.02	0
29		.01	.07	.03	-----	.08	.06	.03	.03	.08	.02	0
30		0	.07	.02	-----	.07	.06	.03	.04	.06	.02	0
31		-----	.07	.02	-----	.08	-----	.03	-----	.05	.02	-----
TOTAL	0	.11	.99	1.29	.88	2.38	1.75	1.77	1.35	2.01	.72	.26
MEAN	0	.004	.032	.042	.031	.077	.058	.057	.045	.065	.023	.009
MAX	0	.02	.07	.12	.05	.11	.11	.10	.08	.02	.05	.02
MIN	0	0	.01	.02	.02	.05	.04	.03	.03	.02	.01	0
AC-FT	0	.2	2.0	2.6	1.7	4.7	3.5	3.5	2.7	4.0	1.4	.5

CAL YR 1973 TOTAL 18.34 MEAN .050 MAX .22 MIN 0 AC-FT 36
 WTR YR 1974 TOTAL 13.51 MEAN .037 MAX .02 MIN 0 AC-FT 27

PEAK DISCHARGE (BASE, 20 FT³/S).--No peak above base.

TIJUANA RIVER BASIN

11013000 TIJUANA RIVER NEAR DULZURA, CALIF.

LOCATION.--Lat 32°33'56", long 116°46'27", in E½ sec.33, T.18 S., R.2 E., San Diego County, on left bank 0.5 mi (0.8 km) downstream from confluence of Cottonwood and Tecate Creeks, and 5.5 mi (8.8 km) south of Dulzura.

DRAINAGE AREA.--481 mi² (1,246 km²), of which 70 mi² (181 km²) are in Mexico.

PERIOD OF RECORD.--October 1936 to current year.

GAGE.--Water-stage recorder. Datum of gage is 542.42 ft (165.330 m) above mean sea level (levels by International Boundary and Water Commission). Prior to Sept. 19, 1939, at datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE.--38 years, 9.87 ft³/s (0.280 m³/s), 7,150 acre-ft/yr (8.82 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 29 ft³/s (0.82 m³/s) July 30 (gage height, 3.11 ft or 0.948 m); no flow July 16-29.

Period of record: Maximum discharge, 4,700 ft³/s (133 m³/s) Feb. 7, 1937 (gage height, 8.50 ft or 2.591 m, present datum), from rating curve extended above 300 ft³/s (8.50 m³/s) on basis of velocity, mean-depth, and area studies; no flow for part of most years.

REMARKS.--Records good except those above 3 ft³/s (0.085 m³/s), which are poor. Flow regulated by Morena Reservoir, capacity, 50,210 acre-ft (61.9 hm³) and Barrett Reservoir, capacity, 44,760 acre-ft (55.2 hm³). Water diverted from Cottonwood Creek at Barrett Dam by Dulzura conduit to Jamul Creek.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.12	.55	1.0	2.2	1.8	1.8	1.5	.39	.18	.12	.25	.11
2	.10	.50	.94	2.0	1.8	1.9	1.8	.39	.15	.10	.20	.10
3	.10	.48	1.0	2.0	1.8	2.0	1.8	.34	.15	.05	.18	.12
4	.10	.47	1.0	2.2	1.4	1.9	2.1	.34	.18	.05	.17	.12
5	.10	.49	1.2	2.4	1.4	1.8	2.0	.39	.18	.07	.16	.11
6	.12	.48	1.3	2.0	1.3	1.8	2.0	.29	.18	.07	.15	.12
7	.12	.44	1.3	2.5	1.3	1.9	2.0	.29	.21	.04	.14	.12
8	.15	.44	1.2	6.2	1.2	2.4	1.9	.29	.21	.03	.14	.12
9	.18	.56	1.2	4.4	1.1	2.4	1.8	.29	.21	.03	.13	.12
10	.21	.56	1.4	3.1	1.2	2.2	1.8	.29	.23	.04	.13	.11
11	.21	.56	1.4	2.9	1.2	1.9	1.8	.29	.25	.05	.12	.11
12	.29	.56	1.4	2.6	1.2	1.8	1.8	.29	.22	.05	.13	.12
13	.29	.56	1.5	2.7	1.3	1.9	1.8	.29	.21	.03	.12	.12
14	.34	.56	1.5	2.4	1.5	1.9	1.6	.29	.23	.02	.12	.12
15	.37	.69	1.6	2.4	1.5	1.9	1.5	.29	.20	.01	.11	.12
16	.40	.69	1.6	2.4	1.6	1.9	1.2	.29	.14	0	.11	.12
17	.42	.77	1.6	2.4	1.8	1.9	.69	.29	.18	0	.11	.12
18	.43	1.1	1.6	2.4	1.8	1.6	.56	.25	.19	0	.14	.11
19	.43	1.0	1.6	2.4	1.8	1.5	.56	.25	.21	0	.14	.11
20	.46	.94	1.6	2.4	1.9	1.5	.56	.25	.25	0	.13	.11
21	.50	1.0	1.8	2.0	1.9	1.8	.50	.21	.25	0	.13	.11
22	.51	1.0	1.8	1.9	1.8	1.6	.44	.18	.21	0	.14	.10
23	.46	1.4	1.8	2.0	1.8	1.5	.44	.21	.18	0	.14	.10
24	.50	1.2	1.8	2.0	1.7	1.8	.44	.21	.12	0	.14	.12
25	.50	1.2	1.8	2.0	1.6	1.6	.44	.15	.15	0	.13	.12
26	.56	1.3	1.8	2.0	1.6	1.5	.50	.15	.12	0	.12	.14
27	.56	1.2	1.8	2.0	1.5	1.9	.50	.18	.10	0	.11	.14
28	.56	1.1	1.9	1.8	1.6	1.9	.50	.18	.10	0	.11	.13
29	.56	1.0	2.0	1.8	-----	1.8	.50	.18	.12	0	.12	.13
30	.50	1.0	2.0	1.8	-----	1.7	.44	.18	.12	7.0	.12	.13
31	.50	-----	2.0	1.8	-----	1.6	-----	.18	-----	.40	.12	-----
TOTAL	10.65	23.80	47.44	75.1	43.4	56.6	35.47	8.09	5.43	8.16	4.26	3.53
MEAN	.34	.79	1.53	2.42	1.55	1.83	1.18	.26	.18	.26	.14	.12
MAX	.56	1.4	2.0	6.2	1.9	2.4	2.1	.39	.25	7.0	.25	.14
MIN	.10	.44	.94	1.8	1.1	1.5	.44	.15	.10	0	.11	.10
AC-FT	21	47	94	149	86	112	70	16	11	16	8.4	7.0

CAL YR 1973 TOTAL 1,705.63 MEAN 4.67 MAX 195 MIN .04 AC-FT 3,380
WTR YR 1974 TOTAL 321.93 MEAN .88 MAX 7.0 MIN 0 AC-FT 639

11013200 RODRIGUEZ RESERVOIR AT RODRIGUEZ DAM, BAJA CALIFORNIA, MEXICO

LOCATION.--Lat 32°26'40", long 116°54'25", Baja California, Mexico, at Rodriguez Dam on Rio de las Palmas, 0.2 mi (0.3 km) upstream from Arroyo Matanuco, and 10 mi (16 km) southeast of Tijuana.

DRAINAGE AREA.--977 mi² (2,530 km²), of which 10 mi² (26 km²) are in the United States.

PERIOD OF RECORD.--April 1937 to current year. Published with record for Tijuana River near Nestor, Calif., October 1953 to September 1957. Monthend contents for April 1937 to September 1950 published in WSP 1315-B and for October 1950 to September 1960 in WSP 1735.

GAGE.--Nonrecording gage read once a day. Datum of gage is at mean sea level (levels by National Irrigation Commission, Mexico).

EXTREMES.--Current year: Maximum contents, 3,740 acre-ft (4.61 hm³) May 11-27; minimum, 2,880 acre-ft (3.55 hm³) Nov. 6-17.

Period of record: Reservoir spilled during March 1938, September 1940, February to May 1941, March 1942, and February, March 1944; reservoir dry Apr. 2, 1964, to Apr. 9, 1965, Aug. 21 to Nov. 22, 1965.

REMARKS.--Reservoir is formed by thin-shell concrete-arch dam completed in 1936; storage began in 1937. Capacity table is based on surveys made in 1927. Maximum storage at crest of spillway gates, elevation, 410.10 ft (124.998 m), 111,070 acre-ft (137 hm³); at spillway lip, elevation, 380.08 ft (115.848 m), 74,580 acre-ft (92.0 hm³); dead storage below outlet, elevation, 267.39 ft (81.500 m), 1,650 acre-ft (2.03 hm³) included in contents. Reservoir stores water for irrigation of 3,000 acres (12.1 km²) on both banks 0.5 to 5.5 mi (0.8 to 8.8 km) downstream and municipal supply for city of Tijuana. Since August 1972 Colorado River water diverted through Otay aqueduct into the reservoir for Tijuana emergency use; this year 1,740 acre-ft (2.15 hm³) was imported.

COOPERATION.--Records furnished by Ministry of Hydraulic Resources, Government of Mexico, through International Boundary and Water Commission, United States section.

MONTHEND CONTENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Contents (acre- feet)	Change in contents (acre- feet)
Sept. 30.....	2,900	--
Oct. 31.....	2,890	-10
Nov. 30.....	2,920	+30
Dec. 31.....	3,050	+130
CAL YR 1973.....	--	+2,492
Jan. 31.....	3,300	+250
Feb. 28.....	3,430	+130
Mar. 31.....	3,640	+210
Apr. 30.....	3,700	+60
May 31.....	3,710	+10
June 30.....	3,610	-100
July 31.....	3,530	-80
Aug. 31.....	3,510	-20
Sept. 30.....	3,580	+70
WTR YR 1974.....	--	+680

TIJUANA RIVER BASIN

11013500 TIJUANA RIVER NEAR NESTOR, CALIF.

LOCATION.--Lat 32°33'06", long 117°05'00", on line between secs.3 and 4, T.19 S., R.2 W., San Diego County, on downstream side of county highway bridge, 1.7 mi (2.7 km) south of Nestor, and 2.9 mi (4.7 km) upstream from mouth.

DRAINAGE AREA.--1,695 mi² (4,390 km²), of which 1,236 mi² (3,201 km²) are in Mexico.

PERIOD OF RECORD.--October 1914 to September 1915, October 1936 to current year.

GAGE.--Water-stage recorder. Datum of gage is 15.14 ft (4.615 m) above mean sea level. See WSP 1735 for history of changes prior to Aug. 5, 1958.

AVERAGE DISCHARGE.--39 years, 28.8-ft³/s (0.816 m³/s), 20,870 acre-ft/yr (25.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 32 ft³/s (0.91 m³/s) Jan. 8 (gage height, 3.15 ft or 0.960 m); no flow most of year.

Period of record (1936 to current year): Maximum discharge, 17,700 ft³/s (501 m³/s) Feb. 7, 1937 (gage height, 8.20 ft or 2.499 m, datum then in use), from rating curve extended above 2,000 ft³/s (56.6 m³/s) on basis of velocity-depth relation and cross section after peak; no flow parts of each year.

REMARKS.--Records good. Flow regulated by Morena Reservoir, capacity, 50,210 acre-ft (61.9 hm³) and Barrett Reservoir, capacity, 44,760 acre-ft (55.2 hm³) in the United States, and Rodriguez Reservoir (see sta 11013200) in Mexico. Water diverted from Cottonwood Creek at Barrett Dam by Dulzura conduit to Jamul Creek. AVERAGE DISCHARGE represents flow to the ocean regardless of upstream development. Records of sediment discharge for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0		0						
2				0		0						
3				0		0						
4				0		0						
5				5.2		0						
6				0		0						
7				.27		0						
8				16		5.2						
9				.67		.03						
10				0		0						
11				0		0						
12				0		0						
13				0		0						
14				0		0						
15				0		0						
16				0		0						
17				0		0						
18				0		0						
19				0		0						
20				0		0						
21				0		0						
22				0		0						
23				0		0						
24				0		0						
25				0		0						
26				0		0						
27				0		0						
28				0		0						
29				0	-----	0						
30				0	-----	0						
31		-----		0	-----	0	-----		-----			-----
TOTAL	0	0	0	22.14	0	5.23	0	0	0	0	0	0
MEAN	0	0	0	.71	0	.17	0	0	0	0	0	0
MAX	0	0	0	16	0	5.2	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	44	0	10	0	0	0	0	0	0

CAL YR 1973 TOTAL 33.47 MEAN .092 MAX 11 MIN 0 AC-FT 66
WTR YR 1974 TOTAL 27.37 MEAN .075 MAX 16 MIN 0 AC-FT 54

11014000 JAMUL CREEK NEAR JAMUL, CALIF.

LOCATION.--Lat 32°38'15", long 116°53'00", in NE¼ sec.4, T.18 S., R.1 E., San Diego County, on right bank 300 ft (91 m) upstream from county road crossing at upper end of Lower Otay Reservoir, 1.4 mi (2.3 km) downstream from Dulzura Creek, and 5.5 mi (8.8 km) south of Jamul.

DRAINAGE AREA.--70.2 mi² (181.8 km²).

PERIOD OF RECORD.--April 1940 to current year.

GAGE.--Water-stage recorder and broad-crested weir control with low-water Parshall flume. Datum of gage is 511.64 ft (155.948 m) above mean sea level. Prior to Oct. 1, 1951, at datum 1.00 ft (0.305 m) higher.

EXTREMES.--Current year: Maximum discharge, 22 ft³/s (0.62 m³/s) Mar. 31, estimated from release at Barrett Dam, furnished by city of San Diego; no flow Oct. 1 to Jan. 5, Apr. 26 to Sept. 30.

Period of record: Maximum discharge, 4,000 ft³/s (113 m³/s) Dec. 1, 1947 (gage height, 6.42 ft or 1.957 m, present datum), from rating curve extended above 1,200 ft³/s (34.0 m³/s); no flow at times in some years.

REMARKS.--Records fair. No regulation above station. Water diverted from Cottonwood Creek by Dulzura conduit discharges into Jamul Creek via Dulzura Creek and is included in discharge for this station (see sta 11012000).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	.04	.04	18					
2				0	.04	.04	16					
3				0	.04	.04	14					
4				0	.04	.04	10					
5				.50	.04	.04	7.6					
6				.16	.04	.04	5.8					
7				.55	.04	.04	4.6					
8				3.9	.04	.72	3.6					
9				1.0	.04	.31	2.9					
10				.62	.04	.16	2.0					
11				.46	.04	.11	1.1					
12				.36	.04	.10	.69					
13				.27	.04	.10	.48					
14				.20	.04	.08	.31					
15				.16	.04	.08	.20					
16				.16	.04	.06	.15					
17				.15	.10	.06	.13					
18				.10	.12	.06	.10					
19				.10	.10	.04	.10					
20				.10	.10	.04	.10					
21				.16	.10	.04	.08					
22				.12	.08	8.0	.06					
23				.10	.07	20	.05					
24				.10	.06	19	.04					
25				.08	.05	18	.02					
26				.07	.04	17	0					
27				.08	.04	16	0					
28				.07	.04	15	0					
29				.06	-----	14	0					
30				.05	-----	13	0					
31		-----		.04	-----	16	-----		-----			-----
TOTAL	0	0	0	9.72	1.54	158.24	88.11	0	0	0	0	0
MEAN	0	0	0	.31	.055	5.10	2.94	0	0	0	0	0
MAX	0	0	0	3.9	.12	20	18	0	0	0	0	0
MIN	0	0	0	0	.04	.04	0	0	0	0	0	0
AC-FT	0	0	0	19	3.1	314	175	0	0	0	0	0
CAL YR 1973	TOTAL	4,561.09	MEAN	12.5	MAX	122	MIN	0	AC-FT	9,050		
WTR YR 1974	TOTAL	257.61	MEAN	.71	MAX	20	MIN	0	AC-FT	511		

NOTE.--No gage-height record Mar. 13 to Apr. 4.

OTAY RIVER BASIN

11014550 LOWER OTAY RESERVOIR NEAR CHULA VISTA, CALIF.

LOCATION.--Lat 32°36'35", long 116°55'35", in NW¼NW¼ sec.18, T.18 S., R.1 E., San Diego County, on upstream face 200 ft (61 m) from right end of Savage Dam on Otay River, and 9 mi (14 km) east of Chula Vista.

DRAINAGE AREA.--99.0 mi² (256.4 km²).

PERIOD OF RECORD.--October 1945 to September 1959 published with Otay River at Savage Dam (sta 11014500). October 1972 to current year. Records of monthend gage heights October 1936 to September 1945, in files of San Diego County Department of Sanitation and Flood Control.

GAGE.--Water-stage recorder. Datum of gage is 397.20 ft (121.067 m) above mean sea level; gage readings have been reduced to elevations above mean sea level. Prior to Oct. 1, 1972, nonrecording gage at different site at datum 50.00 ft (15.240 m) lower.

EXTREMES.--Current year: Maximum contents observed, 11,620 acre-ft (14.3 hm³) Oct. 1 (elevation, 433.59 ft or 132.158 m); minimum, 5,850 acre-ft (7.21 hm³) Sept. 30 (elevation, 418.10 ft or 127.437 m).
Period of record (1945-59, 1972 to current year): Maximum contents, 48,200 acre-ft (59.4 hm³) Oct. 31, 1945 (elevation, 493.87 ft or 150.532 m); minimum, 3,160 acre-ft (3.90 hm³) Dec. 31, 1951 (elevation, 407.56 ft or 124.224 m).

REMARKS.--Reservoir is formed by gravity section cyclopean concrete and masonry dam, built in 1919. Capacity from Geological Survey table dated Apr. 3, 1956. Maximum capacity at top of spillway gates, 56,520 acre-ft (69.7 hm³), elevation, 490.70 ft (149.565 m). Capacity at permanent spillway level, 49,510 acre-ft (61.0 hm³), elevation, 484.70 ft (147.737 m). Dead storage below lowest outlet, 1,150 acre-ft (1.42 hm³), elevation, 395.05 ft (120.411 m). Dulzura conduit carries water from Barrett Reservoir on Cottonwood Creek to Dulzura Creek, where water is carried to the reservoir by Jamul Creek (11014000). Reservoir storage includes supplemental Colorado River water. Small diversions for local use near reservoir. Water used for municipal supply by city of San Diego.

COOPERATION.--Gage heights furnished by San Diego County Department of Sanitation and Flood Control.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet) ^a	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	433.60	11,620	--
Oct. 31.....	432.25	11,040	-580
Nov. 30.....	430.91	10,470	-570
Dec. 31.....	429.78	10,010	-460
CAL YR 1973.....	--	--	+3,810
Jan. 31.....	429.02	9,700	-310
Feb. 28.....	427.62	9,150	-550
Mar. 31.....	427.46	9,090	-60
Apr. 30.....	427.01	8,920	-170
May 31.....	425.88	8,490	-430
June 30.....	424.23	7,890	-600
July 31.....	422.20	7,180	-710
Aug. 31.....	419.78	6,380	-800
Sept. 30.....	418.10	5,850	-530
WTR YR 1974.....	--	--	-5,770

^a Elevation at 0800.

11015000 SWEETWATER RIVER NEAR DESCANSO, CALIF.

LOCATION.--Lat 32°50'05", long 116°37'20", in NW¼SE¼ sec.25, T.15 S., R.3 E., San Diego County, on right bank at county road bridge, 0.7 mi (1.1 km) downstream from unnamed tributary, and 1.3 mi (2.1 km) south of Descanso.

DRAINAGE AREA.--45.4 mi² (117.6 km²).

PERIOD OF RECORD.--October 1905 to September 1927, October 1956 to current year. Monthly discharge only for October to December 1905, January to February 1916, February, March, June to September 1927, published in WSP 1315-B. Combined records of river and diversion, October 1956 to current year.

GAGE.--Water-stage recorder on river; water-stage recorder on concrete diversion. Datum of gage is 3,269.24 ft (996.464 m) above mean sea level. Prior to June 25, 1927, nonrecording gages at several sites within 0.1 mi (0.2 km) upstream at various datums.

AVERAGE DISCHARGE (Creek only).--40 years, 10.3 ft³/s (0.292 m³/s), 7,450 acre-ft/yr (9.19 hm³/yr).
(Combined).--18 years, 3.84 ft³/s (0.109 m³/s), 2,780 acre-ft/yr (3.4 hm³/yr).

EXTREMES (Creek only).--Current year: Maximum discharge, 30 ft³/s (0.85 m³/s) Jan. 8 (gage height, 4.08 ft or 1.244 m), from rating curve extended above 80 ft³/s (2.27 m³/s); no flow many days.

Period of record: Maximum discharge, 11,200 ft³/s (317 m³/s) Feb. 16, 1927 (gage height, 13.2 ft or 4.023 m, from floodmarks, site and datum then in use), on basis of slope-area measurement of maximum flow; no flow many days in most years.

(Combined).--Current year: Maximum discharge, 30 ft³/s (0.85 m³/s) Jan. 8; no flow many days.

Period of record: Maximum discharge, 3,890 ft³/s (110 m³/s) Dec. 6, 1966; no flow many days in each year.

REMARKS.--Records good. No regulation above station. Sweetwater River diversion diverts 0.3 mi (0.5 km) above station for irrigation below. For records of combined discharge of river and diversion, see following page.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.25	.58	1.8	1.7	1.3	1.1	.79	.37	.01		
2	0	.29	.65	1.2	1.5	1.9	6.4	.72	.37	.01		
3	0	.33	.58	1.0	1.4	2.8	5.1	.72	.37	.02		
4	0	.33	.52	2.2	1.4	2.6	3.4	.79	.37	.01		
5	0	.33	.52	5.9	1.4	2.0	2.3	.87	.37	.01		
6	0	.33	.52	3.0	1.3	1.8	2.2	.95	.37	0		
7	0	.33	.52	6.7	1.2	1.8	1.9	.87	.37	0		
8	0	.33	.58	22	1.3	6.6	1.7	.79	.37	0		
9	0	.33	.58	10	1.1	4.0	1.7	.72	.37	0		
10	0	.33	.65	5.9	1.2	2.8	1.7	.72	.33	0		
11	0	.33	.72	4.6	1.2	2.6	1.5	.65	.33	.02		
12	.05	.33	.72	3.6	1.3	2.3	1.4	.65	.29	.01		
13	.09	.33	.79	2.8	1.4	2.2	1.3	.65	.29	0		
14	.08	.33	.87	2.5	1.3	2.0	1.2	.65	.29	0		
15	.09	.33	.87	2.3	1.3	1.9	1.2	.65	.25	0		
16	.09	.33	.79	2.3	1.3	1.7	1.1	.65	.25	0		
17	.09	.47	.87	2.3	1.7	1.5	1.1	.58	.25	0		
18	.09	2.2	.87	3.4	1.7	1.5	1.1	.58	.29	0		
19	.11	.95	.79	3.0	1.7	1.4	1.1	.72	.29	0		
20	.14	.65	.79	2.8	1.8	1.3	1.2	.65	.29	0		
21	.16	.52	.87	4.2	1.4	1.3	1.1	.58	.25	0		
22	.19	.52	.95	3.8	1.4	1.3	1.0	.58	.25	0		
23	.22	1.2	.95	3.0	1.3	1.3	1.0	.58	.16	0		
24	.22	.65	.95	2.6	1.2	1.3	.95	.58	.14	0		
25	.22	.65	.95	2.3	1.1	1.1	.95	.52	.11	0		
26	.22	.79	.95	2.3	1.2	1.1	.95	.47	.04	0		
27	.19	.58	.95	2.2	1.2	1.4	.95	.37	.03	0		
28	.19	.52	1.0	1.9	1.2	1.2	.95	.37	.01	0		
29	.22	.52	1.0	1.9	-----	.95	.87	.37	0	0		
30	.22	.52	1.0	1.8	-----	.95	.79	.37	0	0		
31	.22	-----	1.0	1.7	-----	1.2	-----	.42	-----	0		-----
TOTAL	3.10	15.90	24.35	117.0	38.2	59.10	49.21	19.58	7.47	.09	0	0
MEAN	.10	.53	.79	3.77	1.36	1.91	1.64	.63	.25	.003	0	0
MAX	.22	2.2	1.0	22	1.8	6.6	6.4	.95	.37	.02	0	0
MIN	0	.25	.52	1.0	1.1	.95	.79	.37	0	0	0	0
AC-FT	6.1	32	48	232	76	117	98	39	15	.2	0	0

CAL YR 1973 TOTAL 3,572.72 MEAN 9.79 MAX 175 MIN 0 AC-FT 7,090
WTR YR 1974 TOTAL 334.00 MEAN .92 MAX 22 MIN 0 AC-FT 662

PEAK DISCHARGE (BASE, 100 FT³/S).--No peak above base,

SWEETWATER RIVER BASIN

11015000 SWEETWATER RIVER NEAR DESCANSO, CALIF.--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF SWEETWATER RIVER AND
SWEETWATER DIVERSION NEAR DESCANSO, CALIF., WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.25	.54	1.3	1.7	1.3	1.1	.79	.37	.01		
2	.05	.29	.65	1.2	1.5	1.9	6.4	.72	.37	.01		
3	.06	.33	.58	1.0	1.4	2.8	5.1	.72	.37	.02		
4	.06	.33	.52	2.2	1.4	2.6	3.4	.79	.37	.01		
5	.07	.33	.52	5.9	1.4	2.0	2.3	.87	.37	.01		
6	.04	.33	.52	3.0	1.3	1.8	2.2	.95	.37	0		
7	.04	.33	.52	6.7	1.2	1.8	1.9	.87	.37	0		
8	.12	.33	.58	22	1.3	6.6	1.7	.79	.37	0		
9	.10	.33	.58	10	1.1	4.0	1.7	.72	.37	0		
10	.10	.33	.65	5.9	1.2	2.8	1.7	.72	.33	0		
11	.10	.33	.72	4.6	1.2	2.6	1.5	.65	.33	.02		
12	.10	.33	.72	3.6	1.3	2.3	1.4	.65	.29	.01		
13	.04	.33	.74	2.8	1.4	2.2	1.3	.65	.29	0		
14	.04	.33	.87	2.5	1.3	2.0	1.2	.65	.29	0		
15	.04	.33	.87	2.3	1.3	1.9	1.2	.65	.25	0		
16	.04	.33	.79	2.3	1.3	1.7	1.1	.65	.25	0		
17	.04	.47	.87	2.3	1.7	1.5	1.1	.58	.25	0		
18	.04	2.2	.87	3.4	1.7	1.5	1.1	.58	.29	0		
19	.11	.95	.79	3.0	1.7	1.4	1.1	.72	.29	0		
20	.14	.65	.79	2.8	1.6	1.3	1.2	.65	.29	0		
21	.16	.52	.87	4.2	1.4	1.3	1.1	.58	.25	0		
22	.17	.52	.95	3.8	1.4	1.3	1.0	.58	.25	0		
23	.22	1.2	.95	3.0	1.3	1.3	1.0	.58	.16	0		
24	.22	.65	.95	2.6	1.2	1.3	.95	.58	.14	0		
25	.22	.65	.95	2.3	1.1	1.1	.95	.52	.11	0		
26	.22	.79	.95	2.3	1.2	1.1	.95	.47	.04	0		
27	.14	.58	.95	2.2	1.2	1.4	.95	.37	.03	0		
28	.14	.52	1.0	1.4	1.2	1.2	.95	.37	.01	0		
29	.22	.52	1.0	1.4	-----	.95	.87	.37	0	0		
30	.22	.52	1.0	1.4	-----	.95	.79	.37	0	0		
31	.22	-----	1.0	1.7	-----	1.2	-----	.42	-----	0		-----
TOTAL	4.02	15.90	24.35	117.0	38.2	59.10	49.21	19.58	7.47	.09	0	0
MEAN	.13	.53	.79	3.77	1.36	1.91	1.64	.63	.25	.003	0	0
MAX	.22	2.2	1.0	22	1.8	6.6	6.4	.95	.37	.02	0	0
MIN	.04	.25	.52	1.0	1.1	.95	.79	.37	0	0	0	0
AC-FT	8.0	32	48	232	70	117	98	39	15	.2	0	0

CAL YR 1973 TOTAL 3,588.80 MEAN 7.83 MAX 175 MIN 0 AC-FT 7,120

WTR YR 1974 TOTAL 334.92 MEAN .92 MAX 22 MIN 0 AC-FT 664

PEAK DISCHARGE (BASE, 100 FT³/S).--No peak above base.

11016550 SWEETWATER RESERVOIR NEAR NATIONAL CITY, CALIF.

LOCATION.--Lat 32°41'20", long 117°00'35", San Diego County, in La Nacion Grant, at Sweetwater Dam on Sweetwater River, 6 mi (10 km) east of National City, and 8 mi (13 km) upstream from mouth.

DRAINAGE AREA.--182 mi² (471 km²).

PERIOD OF RECORD.--October 1943 to September 1966 published with Sweetwater River at Sweetwater Dam (sta 11016500). October 1972 to current year. Records of monthend gage heights October 1891 to September 1943, in files of San Diego County Department of Sanitation and Flood Control.

GAGE.--Water-stage recorder. Datum of gage is 149.28 ft (45.501 m) above mean sea level (levels by San Diego County); gage readings have been reduced to elevations above mean sea level. Prior to Oct. 1, 1972, non-recording gage at same site at datum 0.16 ft (0.049 m) lower.

EXTREMES.--Current year: Maximum contents observed, 3,610 acre-ft (4.45 hm³) May 15 (elevation, 196.48 ft or 59.887 m); minimum, 2,350 acre-ft (2.90 hm³) Nov. 17 (elevation, 191.48 ft or 58.363 m).

Period of record (1943-66, 1972 to current year): Maximum contents, 20,900 acre-ft (25.8 hm³) Oct. 31, 1943 (elevation, 231.24 ft or 70.482 m); minimum, 1,740 acre-ft (2.15 hm³) Nov. 1, 1949 (elevation, 188.48 ft or 57.449 m).

REMARKS.--Reservoir is formed by concrete-gravity dam. Dam completed Apr. 7, 1888, to elevation 223.82 ft (68.220 m), raised to elevation 228.82 ft (69.744 m) in 1895, and raised to elevation 243.82 ft (74.316 m) in 1911. In 1939 the spillway was completed at its present elevation. Capacity table dated December 1947. Capacity of reservoir at spillway level, 27,690 acre-ft (34.1 hm³), elevation, 238.82 ft (72.792 m). Dead storage below lowest outlet, 4.0 acre-ft (4,930 m³), elevation, 168.82 ft (51.456 m). Diversions for irrigation. Regulation at Loveland Reservoir. Water is released by California-American Water Co. as required for irrigation and domestic use in Chula Vista, National City, and contiguous areas.

COOPERATION.--Gage heights furnished by San Diego County Department of Sanitation and Flood Control.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet) ^a	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	193.41	2,850	--
Oct. 31.....	191.94	2,460	-390
Nov. 30.....	191.89	2,450	-10
Dec. 31.....	191.80	2,430	-20
CAL YR 1973.....	--	--	+420
Jan. 31.....	192.91	2,690	+260
Feb. 28.....	191.70	2,400	-290
Mar. 31.....	192.78	2,660	+260
Apr. 30.....	195.29	3,290	+630
May 31.....	196.25	3,540	+250
June 30.....	195.25	3,280	-260
July 31.....	195.10	3,240	-40
Aug. 31.....	195.20	3,270	+30
Sept. 30.....	194.75	3,150	-120
WTR YR 1974.....	--	--	+300

^a Elevation at 0800.

SAN DIEGO RIVER BASIN

11020600 EL CAPITAN RESERVOIR NEAR LAKESIDE, CALIF.

LOCATION.--Lat 32°53'00", long 116°48'25", in NE¼SE¼NE¼ sec.7, T.15 S., R.2 E., San Diego County, on outlet tower of El Capitan Dam on San Diego River, 7 mi (11 km) east of Lakeside.

DRAINAGE AREA.--188 mi² (487 km²).

PERIOD OF RECORD.--October 1945 to September 1966 published with San Diego River at El Capitan Dam (sta 11020500). October 1972 to current year. October 1936 to September 1945 not equivalent owing to exclusion of greater part of flow released from Cuyamaca Reservoir.

GAGE.--Water-stage recorder. Datum of gage is 663.0 ft (202.08 m) above mean sea level; gage readings have been converted to elevations above mean sea level. Prior to Oct. 1, 1972, nonrecording gage at same site at datum 110.0 ft (33.53 m) lower.

EXTREMES.--Current year: Maximum contents observed, 32,960 acre-ft (40.6 hm³) Oct. 1 (elevation, 678.91 ft or 206.932 m); minimum, 14,960 acre-ft (18.4 hm³) Sept. 30 (elevation, 648.77 ft or 197.745 m).
Period of record (1945-66, 1972 to current year): Maximum contents, 62,400 acre-ft (76.9 hm³) Oct. 1, 1945 (elevation, 708.75 ft or 216.027 m); minimum, 2,252 acre-ft (2.78 hm³) May 1, 1957 (elevation, 606.28 ft or 184.794 m).

REMARKS.--Reservoir is formed by hydraulic fill-rock embankment, completed in 1935. Capacity table dated Mar. 29, 1956. Capacity of reservoir at spillway level, 112,810 acre-ft (139 hm³), elevation, 750.00 ft (228.600 m). Dead storage below lowest outlet, 59.2 acre-ft (73,000 m³), elevation, 574.0 ft (174.955 m). Reservoir storage includes supplemental Colorado River water. No significant diversion above reservoir. Flow partly regulated by Cuyamaca Reservoir. Water is released as required for municipal use and irrigation.

COOPERATION.--Records furnished by San Diego County, Department of Sanitation and Flood Control.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet) ^a	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	678.99	33,020	--
Oct. 31.....	676.02	30,840	-2,180
Nov. 30.....	673.62	29,140	-1,700
Dec. 31.....	670.21	26,830	-2,310
CAL YR 1973.....	--	--	+17,210
Jan. 31.....	668.36	25,630	-1,200
Feb. 28.....	667.96	25,380	-250
Mar. 31.....	666.47	24,440	-940
Apr. 30.....	666.65	24,560	+120
May 31.....	665.62	23,920	-640
June 30.....	664.16	23,040	-880
July 31.....	660.54	20,960	-2,080
Aug. 31.....	654.44	17,700	-3,260
Sept. 30.....	648.77	14,960	-2,740
WTR YR 1974.....	--	--	-18,060

^a Elevation at 0800.

11022100 SAN VICENTE RESERVOIR NEAR LAKESIDE, CALIF.

LOCATION.--Lat 32°54'45", long 116°55'25", in SE¼SW¼NW¼ sec.31, T.14 S., R.1 E., San Diego County, near center of upstream face of San Vicente Dam on San Vicente Creek, 3.6 mi (5.8 km) north of Lakeside.

DRAINAGE AREA.--74.2 mi² (192.2 km²).

PERIOD OF RECORD.--October 1946 to September 1961 published with San Vicente Creek at San Vicente Dam, at Foster (sta 11022000). October 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 560.0 ft (170.69 m) above mean sea level; gage readings have been converted to elevations above mean sea level. October 1946 to September 1961, nonrecording gage at same site at datum 100 ft (30.5 m) lower.

EXTREMES.--Current year: Maximum contents observed, 78,670 acre-ft (97.0 hm³) Oct. 1 (elevation, 638.89 ft or 194.734 m); minimum, 57,450 acre-ft (70.8 hm³) Sept. 29 (elevation, 616.46 ft or 187.897 m).

Period of record (1946-61, 1972 to current year): Maximum contents, 83,980 acre-ft (104 hm³) July 31, 1973 (elevation, 664.07 ft or 202.409 m); minimum, 12,390 acre-ft (15.3 hm³) Nov. 1, 1947 (elevation, 549.22 ft or 167.402 m).

REMARKS.--Reservoir is formed by concrete-gravity dam, constructed in 1941-43 by city of San Diego; storage began during construction period. Capacity table is dated Feb. 18, 1944. Capacity of reservoir at spillway level, 90,230 acre-ft (111 hm³), elevation, 650 ft (198.1 m). Dead storage below lowest outlet, 350 acre-ft (432,000 m³), elevation, 493.0 ft (150.27 m). Reservoir storage includes supplemental water from the San Diego River, Santa Ysabel Creek, and Colorado River basins. No diversion above reservoir. Water is released as required for municipal use.

COOPERATION.--Gage heights furnished by San Diego County, Department of Sanitation and Flood Control.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet) ^a	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	639.02	78,800	--
Oct. 31.....	635.00	74,780	-4,020
Nov. 30.....	633.04	72,860	-1,920
Dec. 31.....	631.54	71,400	-1,460
CAL YR 1973.....	--	--	+1,480
Jan. 31.....	631.31	71,180	-220
Feb. 28.....	631.10	70,970	-210
Mar. 31.....	636.72	76,490	+5,520
Apr. 30.....	633.16	72,970	-3,520
May 31.....	629.22	69,170	-3,800
June 30.....	624.85	65,060	-4,110
July 31.....	620.65	61,200	-3,860
Aug. 31.....	617.92	58,740	-2,460
Sept. 30.....	616.52	57,500	-1,240
WTR YR 1974.....	--	--	-21,300

a Elevation at 0800.

SAN DIEGO RIVER BASIN

11022500 SAN DIEGO RIVER NEAR SANTEE, CALIF.

LOCATION.--Lat 32°49'29", long 117°03'17", in Ex Mission San Diego Grant, San Diego County, on right bank in Mission Gorge, 0.2 mi (0.3 km) upstream from left tributary, and 6 mi (10 km) west of Santee.

DRAINAGE AREA.--377 mi² (976 km²).

PERIOD OF RECORD.--May 1912 to December 1915, March 1916 to current year. Monthly discharge only for some periods and yearly estimates only for 1924-25, published in WSP 1315-B.

GAGE.--Water-stage recorder and unfinished rubble dam control. Altitude of gage is 180 ft (54.9 m), from topographic map. Prior to Nov. 10, 1920, nonrecording gage at site 1.5 mi (2.4 km) upstream at different datum. Nov. 10, 1920, to Dec. 1, 1954, water-stage recorder at present site at datum 1.0 ft (0.30 m) higher.

AVERAGE DISCHARGE.--61 years, 22.2 ft³/s (0.6287 m³/s), 16,080 acre-ft/yr (19.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 657 ft³/s (18.6 m³/s) Jan. 8 (gage height, 5.92 ft or 1.804 m); minimum daily, 2.2 ft³/s (0.062 m³/s) July 18, 20.

Period of record: Maximum discharge, 70,200 ft³/s (1,988 m³/s) Jan. 27, 1916 (gage height, 25.1 ft or 7.651 m, site and datum then in use), based on slope-conveyance computation; no flow at times in some years.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Flow regulated by Cuyamaca Reservoir, capacity, 11,540 acre-ft (46.7 hm³), El Capitan Reservoir (see sta 11020500), and San Vicente Reservoir (see sta 11022000). Diversions by city of San Diego for municipal supply and by Helix Irrigation District. AVERAGE DISCHARGE represents flow to ocean during period of record, regardless of upstream development. Records of sediment discharge for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	5.5	12	18	8.4	7.9	15	5.8	4.0	3.3	3.0	4.2
2	6.8	5.8	14	17	9.2	12	31	4.9	4.5	2.8	3.0	3.8
3	5.7	6.4	11	13	9.3	17	13	4.0	4.3	2.9	2.6	3.3
4	5.5	7.0	10	14	9.5	14	9.5	3.6	3.9	3.0	3.2	3.0
5	5.5	7.0	9.2	299	10	9.0	7.6	4.9	4.0	3.1	3.3	2.8
6	6.8	6.5	8.2	55	11	8.0	6.5	5.5	3.8	3.0	2.7	2.9
7	7.2	5.4	7.3	154	11	8.0	6.5	4.7	4.0	3.5	2.7	3.0
8	5.8	5.4	7.3	332	10	8.6	6.5	4.6	3.9	3.4	2.7	3.4
9	5.1	5.6	7.1	60	10	20	6.5	4.8	4.3	3.0	3.4	3.6
10	4.8	5.6	6.1	36	11	15	6.5	5.2	4.2	2.9	4.2	3.5
11	4.7	5.9	5.6	24	10	12	6.7	5.1	3.7	2.9	4.6	3.2
12	4.7	6.2	5.4	20	10	12	7.0	5.4	3.5	3.1	4.0	3.4
13	4.5	5.9	5.9	16	9.7	12	7.0	5.3	3.6	3.2	3.5	3.3
14	5.3	5.6	6.5	15	9.7	12	7.0	5.3	3.5	3.6	3.5	3.4
15	5.2	5.9	7.1	14	9.1	12	7.0	5.1	3.5	3.7	4.3	3.8
16	5.0	6.2	7.1	13	8.7	12	7.0	5.1	3.6	3.0	4.5	3.7
17	5.0	6.8	7.1	13	9.7	12	7.0	5.2	3.2	2.7	4.7	3.7
18	5.2	30	7.1	12	9.9	12	6.8	5.4	3.4	2.2	4.4	3.6
19	5.7	29	7.1	12	8.9	12	6.4	6.1	3.7	2.4	3.8	3.2
20	6.3	14	6.8	12	10	12	6.5	5.8	3.7	2.2	3.5	3.4
21	6.7	10	6.8	12	9.5	12	6.7	6.1	3.6	2.8	3.4	3.2
22	6.9	9.6	7.1	11	8.8	12	6.2	6.2	3.5	2.7	3.3	3.6
23	6.3	73	7.6	10	8.6	12	5.9	6.4	3.7	2.3	3.3	3.6
24	5.7	17	7.6	10	8.5	12	5.7	5.9	3.8	2.4	3.5	3.4
25	5.3	10	7.9	10	8.2	12	5.6	5.7	3.5	2.5	4.2	3.4
26	5.1	15	8.5	10	8.1	12	5.2	6.0	3.1	2.5	4.2	3.6
27	5.0	14	8.2	10	7.8	14	5.0	5.6	3.0	2.4	3.8	3.6
28	5.5	11	7.9	8.6	7.7	14	5.9	5.0	2.9	3.3	3.6	3.6
29	5.2	11	9.2	8.1	-----	14	5.8	4.3	2.9	3.2	3.5	3.8
30	5.0	12	9.6	8.3	-----	14	5.6	4.2	3.5	2.7	3.6	3.8
31	5.3	-----	9.6	8.0	-----	14	-----	3.9	-----	2.6	3.6	-----
TOTAL	173.9	358.3	247.9	1,255.0	262.3	458.9	234.6	161.1	109.8	89.3	111.6	103.8
MEAN	5.61	11.9	8.00	40.5	9.37	14.8	7.82	5.20	3.66	2.88	3.60	3.46
MAX	7.2	73	14	332	11	86	31	6.4	4.5	3.7	4.7	4.2
MIN	4.5	5.4	5.4	8.0	7.7	7.9	5.0	3.6	2.9	2.2	2.6	2.8
AC-FT	345	711	492	2,490	520	910	465	320	218	177	221	206

CAL YR 1973 TOTAL 4,496.5 MEAN 12.3 MAX 187 MIN 1.5 AC-FT 8,920
WTR YR 1974 TOTAL 3,566.5 MEAN 9.77 MAX 332 MIN 2.2 AC-FT 7,070

11023320 POMERADO CREEK AT POWAY ROAD, NEAR POWAY, CALIF.

LOCATION.--Lat 32°57'07", long 117°03'48", in NE¼SW¼SW¼ sec.14, T.14 S., R.2 W., San Diego County, on right bank at Poway Road, 0.2 mi (0.3 km) upstream from mouth, and 2.0 mi (3.2 km) southwest of Poway.

DRAINAGE AREA.--4.14 mi² (10.72 km²).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 440 ft (134 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 131 ft³/s (3.71 m³/s) Jan. 7 (gage height, 5.11 ft or 1.558 m); no flow many days.

Period of record: Maximum discharge, 131 ft³/s (3.71 m³/s) Jan. 7, 1974 (gage height, 5.11 ft or 1.558 m); no flow many days in each year.

REMARKS.--Records good. No regulation or diversion.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	.09	.54	.01	.03	.03	.01	0	0	.01	
2	0	0	.07	.21	.01	.41	.87	.01	0	0	.01	
3	0	0	.03	.03	.01	.71	.06	.02	0	0	.01	
4	0	0	.02	4.5	.01	.07	.02	.01	.01	0	0	
5	0	0	.02	7.1	.01	.04	.02	.01	.01	0	0	
6	0	0	.02	8.1	.02	.04	.02	.01	.01	0	0	
7	0	.01	.02	15	.01	.85	.02	.01	.01	0	.01	
8	0	0	.03	21	.01	14	.02	.01	.01	0	.01	
9	0	0	.02	2.0	.01	1.9	.03	.01	.01	0	0	
10	0	0	.02	1.1	.01	.58	.03	.02	.01	0	0	
11	0	0	.02	.35	.02	.13	.02	.01	.01	0	0	
12	0	0	.02	.22	.01	.06	.02	.01	.01	0	.01	
13	0	0	.02	.14	.01	.04	.02	.01	.01	0	0	
14	.01	.01	.03	.09	.01	.04	.02	.01	.02	0	0	
15	0	0	.02	.04	.01	.03	.02	.01	0	0	0	
16	0	0	.02	.05	.01	.02	.02	.01	0	0	0	
17	0	.16	.02	.05	.02	.02	.02	.01	.01	0	0	
18	0	1.9	.02	.05	.01	.03	.03	.01	.01	.02	0	
19	0	.07	.02	.04	.02	.03	.03	.01	0	0	0	
20	0	.02	.02	.04	.05	.02	.03	.01	0	0	0	
21	0	.04	.02	.05	.03	.01	.01	.01	0	0	0	
22	0	.02	.18	.02	.03	.01	.02	.01	0	0	0	
23	0	11	.03	.02	.04	.01	.02	.01	0	0	0	
24	0	.11	.02	.02	.04	.01	.01	.01	0	0	0	
25	0	.08	.02	.02	.03	.01	.02	0	0	0	0	
26	0	.39	.02	.02	.04	.01	.01	.01	0	0	0	
27	0	.64	.02	.01	.04	.24	.01	.01	0	0	0	
28	0	.56	.03	.02	.03	.03	.01	.01	0	0	0	
29	0	.22	.02	.01	-----	.03	.02	.01	0	.01	0	
30	0	.03	.02	.01	-----	.02	.01	.01	0	.11	0	
31	.01	-----	.02	.01	-----	.03	-----	0	-----	.01	0	-----
TOTAL	.02	15.26	.95	60.96	.56	19.50	1.49	.31	.14	.15	.06	0
MEAN	.0006	.51	.631	1.97	.020	.63	.050	.010	.005	.005	.002	0
MAX	.01	11	.13	21	.05	14	.87	.02	.02	.11	.01	0
MIN	0	0	.02	.01	.01	.01	.01	0	0	0	0	0
AC-FT	.04	30	1.9	121	1.1	39	3.0	.6	.3	.3	.1	0

CAL YR 1973 TOTAL 121.25 MEAN .33 MAX 15 MIN 0 AC-FT 240
 WTR YR 1974 TOTAL 99.49 MEAN .27 MAX 21 MIN 0 AC-FT 197

LOS PENASQUITOS CREEK BASIN

11023330 LOS PENASQUITOS CREEK BELOW POWAY CREEK, NEAR POWAY, CALIF.

LOCATION.--Lat 32°56'58", long 117°04'08", in NW¼NE¼NE¼ sec.22, T.14 S., R.2 W., San Diego County, on right bank at Cobblestone Creek Road, 0.2 mi (0.3 km) downstream from confluence of Poway and Pomerado Creeks, and 2.0 mi (3.2 km) southwest of Poway.

DRAINAGE AREA.--31.2 mi² (80.8 km²).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder and rain-gage attachment. Altitude of gage is 415 ft (126 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 501 ft³/s (14.2 m³/s) Jan. 8 (gage-height, 7.23 ft or 2.204 m); no flow Sept. 3-7, 13-16.

Period of record: Maximum discharge, 501 ft³/s (14.2 m³/s) Jan. 8, 1974 (gage height, 7.23 ft or 2.204 m); no flow for parts of each year.

REMARKS.--Records good. Flow partly regulated by small conservation reservoirs.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.01	.32	2.7	.40	.15	.17	.04	.02	.02	.02	.01
2	.01	.01	.16	.50	.45	1.9	5.8	.04	.02	.02	.02	.01
3	.01	.01	.11	.27	.38	4.9	.51	.05	.02	.02	.02	0
4	.01	.01	.11	17	.39	.63	.22	.04	.01	.02	.02	0
5	.01	.01	.11	37	.37	.25	.17	.06	.03	.02	.02	0
6	.01	.01	.11	30	.34	.21	.13	.09	.02	.02	.02	0
7	.01	.01	.11	54	.23	5.1	.15	.07	.12	.02	.02	0
8	.01	.01	.11	116	.24	80	.13	.06	.18	.02	.02	.01
9	.01	.01	.11	7.1	.25	6.4	.14	.06	.02	.02	.01	.01
10	.01	.01	.11	4.2	.25	2.1	.13	.06	.01	.02	.01	.01
11	.01	.01	.11	2.5	.29	1.1	.12	.05	.02	.02	.01	.01
12	.01	.01	.13	1.8	.29	.73	.12	.05	.02	.02	.01	.01
13	.01	.01	.15	1.4	.25	.63	.14	.06	.02	.02	.01	0
14	.01	.01	.19	1.2	.19	.59	.11	.13	.02	.02	.01	0
15	.01	.01	.18	1.1	.21	.51	.08	.51	.02	.02	.01	0
16	.01	.01	.18	.92	.22	.48	.07	.62	.01	.02	.01	0
17	.01	.01	.17	.90	.46	.48	.07	.52	.01	.02	.01	.01
18	.01	3.3	.19	.93	.28	.48	.07	.20	.01	.02	.01	.01
19	.01	.23	.14	.78	.27	.52	.08	.03	.02	.02	.01	.01
20	.01	.01	.14	.79	.42	.47	.12	.13	.02	.02	.01	.01
21	.01	.01	.18	1.0	.18	.40	.08	.42	.02	.01	.01	.01
22	.01	.09	.56	.55	.17	.38	.07	.47	.02	.01	.01	.01
23	.01	37	.19	.51	.13	.42	.08	.53	.02	.01	.01	.01
24	.01	1.6	.15	.47	.11	.40	.09	.48	.02	.01	.01	.01
25	.01	.32	.14	.47	.17	.37	.10	.10	.02	.01	.01	.01
26	.01	1.9	.21	.48	.16	.35	.06	.02	.02	.01	.01	.01
27	.01	.90	.17	.45	.11	1.6	.10	.02	.02	.01	.01	.01
28	.01	.75	.18	.45	.18	.29	.07	.08	.02	.01	.01	.01
29	.01	.25	.16	.51	-----	.18	.06	.33	.02	.01	.01	.01
30	.01	.12	.17	.51	-----	.19	.06	.20	.02	.01	.01	.01
31	.01	-----	.17	.44	-----	.19	-----	.02	-----	.02	.01	-----
TOTAL	.31	46.65	5.22	286.93	7.39	112.40	9.30	5.54	.82	.52	.39	.21
MEAN	.010	1.56	.17	9.25	.26	3.63	.31	.18	.027	.017	.013	.007
MAX	.01	37	.56	116	.46	80	5.8	.62	.18	.02	.02	.01
MIN	.01	.01	.11	.27	.11	.15	.06	.02	.01	.01	.01	0
AC-FT	.6	93	10	569	15	223	18	11	1.6	1.0	.8	.4
(a)	0	1.80	14	4.30	.09	2.18	.39	0	0	0	0	0
CAL YR 1973	TOTAL 700.69	MEAN 1.92	MAX 56	MIN 0	AC-FT 1,390							
WTR YR 1974	TOTAL 475.68	MEAN 1.30	MAX 116	MIN 0	AC-FT 944							

a Precipitation, in inches.

11023340 LOS PENASQUITOS CREEK NEAR POWAY, CALIF.

LOCATION.--Lat 32°56'35", long 117°07'15", in Los Penasquitos Grant, San Diego County, on left bank 1.0 mi (1.6 km) downstream from Cypress Creek, and 5.5 mi (8.8 km) southwest of Poway.

DRAINAGE AREA.--42.1 mi² (109 km²).

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 260 ft (79.2 m), from topographic map.

AVERAGE DISCHARGE.--10 years, 3.70 ft³/s (0.10 m³/s), 2,680 acre-ft/yr (3.30 km³/yr).

EXTREMES.--Current year: Maximum discharge, 608 ft³/s (17.2 m³/s) Jan. 8 (gage height, 5.46 ft or 1.664 m); minimum daily, 0.03 ft³/s (0.001 m³/s) on several days.

Period of record: Maximum discharge, 2,100 ft³/s (59.5 m³/s) Dec. 6, 1966 (gage height, 6.90 ft or 2.103 m in gage well, 7.70 ft or 2.35 m, from profile of floodmarks), from rating curve extended above 400 ft³/s (11.3 m³/s) on basis of slope-area measurement at gage height 6.23 ft (1.90 m) in gage well, 7.40 ft (2.26 m), from outside gage; no flow May 16, 17, 1968, July 1, 1972.

REMARKS.--Records fair. Flow partly regulated by several conservation reservoirs above station. Pumping from wells along stream for irrigation. Flow augmented by reclaimed water from Poway area.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	.10	.32	1.2	.81	.49	.81	.09	.10	.04	.04	.03
2	.04	.16	.35	1.6	.78	1.2	3.2	.10	.09	.04	.04	.03
3	.04	.22	.43	.60	.75	3.4	2.1	.10	.08	.04	.04	.03
4	.05	.17	.31	4.9	.75	3.2	1.0	.08	.06	.04	.04	.03
5	.05	.14	.23	.53	.75	1.2	.81	.10	.05	.04	.04	.03
6	.07	.12	.20	.23	.81	.99	.73	.13	.05	.04	.04	.03
7	.09	.12	.22	.55	.80	1.5	.68	.12	.07	.04	.04	.03
8	.09	.17	.16	1.3	.66	.86	.63	.12	.08	.04	.04	.03
9	.08	.20	.15	.17	.59	.25	.63	.12	.06	.04	.04	.03
10	.07	.18	.16	4.3	.57	3.2	.59	.15	.06	.04	.04	.03
11	.07	.16	.15	2.9	.57	1.7	.55	.14	.05	.04	.04	.03
12	.07	.15	.14	1.9	.59	1.4	.59	.10	.05	.04	.04	.05
13	.06	.18	.14	1.5	.65	1.1	.57	.09	.05	.04	.04	.15
14	.06	.22	.18	1.3	.59	1.1	.56	.09	.06	.05	.04	.07
15	.06	.21	.18	1.1	.56	1.0	.55	.10	.06	.04	.04	.06
16	.07	.21	.19	.99	.54	.93	.50	.18	.06	.04	.04	.05
17	.08	.27	.19	.88	.53	.86	.50	.26	.06	.04	.04	.05
18	.07	5.4	.20	.92	.65	.86	.52	.28	.05	.04	.04	.05
19	.06	1.3	.18	.85	.64	.85	.52	.22	.05	.04	.04	.05
20	.06	.53	.16	.85	.65	.86	.54	.11	.05	.04	.04	.06
21	.06	.39	.15	.99	.67	.91	.54	.08	.05	.04	.04	.05
22	.04	.39	.33	.95	.55	.90	.48	.11	.05	.04	.04	.05
23	.09	31	.45	.90	.52	.81	.47	.20	.05	.04	.04	.05
24	.10	3.3	.31	.85	.50	.87	.43	.29	.05	.03	.04	.05
25	.10	1.1	.29	.81	.47	.88	.40	.30	.05	.04	.04	.05
26	.10	1.4	.29	.81	.47	.85	.36	.19	.04	.04	.03	.05
27	.11	1.3	.22	.81	.50	1.4	.26	.10	.04	.04	.03	.05
28	.11	.81	.25	.81	.49	1.7	.15	.07	.04	.04	.03	.04
29	.09	.67	.25	.78	-----	.98	.13	.06	.04	.04	.03	.04
30	.06	.49	.25	.85	-----	.86	.11	.06	.04	.04	.03	.04
31	.07	-----	.23	.85	-----	.88	-----	.10	-----	.04	.03	-----
TOTAL	2.26	51.56	7.26	346.20	17.41	147.88	19.91	4.24	1.69	1.24	1.18	1.39
MEAN	.073	1.72	.23	11.2	.62	4.77	.66	.14	.056	.040	.038	.046
MAX	.11	.31	.45	163	.81	.86	3.2	.30	.10	.05	.04	.15
MIN	.04	.10	.14	.60	.47	.49	.11	.06	.04	.03	.03	.03
AC-FT	4.5	102	14	687	35	293	39	8.4	3.4	2.5	2.3	2.8

CAL YR 1973 TOTAL 1,276.55 MEAN 3.50 MAX 197 MIN .03 AC-FT 2,530
 WTR YR 1974 TOTAL 602.22 MEAN 1.65 MAX 163 MIN .03 AC-FT 1,190

PEAK DISCHARGE (BASE, 60 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-23	0215	3.34	125	1-8	0400	5.46	608
1-5	0600	3.16	99	3-8	1045	3.68	192

SAN DIEGUITO RIVER BASIN

11025500 SANTA YSABEL CREEK NEAR RAMONA, CALIF.

LOCATION.--Lat 33°06'25", long 116°51'55", in SW¼NW¼NE¼ sec.27, T.12 S., R.1 E., San Diego County, on left bank 1.6 mi (2.6 km) downstream from Temescal Creek, and 4.5 mi (7.2 km) north of Ramona.

DRAINAGE AREA.--112 mi² (290 km²).

PERIOD OF RECORD.--February 1912 to February 1923, October 1943 to current year. Monthly discharge only for February 1912, published in WSP 1315-B.

GAGE.--Water-stage recorder and concrete cutoff wall, repaired at times. Datum of gage is 847.88 ft (258.434 m) above mean sea level (levels by city of San Diego Water Department). See WSP 1315-A for history of changes prior to Feb. 3, 1923.

EXTREMES.--Current year: Maximum discharge, 254 ft³/s (7.19 m³/s) Jan. 8 (gage height, 3.88 ft or 1.183 m); no flow for many days.

Period of record: Maximum discharge, 28,400 ft³/s (804 m³/s) Jan. 27, 1916 (gage height, 14.0 ft or 4.27 m, datum then in use), from rating curve extended above 1,500 ft³/s (42.5 m³/s) on basis of slope-conveyance computation of maximum flow; no flow at times in some years.

REMARKS.--Records fair except those for periods of no gage-height record, which are poor. Flow regulated by Sutherland Reservoir (see sta 11024000) since July 1954. Some small diversions above station.

DISCHARGE. IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	.02	.78	.49	1.2	.04	.03			
2			0	.01	.76	.99	1.2	.04	.01			
3			0	.01	.76	2.4	5.0	.03	.01			
4			0	.02	.76	2.2	3.5	.03	.01			
5			0	.01	.76	1.5	2.5	.06	.01			
6			0	.01	.66	1.1	2.0	.09	.01			
7			0	5.3	.66	1.4	1.6	.07	.01			
8			0	115	.57	5.5	1.5	.04	.01			
9			.01	17	.49	7.5	1.3	.04	.01			
10			.01	8.7	.49	3.5	1.2	.06	.01			
11			.01	5.5	.57	2.8	1.1	.04	.01			
12			.01	4.5	.57	2.2	1.0	.03	.01			
13			.01	3.2	.66	1.9	.92	.03	.01			
14			.01	2.4	.57	1.7	.86	.03	.01			
15			.01	2.0	.57	1.5	.78	.03	0			
16			.01	1.5	.66	1.4	.72	.02	0			
17			.01	1.2	.87	1.4	.64	.03	0			
18			.01	1.2	.87	1.1	.60	.03	0			
19			.01	1.2	.87	1.1	.52	.03	0			
20			.01	1.2	.87	1.1	.47	.02	.01			
21			.02	1.6	.87	1.1	.42	.02	0			
22			.02	2.5	.87	1.1	.37	.02	0			
23			.02	1.8	.76	1.1	.34	.02	0			
24			.03	1.5	.57	1.1	.29	.02	0			
25			.02	1.3	.49	1.1	.25	.02	0			
26			.04	1.1	.49	1.1	.21	.02	0			
27			.05	1.0	.49	1.2	.14	.03	0			
28			.06	.94	.49	1.2	.10	.03	0			
29			.06	.90	-----	1.2	.04	.03	0			
30			.03	.85	-----	1.2	.04	.03	0			
31		-----	.01	.82	-----	1.2	-----	.04	-----			-----
TOTAL	0	0	.48	184.29	18.80	55.38	30.81	1.07	.17	0	0	0
MEAN	0	0	.016	5.94	.67	1.79	1.03	.035	.006	0	0	0
MAX	0	0	.06	115	.87	7.5	5.0	.09	.03	0	0	0
MIN	0	0	0	.01	.49	.49	.04	.02	0	0	0	0
AC-FT	0	0	1.0	366	37	110	61	2.1	.3	0	0	0

CAL YR 1973 TOTAL 1,577.87 MEAN 4.32 MAX 64 MIN 0 AC-FT 3,130
WTR YR 1974 TOTAL 291.00 MEAN .80 MAX 115 MIN 0 AC-FT 577

NOTE.--No gage-height record Jan. 12 to Feb. 14, Mar. 24 to May 2.

11026000 SANTA YSABEL CREEK NEAR SAN PASQUAL, CALIF.

LOCATION.--Lat 33°05'10", long 116°54'56", in NE¼NW¼SE¼ sec.31, T.12 S., R.1 E., San Diego County, on left bank 1.1 mi (1.8 km) downstream from Clevenger Canyon, and 2 mi (3 km) east of San Pasqual.

DRAINAGE AREA.--128 mi² (332 km²).

PERIOD OF RECORD.--December 1905 to September 1910 and May 1911 to September 1912 (published as "near Escondido"), April 1947 to November 1955 (irrigation seasons only), April 1956 to current year. Records for October to December 1910, published in WSP 447, have been found to be in error and should not be used.

GAGE.--Water-stage recorder. Concrete control since April 1947. Altitude of gage is 510 ft (155 m), from topographic map. Dec. 17, 1905, to Sept. 30, 1912, nonrecording gage at site 0.2 mi (0.3 km) downstream at different datum.

EXTREMES.--Current year: Maximum discharge, 330 ft³/s (9.35 m³/s) Jan. 8 (gage height, 3.79 ft or 1.155 m); no flow Oct. 1 to Jan. 4, May 17 to Sept. 30.

Period of record (1905-12, 1947 to current year): Maximum discharge observed, 8,000 ft³/s (227 m³/s) Mar. 24, 1906 (gage height, 6.3 ft or 1.92 m, site and datum then in use); no flow at times in most years.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Flow regulated by Sutherland Reservoir, capacity, 29,680 acre-ft (120 hm³) since July 1954. Small diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	.98	.58	1.4	.06				
2				0	.98	.68	1.4	.06				
3				0	.98	1.7	5.1	.06				
4				0	.98	2.9	3.7	.06				
5				.16	.98	2.0	2.5	.06				
6				.10	.88	1.6	2.0	.05				
7				2.3	.76	2.3	1.7	.03				
8				135	.68	5.5	1.6	.02				
9				24	.68	7.5	1.4	.01				
10				8.0	.65	4.6	1.3	.01				
11				5.6	.65	3.0	1.2	.01				
12				3.8	.72	2.5	1.1	.01				
13				2.8	.76	2.2	1.0	.01				
14				2.4	.76	2.0	1.0	.01				
15				2.0	.72	1.8	.90	.01				
16				1.8	.72	1.7	.82	.01				
17				1.5	.76	1.6	.74	0				
18				1.5	.76	1.5	.69	0				
19				1.5	.76	1.5	.61	0				
20				1.5	.76	1.4	.54	0				
21				2.1	.76	1.4	.50	0				
22				2.5	.76	1.4	.43	0				
23				2.0	.76	1.4	.36	0				
24				1.5	.68	1.3	.31	0				
25				1.3	.58	1.3	.26	0				
26				1.2	.55	1.3	.22	0				
27				1.1	.55	1.3	.18	0				
28				1.0	.58	1.4	.12	0				
29				1.0	-----	1.4	.08	0				
30				1.0	-----	1.4	.06	0				
31		-----		.98	-----	1.4	-----	0	-----			-----
TOTAL	0	0	0	209.64	21.14	63.56	33.22	.48	0	0	0	0
MEAN	0	0	0	6.76	.76	2.05	1.11	.016	0	0	0	0
MAX	0	0	0	135	.98	7.5	5.1	.06	0	0	0	0
MIN	0	0	0	0	.55	.58	.06	0	0	0	0	0
AC-FT	0	0	0	416	42	126	66	1.0	0	0	0	0

CAL YR 1973 TOTAL 2,118.59 MEAN 5.80 MAX 120 MIN 0 AC-FT 4,200
WTR YR 1974 TOTAL 328.04 MEAN .90 MAX 135 MIN 0 AC-FT 651

NOTE.--No gage-height record Apr. 4 to Sept. 30.

11027000 GUEJITO CREEK NEAR SAN PASQUAL, CALIF.

LOCATION.--Lat 33°06'57", long 116°57'08", in NW¼NW¼SE¼ sec.23, T.12 S., R.1 W., San Diego County, on left bank 0.3 mi (0.5 km) upstream from Rockwood Canyon Creek, and 1.8 mi (2.9 km) north of San Pasqual.

DRAINAGE AREA.--22.5 mi² (58.3 km²).

PERIOD OF RECORD.--December 1946 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 560 ft (171 m), from topographic map.

AVERAGE DISCHARGE.--27 years (1947-74), 1.44 ft³/s (0.0408 m³/s), 1,040 acre-ft/yr (1.28 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 102 ft³/s (2.89 m³/s) Jan. 8 (gage height, 2.92 ft or 0.890 m); no flow many days.

Period of record: Maximum discharge, 2,920 ft³/s (82.7 m³/s) Dec. 6, 1966 (gage height, 6.78 ft or 2.067 m), from rating curve extended above 440 ft³/s (12.5 m³/s) on basis of slope-area measurements at gage heights 5.83 ft (1.777 m) and 6.30 ft (1.920 m); no flow at times in most years.

REMARKS.--Records good. No regulation above station. Diversion for irrigation 0.2 mi (0.3 km) upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	.02	1.2	.41	.30	.50	.18	.05	.03	.01	0
2	0	0	.07	.92	.44	.96	7.0	.18	.06	.03	.01	0
3	0	0	.06	.50	.37	1.3	2.9	.17	.06	.03	.01	0
4	0	0	.06	.67	.36	.88	1.4	.12	.07	.03	.01	0
5	0	0	.07	5.4	.35	.56	.88	.15	.06	.03	.01	0
6	.01	0	.07	1.8	.35	.44	.69	.14	.06	.02	.01	0
7	.01	0	.06	6.0	.29	.62	.58	.14	.07	.02	.01	0
8	.01	0	.06	39	.29	9.4	.54	.11	.09	.02	.01	0
9	.01	.01	.07	6.0	.27	6.1	.50	.11	.07	.02	.01	0
10	.01	.01	.07	2.5	.27	1.9	.48	.14	.07	.01	.01	.01
11	0	0	.07	1.6	.27	1.2	.44	.11	.06	.02	.01	.01
12	0	.01	.07	1.2	.33	.96	.44	.09	.06	.02	.01	.01
13	0	.01	.08	1.0	.39	.82	.43	.09	.06	.02	.01	.01
14	0	.01	.10	.89	.41	.73	.37	.09	.06	.02	.01	.01
15	.01	.01	.11	.81	.39	.65	.32	.11	.05	.02	.01	.01
16	0	.02	.10	.72	.37	.60	.29	.12	.05	.01	.01	.01
17	0	.02	.10	.69	.54	.55	.30	.11	.05	.01	.01	.01
18	0	.03	.11	.72	.49	.55	.32	.09	.04	.01	.01	.01
19	0	.01	.10	.80	.46	.55	.34	.11	.04	.01	.01	0
20	0	.01	.09	.73	.50	.53	.33	.11	.03	.01	0	0
21	0	.01	.09	1.2	.40	.52	.33	.08	.03	.01	.01	0
22	0	.01	.11	.72	.35	.52	.30	.07	.03	.01	0	0
23	0	.43	.17	.54	.34	.55	.29	.07	.04	.01	.01	0
24	.01	.06	.19	.49	.28	.57	.29	.06	.04	.01	.01	0
25	0	.08	.16	.46	.25	.56	.26	.06	.04	.01	0	0
26	0	.05	.18	.46	.24	.56	.25	.06	.03	.01	0	0
27	0	.04	.20	.46	.25	.61	.24	.06	.03	.01	0	0
28	0	.02	.25	.44	.26	.56	.22	.06	.03	.02	0	0
29	0	.02	.29	.44	-----	.50	.19	.06	.03	.01	0	0
30	0	.02	.29	.44	-----	.50	.18	.06	.03	.01	.01	0
31	0	-----	.29	.41	-----	.52	-----	.06	-----	.02	.01	-----
TOTAL	.07	.49	3.76	79.21	9.92	35.57	21.60	3.17	1.49	.52	.24	.09
MEAN	.002	.030	.12	2.56	.35	1.15	.72	.10	.050	.017	.008	.003
MAX	.01	.43	.29	39	.54	9.4	7.0	.18	.09	.03	.01	.01
MIN	0	0	.02	.41	.24	.30	.18	.06	.03	.01	0	0
AC-FT	.1	1.4	7.5	157	20	71	43	6.3	3.0	1.0	.5	.2

CAL YR 1973 TOTAL 435.66 MEAN 1.19 MAX 27 MIN 0 AC-FT 864
WTR YR 1974 TOTAL 156.53 MEAN .43 MAX 39 MIN 0 AC-FT 310

PEAK DISCHARGE (BASE, 30 FT³/S).--Jan. 8 (0545) 102 ft³/s (2.92 ft).

SAN DIEGUITO RIVER BASIN

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11028500 SANTA MARIA CREEK NEAR RAMONA, CALIF.

LOCATION.--Lat 33°03'08", long 116°56'41", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.11, T.13 S., R.1 W., San Diego County, on left bank 3.8 mi (6.1 km) northwest of Ramona, and 4.6 mi (7.4 km) upstream from mouth.

DRAINAGE AREA.--57.6 mi² (149.2 km²).

PERIOD OF RECORD.--November 1912 to September 1920, October 1946 to current year.

GAGE.--Water-stage recorder. Concrete control since October 1946. Datum of gage is 1,294.44 ft (394.545 m) above mean sea level. Prior to Oct. 1, 1946, at datum 1.78 ft (0.543 m) lower.

AVERAGE DISCHARGE.--35 years (1913-20, 1946-74), 3.42 ft³/s (0.0969 m³/s), 2,480 acre-ft/yr (3.06 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 167 ft³/s (4.73 m³/s) Jan. 8 (gage height, 2.51 ft or 0.765 m); no flow Oct. 1 to Jan. 6, June 1 to Sept. 30.
Period of record: Maximum discharge, 7,140 ft³/s (202 m³/s) Jan. 27, 1916 (gage height, 14.1 ft or 4.298 m, from floodmarks, present datum), from rating curve extended above 600 ft³/s (17.0 m³/s) on basis of slope-area measurement of maximum flow; no flow for several months in each year.

REMARKS.--Records good to 1 ft³/s (0.028 m³/s) and fair above. No regulation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	.08	.02	.02	.01				
2				0	.06	.03	.39	.01				
3				0	.03	.06	.29	.02				
4				0	.02	.06	.23	.02				
5				0	.02	.03	.11	.05				
6				0	.01	.03	.06	.02				
7				1.8	.01	.04	.05	.04				
8				102	.01	9.1	.02	.06				
9				12	.01	5.3	.02	.02				
10				3.4	.01	1.3	.01	.01				
11				1.6	.01	.62	.01	.01				
12				.88	.02	.36	.01	.02				
13				.51	.02	.23	.02	.02				
14				.39	.02	.17	.01	.02				
15				.34	.02	.13	.02	.02				
16				.33	.02	.11	.02	.01				
17				.33	.02	.09	.02	.02				
18				.38	.01	.07	.01	.02				
19				.38	.01	.06	.01	.02				
20				.43	.01	.05	.01	.02				
21				.53	.01	.04	.01	.02				
22				.53	.01	.03	.01	.02				
23				.33	.01	.02	.01	.02				
24				.23	.01	.02	.01	.02				
25				.16	.01	.02	.01	.01				
26				.14	.01	.02	.01	.01				
27				.16	.02	.02	.01	.01				
28				.12	.02	.02	.01	.01				
29				.09	-----	.02	.01	.01				
30				.10	-----	.02	.01	.01				
31				.09	-----	.02	-----	.01	-----			-----
TOTAL	0	0	0	127.25	.52	18.11	1.44	.59	0	0	0	0
MEAN	0	0	0	4.10	.019	.58	.048	.019	0	0	0	0
MAX	0	0	0	102	.08	9.1	.39	.06	0	0	0	0
MIN	0	0	0	0	.01	.02	.01	.01	0	0	0	0
AC-FT	0	0	0	252	1.0	36	2.9	1.2	0	0	0	0

CAL YR 1973 TOTAL 824.31 MEAN 2.26 MAX 91 MIN 0 AC-FT 1,640
WTR YR 1974 TOTAL 147.91 MEAN .41 MAX 102 MIN 0 AC-FT 293

PEAK DISCHARGE (BASE, 20 FT³/S).--Jan. 8 (0530) 167 ft³/s (2.51 ft); Mar. 8 (1800) 24 ft³/s (1.73 ft).

SAN DIEGUITO RIVER BASIN

11030020 LAKE HODGES NEAR ESCONDIDO, CALIF.

LOCATION.--Lat 33°02'41", long 117°07'39", in SE¼SE¼NW¼ sec.18, T.13 S., R.2 W., San Diego County, on face near left end of Hodges Dam on San Dieguito River, and 6.4 mi (10.3 km) southwest of Escondido.

DRAINAGE AREA.--303 mi² (785 km²).

PERIOD OF RECORD.--October 1945 to September 1968 published with San Dieguito River at Lake Hodges (sta 11030000). October 1972 to current year. Records of monthend gage heights February 1919 to September 1945, in files of San Diego County Department of Sanitation and Flood Control.

GAGE.--Water-stage recorder. Datum of gage is 200.0 ft (60.96 m) above mean sea level; gage readings have been reduced to elevations above mean sea level. Prior to Oct. 1, 1972, nonrecording gage at site 800 ft (244 m) upstream on right bank at same datum.

EXTREMES.--Current year: Maximum contents observed, 2,250 acre-ft (2.77 hm³) Apr. 5 (elevation, 261.20 ft or 79.614 m); minimum, 790 acre-ft (974,000 m³) Nov. 20 (elevation, 250.50 ft or 76.352 m).
Period of record (1945-68, 1972 to current year): Maximum contents, 37,930 acre-ft (46.8 hm³) Apr. 1, 1946 (elevation, 315.30 ft or 96.103 m); minimum, 114 acre-ft (141,000 m³) Oct. 31, 1965 (elevation, 235.80 ft or 71.872 m).

REMARKS.--Reservoir is formed by multiple-arch reinforced concrete dam, constructed in 1917-19. Storage began in February 1919. Capacity table based on a 1948 survey; table dated Sept. 18, 1951. Capacity of reservoir at spillway level, 33,550 acre-ft (41.4 hm³), elevation, 315.0 ft (96.01 m). Dead storage below lowest outlet, 1,160 acre-ft (1.43 hm³), elevation, 254.0 ft (77.42 m) included in these records. Reservoir can be drawn down to 207 acre-ft (255,000 m³), elevation, 240.0 ft (73.15 m) by pumping. Water drawn from Lake Hodges passes through a conduit to San Dieguito re-regulating reservoir, from which it is released as required for municipal use. Flow regulated since July 1954 by Sutherland Reservoir (see sta 11024000). Diversions for irrigation above Lake Hodges.

COOPERATION.--Gage heights furnished by San Diego County Department of Sanitation and Flood Control.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet) ^a	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	254.60	1,230	--
Oct. 31.....	252.00	935	-295
Nov. 30.....	251.65	900	-35
Dec. 31.....	250.57	797	-103
CAL YR 1973.....	--	--	-423
Jan. 31.....	258.45	1,780	+983
Feb. 28.....	257.90	1,690	-90
Mar. 31.....	260.90	2,200	+510
Apr. 30.....	259.55	1,960	-240
May 31.....	258.10	1,720	-240
June 30.....	255.00	1,280	-440
July 31.....	254.30	1,190	-90
Aug. 31.....	252.70	1,010	-180
Sept. 30.....	251.95	930	-80
WTR YR 1974.....	--	--	-300

^a Elevation at 0800.

ESCONDIDO CREEK BASIN

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11030700 LAKE WOHLFORD NEAR ESCONDIDO, CALIF.

LOCATION.--Lat 33°10'00", long 117°00'14", in NW¼NE¼ sec.5, T.12 S., R.1 W., San Diego County, on face of Lake Wohlford Dam, 330 ft (101 m) left of spillway, 3.9 mi (6.3 km) southeast of Valley Center Post Office, and 5.7 mi (9.2 km) northeast of Escondido.

DRAINAGE AREA.--7.96 mi² (20.62 km²).

PERIOD OF RECORD.--October 1972 to current year. October 1933 to September 1972 in files of San Diego County Department of Sanitation and Flood Control.

GAGE.--Water-stage recorder. Datum of gage is 1,400.0 ft (426.72 m) above mean sea level (levels by city of Escondido Engineering Department); gage readings have been reduced to elevation above mean sea level. Prior to Oct. 1, 1972, nonrecording gage at same site at datum 15.0 ft (4.57 m) lower.

EXTREMES.--Current year: Maximum contents observed, 3,660 acre-ft (4.51 hm³) Apr. 20 (elevation, 1,462.8 ft or 445.86 m); minimum, 1,910 acre-ft (2.36 hm³) Dec. 31 (elevation, 1,450.0 ft or 441.96 m).
Period of record: Maximum contents, 6,940 acre-ft (8.56 hm³) Apr. 30 to May 10, 1952 (elevation, 1,480.0 ft or 451.10 m); minimum, 809 acre-ft (997,000 m³) Dec. 1, 1953 (elevation, 1,447.5 ft or 441.20 m).

REMARKS.--Reservoir is formed by earthfill dam riprapped upstream and downstream, with concrete spillway anchored to natural rock. Dam was completed in 1932. Capacity table dated March 1955. Capacity at spillway level, 6,940 acre-ft (8.56 hm³), elevation, 1,480.0 ft (451.10 m). Dead storage below lowest outlet, 131 acre-ft (162,000 m³), elevation, 1,420.0 ft (432.82 m). Reservoir storage includes supplemental water diverted from the San Luis Rey River via Escondido Mutual Water Co.'s canal to Lake Wohlford Reservoir. Stored water is released for municipal use by Vista Irrigation District and city of Escondido.

COOPERATION.--Gage heights furnished by San Diego County Department of Sanitation and Flood Control.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet) ^a	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	1,464.6	3,950	--
Oct. 31.....	1,455.7	2,600	-1,350
Nov. 30.....	1,454.0	2,380	-220
Dec. 31.....	1,450.0	1,910	-470
CAL YR 1973.....	--	--	-60
Jan. 31.....	1,453.0	2,260	+350
Feb. 28.....	1,455.2	2,540	+280
Mar. 31.....	1,461.2	3,400	+860
Apr. 30.....	1,461.9	3,520	+120
May 31.....	1,460.7	3,330	-190
June 30.....	1,461.4	3,440	+110
July 31.....	1,461.3	3,420	-20
Aug. 31.....	1,456.5	2,710	-710
Sept. 30.....	1,454.1	2,400	-310
WTR YR 1974.....	--	--	-1,550

^a Elevation at 0800.

11031500 AGUA CALIENTE CREEK NEAR WARNER SPRINGS, CALIF.

LOCATION.--Lat 33°17'19", long 116°39'11", in San Jose del Valle Grant, San Diego County, on downstream end of right pier of bridge on State Highway 79, 1.2 mi (1.9 km) upstream from Canada Verde Creek, and 1.2 mi (1.9 km) northwest of Warner Springs.

DRAINAGE AREA.--19.0 mi² (49.2 km²).

PERIOD OF RECORD.--February 1961 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,950 ft (899 m), from topographic map. Prior to Jan. 29, 1966, at site 120 ft (37 m) upstream at same datum, used as supplementary gage since Dec. 12, 1968.

AVERAGE DISCHARGE.--13 years, 1.12 ft³/s (0.0317 m³/s), 811 acre-ft/yr (1,000,000 m³/yr).

EXTREMES.--Current year: Maximum discharge, 66 ft³/s (1.87 m³/s) Jan. 8 (gage height, 2.88 ft or 0.878 m); no flow most of year.

Period of record: Maximum discharge, 1,200 ft³/s (34.0 m³/s) Dec. 6, 1966 (gage height, 5.18 ft or 1.579 m), from rating curve extended above 240 ft³/s (6.80 m³/s); no flow for much of each year.

REMARKS.--Records good to 10 ft³/s (0.28 m³/s) and fair above. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	.06	.01	0				0	
2				0	.04	.07	.07				3.5	
3				0	.03	.07	.03				1.1	
4				0	.03	.02	.01				0	
5				0	.03	.01	0				0	
6				0	.02	.01	.01				0	
7				1.6	.02	.05	0				0	
8				33	.04	.17	0				0	
9				7.6	.04	.09	0				0	
10				6.1	.04	.04	0				0	
11				3.1	.04	.02	0				0	
12				2.2	.04	0	0				0	
13				4.3	.04	0	0				0	
14				5.5	.04	0	0				0	
15				4.3	.03	0	0				0	
16				4.3	.03	0	0				0	
17				9.3	.03	0	0				0	
18				9.3	.03	0	0				0	
19				4.0	.04	0	0				0	
20				2.9	.03	0	0				0	
21				4.0	.02	0	0				0	
22				1.5	.02	0	0				0	
23				.88	.01	0	0				0	
24				.50	.02	0	0				0	
25				.30	.02	0	0				0	
26				.20	.02	0	0				0	
27				.10	.01	0	0				0	
28				.09	.01	0	0				0	
29				.08	-----	0	0				0	
30				.07	-----	0	0				0	
31		-----		.06	-----	.01	-----		-----		0	-----
TOTAL	0	0	0	105.28	.83	.57	.12	0	0	0	4.6	0
MEAN	0	0	0	3.40	.030	.018	.004	0	0	0	.15	0
MAX	0	0	0	33	.06	.17	.07	0	0	0	3.5	0
MIN	0	0	0	0	.01	0	0	0	0	0	0	0
AC-FT	0	0	0	209	1.6	1.1	.2	0	0	0	9.1	0

CAL YR 1973 TOTAL 353.01 MEAN .97 MAX 23 MIN 0 AC-FT 700
WTR YR 1974 TOTAL 111.40 MEAN .31 MAX 33 MIN 0 AC-FT 221

PEAK DISCHARGE (BASE, 50 FT³/S).--Jan. 8 (0700) 66 ft³/s (2.88 ft).

11033000 WEST FORK SAN LUIS REY RIVER NEAR WARNER SPRINGS, CALIF.

LOCATION.--Lat 33°17'48", long 116°45'32", in San Jose del Valle Grant, San Diego County, on left bank 0.2 mi (0.3 km) upstream from Fink Road, 2.6 mi (4.2 km) upstream from mouth, and 7.5 mi (12.1 km) west of Warner Springs.

DRAINAGE AREA.--25.5 mi² (66.0 km²).

PERIOD OF RECORD.--January 1913 to November 1915, October 1956 to current year. Low-flow records not equivalent prior to Nov. 5, 1971, due to undetermined amount of underflow between sites.

GAGE.--Water-stage recorder. Altitude of gage is 2,800 ft (853 m), from topographic map. Prior to Oct. 1, 1956, at different datum. Prior to Nov. 5, 1971, at site 500 ft (152 m) downstream at same datum.

AVERAGE DISCHARGE.--19 years (1913-15, 1957-74), 7.24 ft³/s (0.205 m³/s), 5,250 acre-ft/yr (6.47 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 294 ft³/s (8.33 m³/s) Jan. 8 (gage height, 11.41 ft or 3.478 m); no flow many days.

Period of record: Maximum discharge, 4,200 ft³/s (119 m³/s) Dec. 6, 1966 (gage height, 11.87 ft or 3.618 m), from rating curve extended above 250 ft³/s (7.08 m³/s) on basis of slope-area measurement of maximum flow; no flow at times in most years.

REMARKS.--Records good. No regulation or diversion above station.

REVISIONS.--The figures of peak discharge for water year 1973 have been revised as shown in the following table. They supersede figures published in WRD Calif. 1973.

REVISED PEAK DISCHARGE.--Jan. 17 (0130) 102 ft³/s (10.75 ft); Jan. 19 (0500) 124 ft³/s (10.85 ft); Feb. 11 (1700) 371 ft³/s (11.58 ft); Feb. 13 (0445) 195 ft³/s (11.11 ft); Mar. 7 (0230) 159 ft³/s (10.99 ft); Mar. 8 (1545) 122 ft³/s (10.84 ft); Mar. 11 (1630) 195 ft³/s (11.11 ft); Mar. 13 (2045) 139 ft³/s (10.91 ft); Mar. 22 (0415) 195 ft³/s (11.11 ft).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	2.8	1.4	3.1	1.8	.51	.04	.02	.01
2				0	2.5	4.4	81	1.9	.44	.04	.03	.01
3				0	2.2	7.2	18	2.1	.39	.05	.04	0
4				0	2.1	6.2	7.8	2.1	.41	.04	.04	0
5				.18	2.3	4.8	5.7	2.3	.35	.03	.04	.01
6				1.6	2.2	4.0	4.8	2.3	.30	.03	.03	0
7				53	2.0	5.2	4.0	2.2	.28	.03	.03	0
8				154	1.8	38	4.0	1.9	.28	.04	.03	0
9				30	1.6	16	3.3	1.7	.27	.04	.03	0
10				17	1.6	26	3.3	1.6	.24	.05	.03	0
11				9.3	1.6	27	3.0	1.5	.22	.05	.02	0
12				8.2	1.6	28	3.0	1.2	.21	.04	.02	0
13				10	1.6	21	3.0	1.0	.20	.04	.03	0
14				8.9	1.6	13	3.0	1.0	.17	.05	.03	0
15				7.1	1.6	9.6	3.0	1.2	.14	.05	.03	0
16				6.5	1.4	7.2	3.0	1.2	.13	.04	.04	0
17				13	1.4	5.7	2.6	1.0	.14	.05	.03	0
18				15	1.4	5.5	2.6	1.0	.13	.05	.03	0
19				8.4	1.4	4.0	2.6	1.2	.12	5.7	.03	0
20				8.6	1.6	3.3	2.6	1.4	.10	.22	.03	0
21				17	1.6	3.3	2.6	1.2	.11	.03	.04	0
22				7.4	1.4	3.3	2.6	1.0	.10	.04	.04	0
23				5.5	1.4	3.3	2.6	.87	.08	.05	.03	0
24				4.6	1.4	3.3	2.6	.82	.07	.04	.03	0
25				4.1	1.2	3.3	2.6	.68	.07	.03	.03	0
26				3.8	1.2	3.3	2.6	.57	.05	.02	.02	0
27				3.6	1.2	3.3	2.3	.52	.04	.02	.02	0
28				3.3	1.2	3.3	2.3	.52	.03	.02	.02	0
29				3.2	-----	3.3	2.2	.49	.04	.03	.02	0
30				3.0	-----	3.3	1.9	.47	.04	.03	.01	0
31		-----		3.0	-----	3.3	-----	.52	-----	.02	.01	-----
TOTAL	0	0	0	409.28	46.9	273.8	187.7	39.26	5.46	7.01	.88	.03
MEAN	0	0	0	13.2	1.68	8.83	6.26	1.27	.19	.23	.028	.001
MAX	0	0	0	154	2.8	38	81	2.3	.51	5.7	.04	.01
MIN	0	0	0	0	1.2	1.4	1.9	.47	.03	.02	.01	0
AC-FT	0	0	0	812	93	543	372	78	11	14	1.7	.06

CAL YR 1973 TOTAL 3,130.27 MEAN 8.58 MAX 195 MIN 0 AC-FT 6,210
WTR YR 1974 TOTAL 970.52 MEAN 2.66 MAX 154 MIN 0 AC-FT 1,930

PEAK DISCHARGE (BASE, 100 FT³/S).--Jan. 8 (0330) 294 ft³/s (11.41 ft); Apr. 2 (0845) 197 ft³/s (11.15 ft).

11037700 PAUMA CREEK NEAR PAUMA VALLEY, CALIF.

LOCATION.--Lat 33°20'10", long 116°58'25", in Pauma Grant, San Diego County, on right bank 0.3 mi (0.5 km) downstream from unnamed tributary, and 2.2 mi (3.5 km) north of Pauma Valley.

DRAINAGE AREA.--11.0 mi² (28.5 km²).

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder; water-stage recorder and Parshall flume on diversion. Altitude of gage is 1,240 ft (378 m), from topographic map.

AVERAGE DISCHARGE (Creek only).--10 years, 3.43 ft³/s (0.0971 m³/s), 2,490 acre-ft/yr (3.1 hm³/yr).
(Combined creek and diversion).--10 years, 4.14 ft³/s (0.1172 m³/s), 3,000 acre-ft/yr (3.7 hm³/yr).

EXTREMES (Creek only).--Current year: Maximum discharge, 90 ft³/s (2.55 m³/s) Apr. 2 (gage height, 3.43 ft or 1.046 m); no flow Oct. 1 to Nov. 17, July 29 to Sept. 25.

Period of record: Maximum discharge, 2,100 ft³/s (59.5 m³/s) Dec. 6, 1966 (gage height, 8.60 ft or 2.62 m), from rating curve extended above 110 ft³/s (3.1 m³/s) on basis of slope-area measurement at gage height 7.26 ft (2.213 m); no flow much of each year.

(Combined flow).--Current year: Maximum discharge, 90 ft³/s (2.55 m³/s) Apr. 2; minimum daily, 0.07 ft³/s (0.002 m³/s) Aug. 30, Sept. 1.

Period of record: Maximum discharge, 2,100 ft³/s (59.5 m³/s) Dec. 6, 1966; minimum daily, 0.04 ft³/s (0.001 m³/s) July 29 to Aug. 2, 1972.

REMARKS.--Records good. No regulation above station. Pauma Valley Water Co. diverts from a site 0.2 mi (0.3 km) upstream. For records of combined discharge of Pauma Creek and Pauma Valley Water Co.'s diversion, see following page.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.34	1.2	2.7	.52	2.7	.56	.12	.06		0
2		0	.42	1.2	2.6	3.4	34	.56	.11	.07		0
3		0	.56	.72	2.5	5.8	12	.56	.11	.06		0
4		0	.43	1.1	2.3	3.3	7.6	.56	.09	.06		0
5		0	.37	4.1	2.2	2.4	5.6	.77	.09	.05		0
6		0	.37	3.8	2.1	2.7	5.0	.68	.08	.05		0
7		0	.34	18	2.0	2.7	4.1	.52	.07	.05		0
8		0	.31	41	1.8	18	3.4	.46	.09	.06		0
9		0	.31	11	1.7	8.8	3.3	.46	.07	.06		0
10		0	.40	5.8	1.6	6.2	3.3	.46	.07	.06		0
11		0	.29	4.0	1.5	5.8	3.1	.43	.07	.06		0
12		0	.31	3.2	1.4	6.9	2.8	.37	.06	.06		0
13		0	.31	2.9	1.4	9.0	2.6	.37	.06	.05		0
14		0	.31	2.8	1.4	11	2.3	.43	.07	.05		0
15		0	.31	2.7	1.2	10	1.8	.43	.15	.05		0
16		0	.31	2.7	1.1	8.8	1.6	.40	.14	.09		0
17		0	.31	3.4	1.1	7.1	1.5	.37	.11	.09		0
18		3.4	.31	5.5	1.4	6.5	1.4	.52	.11	.09		0
19		.92	.31	4.3	1.2	5.6	1.4	.52	.11	.08		0
20		.25	.31	4.4	.92	5.1	1.4	.37	.11	.06		0
21		.19	.31	10	.77	4.8	1.2	.23	.10	.04		0
22		.23	.31	6.5	.68	4.1	1.0	.23	.10	.03		0
23		.92	.34	4.6	.64	4.0	.98	.21	.09	.03		0
24		.60	.37	4.4	.60	3.6	.98	.19	.09	.02		0
25		.43	.40	4.0	.56	3.3	.92	.17	.10	.01		0
26		.37	.40	3.8	.52	3.2	.87	.17	.08	.01		.25
27		.37	.40	3.6	.52	3.6	.87	.17	.06	.01		.02
28		.31	.46	2.9	.52	3.3	.77	.17	.06	.01		.01
29		.27	.49	2.9	-----	2.9	.68	.17	.06	0		.01
30		.27	.49	2.8	-----	2.7	.60	.14	.06	0		.01
31		-----	.49	2.7	-----	2.7	-----	.11	-----	0		-----
TOTAL	0	8.65	11.79	172.02	38.93	168.22	109.77	11.76	2.69	1.42	0	.30
MEAN	0	.29	.38	5.55	1.39	5.43	3.66	.38	.090	.046	0	.010
MAX	0	3.4	.82	41	2.7	18	34	.77	.15	.09	0	.25
MIN	0	0	.29	.72	.52	.52	.60	.11	.06	0	0	0
AC-FT	0	17	22	341	77	334	218	23	5.3	2.8	0	.6

CAL YR 1973 TOTAL 1,191.43 MEAN 3.26 MAX 34 MIN 0 AC-FT 2,360
WTR YR 1974 TOTAL 525.55 MEAN 1.44 MAX 41 MIN 0 AC-FT 1,040

PEAK DISCHARGE (BASE, 50 FT³/S).--Jan. 8 (0500) 72 ft³/s (3.27 ft); Apr. 2 (0800) 90 ft³/s (3.43 ft).

SAN LUIS REY RIVER BASIN

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11037700 PAUMA CREEK NEAR PAUMA VALLEY, CALIF.--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF PAUMA CREEK AND PAUMA VALLEY
WATER CO.'S DIVERSION NEAR PAUMA VALLEY, CALIF., WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.17	.23	.85	1.6	3.2	1.3	3.2	1.8	1.1	.25	.15	.07
2	.20	.27	1.4	1.6	3.1	3.9	34	1.8	1.1	.29	.15	.08
3	.22	.32	1.1	1.1	3.0	6.1	12	1.8	1.1	.26	.16	.08
4	.21	.33	.94	1.5	2.8	3.6	8.0	1.8	1.1	.23	.16	.08
5	.18	.33	.88	4.5	2.7	3.1	6.0	1.8	1.0	.19	.17	.08
6	.23	.32	.88	4.2	2.6	3.0	5.4	1.8	1.0	.17	.16	.08
7	.29	.33	.85	18	2.4	3.0	4.4	1.8	1.0	.18	.15	.09
8	.32	.33	.82	41	2.2	18	3.6	1.8	1.0	.22	.14	.09
9	.37	.34	.82	11	2.1	8.9	3.4	1.8	.95	.23	.16	.09
10	.37	.32	.81	5.9	2.0	6.5	3.4	1.8	.91	.25	.16	.08
11	.33	.31	.78	4.1	1.8	6.3	3.2	1.7	.83	.30	.17	.08
12	.30	.30	.77	3.3	2.0	7.4	2.9	1.7	.75	.31	.16	.10
13	.27	.35	.77	3.0	2.1	9.5	2.7	1.7	.68	.25	.16	.12
14	.25	.40	.77	2.9	2.1	11	2.4	1.7	.49	.24	.16	.13
15	.23	.41	.77	2.8	1.9	10	2.4	1.7	.30	.15	.15	.12
16	.20	.43	.72	2.9	1.8	9.2	2.4	1.7	.29	.09	.13	.11
17	.19	.46	.72	3.6	1.8	7.6	2.3	1.7	.32	.09	.12	.10
18	.19	3.9	.75	5.8	1.9	7.1	2.2	1.7	.35	.09	.10	.11
19	.19	1.8	.72	4.6	1.8	6.1	2.2	1.6	.38	.19	.10	.11
20	.20	1.0	.70	4.6	1.8	5.6	2.2	1.6	.38	.25	.12	.11
21	.23	.81	.72	10	1.6	5.3	2.2	1.4	.36	.23	.14	.10
22	.27	.77	.72	6.7	1.5	4.6	2.2	1.4	.33	.22	.14	.08
23	.31	1.5	.75	4.8	1.4	4.5	2.2	1.4	.31	.22	.13	.08
24	.33	1.1	.78	4.6	1.4	4.1	2.2	1.4	.31	.20	.11	.10
25	.30	.97	.81	4.1	1.4	3.8	2.1	1.3	.34	.17	.09	.33
26	.29	.90	.81	3.9	1.3	3.7	2.1	1.3	.30	.16	.09	.82
27	.27	.88	.81	4.0	1.3	4.1	2.1	1.2	.25	.16	.08	.56
28	.24	.82	.87	3.4	1.3	3.7	2.0	1.2	.23	.15	.08	.42
29	.22	.78	.90	3.4	-----	3.4	1.9	1.2	.22	.15	.08	.33
30	.20	.78	.88	3.3	-----	3.2	1.8	1.1	.22	.15	.07	.27
31	.21	-----	.88	3.2	-----	3.2	-----	1.1	-----	.15	.08	-----
TOTAL	7.78	21.79	25.75	179.4	56.3	180.8	129.1	48.8	17.90	6.19	4.02	5.00
MEAN	.25	.73	.83	5.79	2.01	5.83	4.30	1.57	.60	.20	.13	.17
MAX	.37	3.9	1.4	41	3.2	18	34	1.8	1.1	.31	.17	.82
MIN	.17	.23	.70	1.1	1.3	1.3	1.8	1.1	.22	.09	.07	.07
AC-FT	15	43	51	356	112	359	256	97	36	12	8.0	9.9

CAL YR 1973 TOTAL 1,367.46 MEAN 3.75 MAX 34 MIN .11 AC-FT 2,710
WTR YR 1974 TOTAL 682.83 MEAN 1.87 MAX 41 MIN .07 AC-FT 1,350

PEAK DISCHARGE (BASE, 50 FT³/S).--Same as those listed on previous page,

SAN LUIS REY RIVER BASIN

11040000 SAN LUIS REY RIVER AT MONSERATE NARROWS, NEAR PALA, CALIF.

LOCATION.--Lat 33°20'14", long 117°08'07", in SW¼SE¼NW¼ sec.6, T.10 S., R.2 W., San Diego County, on left bank 4 mi (6 km) southwest of Pala, and 6 mi (10 km) northeast of Bonsall.

DRAINAGE AREA.--373 mi² (966 km²).

PERIOD OF RECORD.--December 1935 to March 1938 (fragmentary), April 1938 to November 1941, October 1946 to current year.

GAGE.--Water-stage recorder. Datum of gage is 270.82 ft (82.546 m) above mean sea level (levels by State of California). Prior to October 1946, at same site at different datum. Oct. 22, 1946, to Nov. 30, 1954, at datum 1.0 ft (0.30 m) higher.

AVERAGE DISCHARGE.--31 years (1938-41, 1946-74), 6.56 ft³/s (0.186 m³/s), 4,750 acre-ft/yr (5.86 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 21 ft³/s (0.59 m³/s) Mar. 8 (gage height, 4.28 ft or 1.305 m); no flow for several months.

Period of record: Maximum gage height, 8.7 ft³/s (2.652 m) Feb. 7, 1937, datum then in use (discharge not determined); maximum discharge known, 7,000 ft³/s (198 m³/s) Dec. 6, 1966 (gage height, 6.70 ft or 2.042 m); no flow at times in most years.

REMARKS.--Records good. Flow regulated by Lake Henshaw, capacity, 194,300 acre-ft (240 hm³). Several diversions above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	.58	.53	1.0	.34				
2				0	1.0	.71	2.6	.30				
3				0	.64	1.2	1.6	.26				
4				0	.64	1.0	1.2	.22				
5				0	.58	.92	1.0	.22				
6				0	.53	1.0	.92	.22				
7				1.5	.43	1.1	1.2	.22				
8				8.6	.43	9.0	1.0	.22				
9				2.5	.48	3.4	1.0	.26				
10				1.0	.48	1.9	1.0	.26				
11				.78	.53	1.6	.92	.26				
12				.71	.53	1.4	.85	.26				
13				.58	.53	1.4	.78	.26				
14				.53	.53	1.4	.71	.26				
15				.53	.58	1.4	.64	.26				
16				.53	.64	1.4	.58	.26				
17				.53	.71	1.3	.58	.22				
18				.43	.58	1.4	.58	.19				
19				.48	.64	1.4	.58	.19				
20				.53	.71	1.4	.53	.16				
21				.53	.58	1.4	.53	.19				
22				.53	.53	1.4	.48	.16				
23				.53	.58	1.4	.53	.13				
24				.58	.48	1.4	.43	.11				
25				.53	.53	1.3	.38	.11				
26				.53	.48	1.2	.38	.09				
27				.53	.53	1.3	.43	.07				
28				.53	.48	1.2	.38	.06				
29				.58	-----	1.1	.38	.05				
30				.58	-----	1.2	.34	.05				
31		-----		.58	-----	1.1	-----	.01	-----			-----
TOTAL	0	0	0	25.21	15.96	48.86	23.53	5.87	0	0	0	0
MEAN	0	0	0	.81	.57	1.58	.78	.19	0	0	0	0
MAX	0	0	0	8.6	1.0	9.0	2.6	.34	0	0	0	0
MIN	0	0	0	0	.43	.53	.34	.01	0	0	0	0
AC-FT	0	0	0	50	32	97	47	12	0	0	0	0

CAL YR 1973 TOTAL 312.72 MEAN .86 MAX 29 MIN 0 AC-FT 620
 WTR YR 1974 TOTAL 119.43 MEAN .33 MAX 9.0 MIN 0 AC-FT 237

11040200 KEYS CREEK TRIBUTARY AT VALLEY CENTER, CALIF.

LOCATION.--Lat 33°13'45", long 117°02'09", in NW¼SE¼SE¼ sec.12, T.11 S., R.2 W., San Diego County, on left bank 140 ft (43 m) upstream from bridge on Valley Center Road, 0.3 mi (0.48 km) downstream from unnamed tributary, and 0.8 mi (1.3 km) north of Valley Center.

DRAINAGE AREA.--7.65 mi² (19.81 km²).

PERIOD OF RECORD.--April 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,279.99 ft (390.141 m) above mean sea level (San Diego County Special District Services bench mark).

EXTREMES.--Current year: Maximum discharge, 304 ft³/s (8.61 m³/s) Jan. 8 (gage height, 3.86 ft or 1.177 m); no flow many days.
 Period of record: Maximum discharge, 304 ft³/s (8.61 m³/s) Jan. 8, 1974 (gage height, 3.86 ft or 1.177 m); no flow for part of each year.
 Flood of Jan. 25, 1969, 990 ft³/s (28 m³/s), by San Diego County Special District Services.

REMARKS.--Records good except flows above 150 ft³/s (4.2 m³/s), which are poor. No regulation above station. Some pumping for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.02	.05	.12	.18	.10	.12	.08	.02	.03		
2	.01	.03	.05	.08	.18	.15	1.7	.08	.04	.02		
3	.01	.03	.05	.08	.16	.15	.24	.08	.04	.01		
4	.01	.03	.05	2.8	.16	.13	.11	.10	.04	.01		
5	.01	.03	.05	8.0	.16	.12	.10	.10	.03	.01		
6	.02	.03	.05	2.8	.14	.12	.10	.10	.03	.01		
7	.02	.03	.04	51	.14	.26	.11	.08	.06	.01		
8	.03	.02	.04	70	.14	29	.09	.07	.05	.02		
9	.02	.02	.04	.86	.12	.57	.11	.08	.04	.02		
10	.02	.03	.04	.39	.12	.21	.10	.07	.05	.03		
11	.02	.03	.05	.29	.12	.21	.10	.06	.04	.04		
12	.01	.03	.05	.26	.10	.18	.10	.05	.04	.04		
13	.01	.03	.05	.23	.10	.18	.11	.05	.04	.04		
14	.01	.03	.06	.29	.10	.15	.11	.05	.03	.05		
15	.01	.04	.06	.50	.10	.15	.10	.06	.02	.05		
16	.01	.04	.06	.50	.10	.15	.10	.06	.02	.03		
17	0	.04	.06	.54	.10	.15	.11	.05	.02	.02		
18	0	.10	.05	.66	.10	.15	.10	.05	.03	0		
19	0	.05	.05	.54	.10	.15	.10	.05	.03	0		
20	.01	.05	.05	.32	.10	.15	.09	.05	.03	0		
21	.01	.05	.06	.35	.10	.15	.09	.03	.02	0		
22	.02	.15	.06	.21	.10	.15	.09	.02	.02	0		
23	.02	1.4	.06	.21	.10	.15	.10	.02	.02	0		
24	.02	.07	.06	.21	.10	.15	.10	.03	.02	0		
25	.02	.06	.06	.21	.10	.15	.10	.03	.02	0		
26	.02	.06	.07	.21	.10	.15	.11	.02	.02	0		
27	.02	.05	.07	.20	.10	.27	.09	.02	.01	0		
28	.01	.05	.07	.29	.10	.15	.09	.02	.01	0		
29	.01	.05	.08	.20	-----	.12	.09	.02	.01	0		
30	.01	.05	.08	.20	-----	.12	.08	.03	.01	0		
31	.01	-----	.08	.18	-----	.10	-----	.02	-----	0		-----
TOTAL	.40	2.70	1.75	142.64	3.32	34.09	4.74	1.63	.86	.44	0	0
MEAN	.013	.090	.057	4.60	.12	1.10	.16	.053	.029	.014	0	0
MAX	.03	1.4	.08	70	.18	29	1.7	.10	.06	.05	0	0
MIN	0	.02	.04	.08	.10	.10	.08	.02	.01	0	0	0
AC-FT	.8	5.4	3.5	283	6.6	68	9.4	3.2	1.7	.9	0	0

CAL YR 1973 TOTAL 282.62 MEAN .77 MAX 32 MIN 0 AC-FT 561
 WTR YR 1974 TOTAL 192.57 MEAN .53 MAX 70 MIN 0 AC-FT 382

PEAK DISCHARGE (BASE, 40 FT³/S).--Jan. 8 (0330) 304 ft³/s (3.86 ft); Mar. 8 (1345) 105 ft³/s (3.02 ft).

11041000 SAN LUIS REY RIVER NEAR BONSALE, CALIF.

LOCATION.--Lat 33°15'13", long 117°14'48", in SW¼NE¼NE¼ sec.1, T.11 S., R.4 W., San Diego County, on left bank 0.7 mi (1.1 km) downstream from bridge on State Highway 76, and 2.8 mi (4.5 km) southwest of Bonsale.

DRAINAGE AREA.--513 mi² (1,330 km²).

PERIOD OF RECORD.--July 1916 to September 1918 (gage heights and discharge measurements only), October 1929 to current year.

GAGE.--Water-stage recorder. Datum of gage is 108.10 ft (32.949 m) above mean sea level. See WSP 1315-B, 1735 for history of changes prior to Sept. 16, 1946.

AVERAGE DISCHARGE.--45 years (1929-74), 17.5 ft³/s (0.496 m³/s), 12,680 acre-ft/yr (15.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,200 ft³/s (34.0 m³/s) Jan. 8 (gage height, 9.68 ft or 2.950 m); minimum daily, 0.20 ft³/s (0.006 m³/s) Sept. 1, 2, 4, 6.
Period of record: Maximum discharge, 18,100 ft³/s (513 m³/s) Mar. 3, 1938 (gage height, 16.04 ft or 4.889 m, present datum), from rating curve extended above 2,400 ft³/s (68.0 m³/s); no flow for part of most years.

REMARKS.--Records good. Flow regulated by Lake Henshaw, capacity, 194,300 acre-ft (240 hm³). Several diversions above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	2.7	7.0	8.3	12	9.5	11	5.3	2.6	.93	.83	.20
2	1.9	2.7	7.6	8.5	12	10	12	4.9	2.4	1.1	.97	.20
3	1.9	2.2	8.3	8.5	12	15	15	4.8	2.9	.96	.91	.30
4	1.9	2.3	8.0	9.2	12	16	14	4.5	3.1	.96	.78	.20
5	1.9	3.0	7.7	19	12	14	12	4.8	2.9	.96	.80	.40
6	2.0	3.2	7.6	28	12	14	11	5.4	2.6	.96	.85	.20
7	2.0	3.1	7.4	57	11	13	11	5.6	2.7	.70	1.0	.50
8	2.0	1.8	8.5	619	10	41	10	5.7	2.7	.83	.91	.25
9	2.1	2.0	8.0	127	9.8	104	9.2	5.8	2.7	.74	.76	.35
10	2.1	2.4	7.5	45	10	34	8.7	5.8	2.8	.66	.71	.36
11	2.1	3.1	7.3	32	9.8	24	8.4	5.6	2.6	.59	.57	.37
12	2.2	2.9	7.2	26	10	21	8.1	5.5	2.5	.57	.86	.32
13	2.2	3.2	7.3	23	10	18	7.6	5.8	2.4	.67	.96	.30
14	2.2	3.6	7.3	21	11	17	7.3	5.9	2.3	.82	.88	.30
15	2.3	3.1	7.1	20	11	16	7.2	5.4	2.2	.98	.59	.39
16	2.3	3.0	7.1	17	10	15	6.8	4.9	2.1	.88	.57	.57
17	2.3	4.2	7.3	17	11	14	6.4	4.7	2.3	.65	.49	.70
18	2.3	6.0	7.4	17	12	14	6.4	4.5	2.1	.49	.46	.76
19	2.4	8.3	7.0	16	10	13	6.2	4.3	1.9	.78	.66	.85
20	2.4	8.2	6.6	16	10	13	6.1	4.3	1.7	.96	.48	.99
21	2.4	6.9	6.8	17	10	13	6.0	4.0	1.5	.48	.38	1.1
22	2.4	6.2	7.0	17	10	12	6.1	3.9	1.5	1.1	.40	1.1
23	2.5	9.1	7.4	16	10	12	5.8	3.8	1.6	1.5	.50	1.2
24	2.6	13	7.5	15	10	12	5.3	3.7	1.5	1.3	.60	1.1
25	2.6	11	7.5	14	9.9	12	4.9	3.0	1.3	.72	.45	1.0
26	2.7	10	7.5	14	9.4	13	4.8	3.1	1.4	.27	.50	1.2
27	2.7	8.0	7.0	14	9.1	12	4.8	3.5	1.2	.34	.60	1.3
28	2.7	6.9	6.8	13	9.1	12	5.8	3.6	1.0	.32	.45	1.5
29	2.7	6.7	7.3	13	-----	12	6.1	3.1	.85	.55	.40	1.4
30	2.7	6.8	7.8	13	-----	12	5.6	2.9	.85	.55	.40	1.7
31	2.7	-----	7.9	12	-----	11	-----	2.9	-----	.64	.30	-----
TOTAL	70.8	155.6	229.7	1,292.5	295.1	568.5	239.6	141.0	62.20	23.96	20.02	21.11
MEAN	2.28	5.19	7.41	41.7	10.5	18.3	7.99	4.55	2.07	.77	.65	.70
MAX	2.7	13	8.5	619	12	104	15	5.9	3.1	1.5	1.0	1.7
MIN	1.6	1.8	6.6	8.3	9.1	9.5	4.8	2.9	.85	.27	.30	.20
AC-FT	140	309	456	2,560	585	1,130	475	280	123	48	40	42

CAL YR 1973 TOTAL 3,280.70 MEAN 8.99 MAX 122 MIN 1.0 AC-FT 6,510
WTR YR 1974 TOTAL 3,120.09 MEAN 8.55 MAX 619 MIN .20 AC-FT 6,190

11042000 SAN LUIS REY RIVER AT OCEANSIDE, CALIF.

LOCATION.--Lat 33°12'48", long 117°22'33", in SW¼SE¼SW¼ sec.14, T.11 S., R.5 W., San Diego County, on right bank 0.7 mi (1.1 km) upstream from bridge on Interstate Highway 5, 1.1 mi (1.8 km) upstream from mouth, and 1.2 mi (1.9 km) north of Oceanside.

DRAINAGE AREA.--558 mi² (1,450 km²).

PERIOD OF RECORD.--April 1912 to September 1914 (published as "near Oceanside"), January 1916, October 1929 to January 1942, October 1946 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 20 ft (6.1 m), from topographic map. April 1912 to September 1914, nonrecording gage at site 0.8 mi (1.3 km) upstream at different datum. January 1916, nonrecording gage 0.2 mi (0.3 km) downstream at different datum.

AVERAGE DISCHARGE.--42 years, (1912-14, 1929-41, 1946-74), 14.7 ft³/s (0.416 m³/s), 10,680 acre-ft/yr (13.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 506 ft³/s (14.3 m³/s) Jan. 9 (gage height, 9.78 ft or 2.981 m); minimum daily, 0.95 ft³/s (0.027 m³/s) several days in August.

Period of record: Maximum discharge, 95,600 ft³/s (2,710 m³/s) Jan. 27, 1916, from hydrograph based on discharge measurements; no flow for several months in most years.

REMARKS.--Records good. Flow regulated by Lake Henshaw, capacity, 194,300 acre-ft (786 hm³). Several diversions for irrigation and domestic use above station. AVERAGE DISCHARGE represents flow to ocean during period of record regardless of upstream development. Records of sediment discharge for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	6.0	9.3	9.0	21	16	20	4.6	3.2	1.8	1.5	1.0
2	5.5	5.3	9.8	9.2	21	20	22	4.8	3.4	2.0	1.5	1.0
3	5.4	4.4	9.7	9.2	19	23	20	4.8	3.5	1.8	1.2	1.0
4	5.3	5.9	9.7	11	19	23	21	4.4	4.1	1.8	1.0	1.1
5	5.4	5.6	9.3	17	21	25	22	4.4	3.1	1.8	.95	1.1
6	5.5	5.6	8.8	14	22	25	21	4.8	3.7	2.0	1.0	1.1
7	5.3	6.0	8.7	30	18	25	19	5.5	4.2	2.2	1.1	1.0
8	5.3	6.2	8.7	110	17	51	18	5.9	3.9	1.6	.95	1.5
9	5.6	6.2	8.2	349	16	73	16	5.7	3.8	2.2	.95	1.4
10	5.6	6.1	8.0	130	15	40	15	5.9	3.4	1.8	.95	1.8
11	5.2	5.9	8.4	80	14	68	15	5.9	3.2	1.8	.95	2.2
12	5.9	5.8	9.2	58	16	52	14	5.9	3.2	1.7	.95	1.8
13	5.6	5.3	9.5	44	16	43	14	6.0	2.9	1.4	.95	1.7
14	5.6	5.9	9.3	42	16	39	13	5.3	2.6	1.4	.95	1.2
15	5.6	5.4	8.8	31	15	35	13	5.5	2.7	1.8	.95	1.5
16	5.9	5.4	8.7	31	16	32	13	5.0	2.8	1.6	.95	1.6
17	6.1	7.9	9.0	36	17	30	13	5.1	2.9	1.5	.95	1.7
18	6.9	11	9.5	30	17	27	12	4.2	3.1	1.4	1.2	1.8
19	5.8	10	8.7	29	17	26	11	4.1	3.2	1.3	1.2	1.4
20	5.6	8.1	8.8	28	19	24	11	3.9	2.9	1.2	1.0	1.2
21	5.4	8.6	9.0	28	18	23	12	3.9	2.9	1.2	.95	1.8
22	5.8	8.6	10	26	17	22	10	3.9	3.1	1.2	.95	3.2
23	5.6	15	9.3	25	17	21	9.6	4.1	3.2	1.3	.95	3.1
24	5.9	9.8	9.0	24	16	21	7.9	3.8	3.1	1.3	.95	2.0
25	6.0	9.3	9.0	23	16	20	6.3	3.8	2.9	1.2	1.1	1.5
26	5.6	9.3	9.7	22	17	20	5.2	3.8	2.6	1.7	1.2	1.6
27	5.6	8.8	9.3	22	17	23	4.8	3.7	2.2	1.6	1.0	1.4
28	5.4	8.7	9.3	20	16	22	5.1	4.2	3.2	1.7	1.0	1.6
29	5.5	9.2	9.3	21	-----	20	4.8	3.8	2.7	1.4	1.0	2.7
30	5.5	9.3	10	21	-----	20	4.4	3.7	2.0	1.2	1.0	2.9
31	5.4	-----	8.8	22	-----	20	-----	3.4	-----	1.1	1.0	-----
TOTAL	174.9	224.1	282.8	1,351.4	486	979	393.1	143.8	93.7	49.0	32.25	49.9
MEAN	5.64	7.47	9.12	43.6	17.4	31.6	13.1	4.64	3.12	1.58	1.04	1.66
MAX	6.1	15	10	349	22	90	22	6.0	4.2	2.2	1.5	3.2
MIN	5.3	4.4	8.0	9.0	14	16	4.4	3.4	2.0	1.1	.95	1.0
AC-FT	347	445	561	2,680	964	1,940	780	285	186	97	64	99

CAL YR 1973 TOTAL 4,749.70 MEAN 13.0 MAX 132 MIN 4.8 AC-FT 9,420
WTR YR 1974 TOTAL 4,259.95 MEAN 11.7 MAX 349 MIN .95 AC-FT 8,450

SANTA MARGARITA RIVER BASIN

11042400 TEMECULA CREEK NEAR AGUANGA, CALIF.

LOCATION.--Lat 33°27'33", long 116°55'22", in NE¼SW¼SW¼ sec.19, T.8 S., R.1 E., Riverside County, on right bank 1.6 mi (2.6 km) downstream from Long Canyon, and 3.5 mi (5.6 km) northwest of Aguanga.

DRAINAGE AREA.--131 mi² (339 km²).

PERIOD OF RECORD.--August 1957 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,590 ft (485 m), from topographic map.

AVERAGE DISCHARGE.--17 years, 1.82 ft³/s (0.0515 m³/s), 3,170 acre-ft/yr (3.91 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 207 ft³/s (5.86 m³/s) Jan. 7 (gage height, 3.19 ft or 0.972 m); no flow many days.

Period of record: Maximum discharge, 3,540 ft³/s (100 m³/s) Apr. 3, 1958 (gage height, 6.57 ft or 2.003 m), from rating curve extended above 1,200 ft³/s (34 m³/s); no flow at times in each year.

REMARKS.--Records good to 50 ft³/s (1.4 m³/s) and fair above. No regulation above station. Pumping for irrigation above station.

DISCHARGE. IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.22	.33	.71	.91	2.9	1.5	2.6	1.3	.49	.13	.08	0
2	.28	.39	.77	1.2	2.6	1.7	4.1	1.3	.47	.13	.08	0
3	.38	.39	.77	1.2	2.1	3.7	4.7	1.3	.46	.12	.06	0
4	.39	.45	.77	1.6	2.1	3.3	3.7	1.2	.44	.04	0	0
5	.35	.47	.77	8.7	2.1	2.5	3.0	1.2	.42	0	0	0
6	.37	.47	.77	4.7	2.1	2.2	2.7	1.2	.42	.08	.05	.02
7	.40	.45	.75	57	2.1	2.2	2.5	1.2	.42	.07	0	.02
8	.43	.42	.73	100	1.9	19	2.4	1.1	.46	.07	0	0
9	.47	.42	.74	23	1.9	15	2.3	1.1	.40	.07	.07	0
10	.45	.35	.76	12	1.9	11	2.1	1.1	.35	.08	.09	0
11	.33	.31	.75	8.5	1.9	9.4	2.0	1.0	.28	.03	0	0
12	.30	.39	.77	6.7	1.9	7.7	2.0	1.0	.25	.06	0	0
13	.24	.47	.77	5.9	1.9	7.0	1.9	1.0	.23	.01	.07	0
14	.18	.69	.77	5.4	1.9	6.3	1.8	1.0	.21	.02	.09	0
15	.21	.43	.74	5.1	1.9	5.7	1.8	.96	.20	.06	.03	0
16	.20	.58	.73	4.7	1.7	5.3	1.7	.94	.19	.03	.09	0
17	.18	.64	.75	4.6	1.7	5.0	1.7	.92	.18	.03	.07	0
18	.16	1.5	.77	4.6	1.7	4.3	1.6	.90	.17	.02	0	0
19	.18	.96	.67	4.4	1.7	4.0	1.6	.90	.17	.03	.03	0
20	.18	.84	.66	4.3	1.7	3.9	1.6	1.3	.16	.21	.14	0
21	.24	.62	.69	4.3	1.7	3.8	1.5	1.0	.16	.19	.07	0
22	.33	.62	.65	3.9	1.5	3.6	1.5	.90	.15	.15	.14	0
23	.43	1.1	.66	3.7	1.5	3.4	1.5	.80	.15	.14	.17	0
24	.47	.88	.68	3.5	1.5	3.3	1.4	.74	.14	.11	.21	0
25	.42	.88	.66	3.4	1.5	3.1	1.4	.68	.14	.11	.14	0
26	.35	.85	.67	3.3	1.5	3.0	1.4	.66	.14	.10	0	0
27	.30	.77	.69	3.3	1.5	3.0	1.4	.63	.13	.03	.09	.03
28	.22	.77	.69	3.2	1.5	3.0	1.3	.60	.13	.05	.11	.10
29	.30	.73	.69	3.1	-----	2.9	1.3	.57	.13	.10	.11	.17
30	.28	.69	.73	3.0	-----	2.8	1.3	.54	.13	.10	.11	.21
31	.29	-----	.77	3.0	-----	2.7	-----	.51	-----	.08	.09	-----
TOTAL	9.53	18.86	22.50	302.21	51.9	155.3	61.8	29.55	7.77	2.45	2.19	.55
MEAN	.31	.63	.73	9.75	1.85	5.01	2.06	.95	.76	.079	.071	.018
MAX	.47	1.5	.77	100	2.9	19	4.7	1.3	.49	.21	.21	.21
MIN	.16	.31	.65	.91	1.5	1.5	1.3	.51	.13	0	0	0
AC-FT	19	37	45	599	103	308	123	59	15	4.9	4.3	1.1

CAL YR 1973 TOTAL 1,566.34 MEAN 4.29 MAX 73 MIN 0 AC-FT 3,110
WTR YR 1974 TOTAL 664.61 MEAN 1.82 MAX 100 MIN 0 AC-FT 1,320

PEAK DISCHARGE (BASE, 50 FT³/S).--Jan. 7 (2145) 207 ft³/s (3.19 ft).

NOTE.--No gage-height record Apr. 5 to June 6.

11042500 TEMECULA CREEK AT VAIL DAM, CALIF.

LOCATION.--Lat 33°29'44", long 116°58'33", in Pauba Grant, Riverside County, at Vail Dam 0.2 mi (0.3 km) downstream from Arroyo Seco, and 10 mi (16 km) east of Temecula.

DRAINAGE AREA.--320 mi² (829 km²).

PERIOD OF RECORD.--October 1948 to current year. January 1923 to October 1930 at site 200 ft (61 m) downstream and October 1930 to September 1948 at site 500 ft (152 m) downstream published as "at Nigger Canyon, near Temecula"; records not equivalent owing to change in natural water loss resulting from creation of Vail Lake. October 1948 to September 1951 published as "at Nigger Canyon, near Temecula"; records are for draft and spill only from Vail Lake. October 1951 to September 1955, published as "at Vail Dam, near Temecula."

GAGE.--Water-stage recorder with rain-gage attachment. National Weather Service type nonrecording rain gage 0.2 mi (0.3 km) upstream. Datum of gage is 1,350.0 ft (411.48 m) above mean sea level (levels by Bureau of Reclamation); gage readings have been reduced to elevations above mean sea level. Water-stage recorder at site 500 ft (152 m) downstream measures release and spill.

AVERAGE DISCHARGE.--25 years (1923-48), 14.5 ft³/s (0.411 m³/s), 10,500 acre-ft/yr (12.9 hm³/yr), see PERIOD OF RECORD; 26 years (1948-74), 5.47 ft³/s (0.155 m³/s), 3,960 acre-ft/yr (4.88 hm³/yr).

REMARKS.--Records of discharge represent all water reaching Vail Lake, including precipitation on lake surface. Discharge computed on basis of records of storage, release (draft), spill, and evaporation. Monthly evaporation from lake surface computed on basis of evaporation from a class A evaporation pan using coefficient of 0.77, excepting the period June 1964 to September 1965, when a 24-inch (0.61-m) diameter sunken screen pan with a coefficient of 0.98 was used. Area-capacity tables for lake are based on a survey made in 1947. Vail Dam completed in June 1949. Capacity of lake at spillway level, 49,370 acre-ft (60.9 hm³), elevation, 1,470.00 ft (448.056 m). Dead storage, 2.4 acre-ft (2,960 m³) below lowest outlet at elevation 1,352.5 ft (412.24 m) included in these records. There has been no spill since Nov. 13, 1948, date of closure. Water is released as required down Temecula Creek for diversion about 1 mi (1.6 km) below dam. Monthly precipitation, in inches, from National Weather Service type nonrecording rain gage is as follows: November, 1.77; December, 0.11; January, 3.57; March, 1.49; April, 0.15; September, 0.02; the water year, 7.11.

MONTHLY DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)a	Contents (acre- feet)	Change in contents (acre- feet)	Draft (acre- feet)b	Evapo- ration (acre- feet)	Discharge (acre- feet)
Vail Lake						
Sept. 30.....	1,440.38	23,050	--	--	--	--
Oct. 31.....	1,439.98	22,770	-280	1	302	23
Nov. 30.....	1,439.89	22,700	-70	1	152	83
Dec. 31.....	1,439.10	22,150	-550	495	138	83
CAL YR 1973.....	--	--	+607	768	3,498	4,873
Jan. 31.....	1,439.96	22,750	+600	0	110	710
Feb. 28.....	1,439.86	22,680	-70	c 7	204	141
Mar. 31.....	1,440.07	22,830	+150	c 14	173	337
Apr. 30.....	1,439.71	22,580	-250	c 36	344	130
May 31.....	1,439.16	22,190	-390	c 86	375	71
June 30.....	1,438.45	21,710	-480	163	469	152
July 31.....	1,437.82	21,280	-430	120	489	179
Aug. 31.....	1,437.21	20,870	-410	66	467	123
Sept. 30.....	1,436.65	20,500	-370	77	375	82
WTR YR 1974.....	--	--	-2,550	1,066	3,598	2,114

a Elevation at 2400 hours.

b Draft, in acre-ft, was all direct pumping from lake except for the month of December which was all release. Records of pumping furnished by Rancho California.

c Pumpage estimated on basis of 4 month total.

NOTE.--For months when inflow to the lake was small and other quantities were large, discordant figures of discharge may appear. This arises primarily from the difficulty of computing discharge as a residual of several larger quantities, which are not susceptible to measurement with a precision necessary to produce a final answer within desirable limits of accuracy.

11043000 MURRIETA CREEK AT TEMECULA, CALIF.

LOCATION.--Lat 33°28'47", long 117°08'35", in Temecula Grant, Riverside County, on right bank 0.4 mi (0.6 km) upstream from mouth, and 1.0 mi (1.6 km) south of Temecula.

DRAINAGE AREA.--222 mi² (575 km²)

PERIOD OF RECORD.--October 1924 to current year. Monthly discharge only October 1924 to September 1930, published in WSP 1315-B.

GAGE.--Water-stage recorder. Concrete low-water control destroyed June 25, 1971. Altitude of gage is 970 ft (296 m), from topographic map. See WSP 1735 for history of changes prior to Dec. 16, 1938.

AVERAGE DISCHARGE.--50 years, 8.71 ft³/s (0.247 m³/s), 6,310 acre-ft/yr (7.78 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,420 ft³/s (40.2 m³/s) Jan. 8 (gage height, 4.96 ft or 1.512 m); minimum daily, 0.17 ft³/s (0.005 m³/s) Apr. 11-24, May 1-3, 5-7.
Period of record: Maximum discharge, 17,500 ft³/s (496 m³/s) Jan. 23, 1943 (gage height, 13.82 ft or 4.212 m); minimum daily, 0.02 ft³/s (0.001 m³/s) at times in 1969.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. No regulation above station. Pumping above station for irrigation of about 2,500 acres (10.1 km²).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.40	.82	.72	1.7	.85	.95	.67	.17	.44	.38	.30	.33
2	.40	.82	.72	1.0	.67	3.1	1.2	.17	.44	.44	.33	.33
3	.40	.82	.63	1.0	.95	2.9	.95	.17	.51	.44	.38	.33
4	.40	.82	.63	9.0	.95	1.6	.75	.20	.51	.38	.38	.44
5	.40	.82	.63	35	1.1	1.1	.67	.17	.44	.33	.38	.44
6	.40	.82	.63	14	.85	.95	.59	.17	.75	.33	.38	.44
7	.40	.93	.63	251	.75	1.6	.67	.17	1.0	.33	.38	.44
8	.47	.93	.63	568	.75	37	.44	.24	.95	.33	.38	.38
9	.55	.93	.63	24	.85	5.0	.20	.20	.70	.36	.38	.38
10	.47	.93	.72	4.0	.85	1.6	.20	.20	.58	.40	.38	.38
11	.93	.93	.72	2.5	.85	1.6	.17	.20	.50	.44	.38	.38
12	.93	.93	.72	1.5	.95	1.3	.17	.20	.45	.51	.38	.38
13	.72	1.0	.72	1.0	.95	1.2	.17	.28	.40	.44	.38	.38
14	.63	1.2	.72	1.0	.95	1.2	.17	.20	.38	.38	.38	.44
15	.72	1.2	.72	1.1	.95	1.1	.17	.20	.36	.35	.38	.44
16	.72	1.2	.72	1.1	.95	1.1	.17	.67	.36	.33	.38	.44
17	.72	1.3	.82	1.1	.95	1.1	.17	.59	.35	.32	.38	.44
18	.72	4.1	.82	1.1	.95	.95	.17	.44	.35	.32	.38	.44
19	.72	1.9	.72	.95	.95	.85	.17	.28	.34	.31	.38	.51
20	.72	1.6	.55	.95	.95	.85	.17	.28	.34	.30	.38	.59
21	.82	1.7	.63	1.2	.85	.75	.17	.28	.34	.30	.38	.59
22	.82	1.7	.93	1.1	.85	.75	.17	.33	.34	.30	.38	.44
23	.93	3.5	.93	.95	.85	.75	.17	.33	.33	.30	.33	.38
24	.82	.82	.93	.95	.75	.75	.17	.33	.33	.30	.33	.33
25	.82	.63	.93	.95	.75	.75	.20	.38	.33	.30	.33	.33
26	.82	.63	.93	1.1	.75	.75	.24	.33	.34	.30	.33	.33
27	.82	.63	1.0	1.2	.75	.75	.24	.33	.34	.30	.33	.28
28	.82	.63	.93	1.1	.85	.67	.28	.38	.34	.30	.33	.28
29	.82	.63	.82	1.1	-----	.59	.33	.38	.36	.30	.33	.28
30	.82	.63	.82	.95	-----	.67	.38	.38	.36	.30	.33	.28
31	.82	-----	.82	.75	-----	.67	-----	.38	-----	.30	.33	-----
TOTAL	20.95	35.50	23.47	932.35	24.37	74.90	10.39	9.03	13.56	10.72	11.20	11.85
MEAN	.68	1.18	.76	30.1	.87	2.42	.35	.29	.45	.35	.36	.40
MAX	.93	4.1	1.0	568	1.1	37	1.2	.67	1.0	.51	.38	.59
MIN	.40	.63	.55	.75	.67	.59	.17	.17	.33	.30	.30	.28
AC-FT	42	70	47	1,850	48	149	21	18	27	21	22	24

CAL YR 1973 TOTAL 1,463.16 MEAN 4.01 MAX 451 MIN .25 AC-FT 2,900
WTR YR 1974 TOTAL 1,178.29 MEAN 3.23 MAX 568 MIN .17 AC-FT 2,340

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
1-5	0600	1.93	.72	3-8	1200	2.05	.82
1-8	0400	4.96	1,420				

NOTE.--No gage-height record Jan. 9-14, June 7 to July 2, July 7 to Aug. 2.

11044000 SANTA MARGARITA RIVER NEAR TEMECULA, CALIF.

LOCATION.--Lat 33°28'26", long 117°08'29", in Temecula Grant, Riverside County, on left bank at upper end of Temecula Canyon, 0.1 mi (0.2 km) downstream from Murrieta Creek, and 1.4 mi (2.3 km) south of Temecula.

DRAINAGE AREA.--588 mi² (1,520 km²).

PERIOD OF RECORD.--January 1923 to current year. Prior to October 1952, published as Temecula Creek at Railroad Canyon, near Temecula.

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 950 ft (290 m), from topographic map. Prior to Nov. 3, 1966, at site 100 ft (30.5 m) downstream at same datum.

AVERAGE DISCHARGE.--25 years (1923-48), 28.2 ft³/s (0.799 m³/s), 20,420 acre-ft/yr (25.2 hm³/yr); 26 years (1948-74), 10.0 ft³/s (0.283 m³/s), 7,270 acre-ft/yr (8.96 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,660 ft³/s (47.0 m³/s) Jan. 8 (gage height, 6.22 ft or 1.896 m); minimum daily, 1.6 ft³/s (0.045 m³/s) several days during July to September.
Period of record: Maximum discharge, 25,000 ft³/s (708 m³/s) Feb. 16, 1927 (gage height, 14.6 ft or 4.45 m, at site 100 ft or 30.5 m downstream), from rating curve extended above 10,000 ft³/s (283 m³/s); minimum daily, 0.30 ft³/s (0.009 m³/s) Aug. 18-22, 1965, regulation by construction work above station.

REMARKS.--Records good except those above 600 ft³/s (17.0 m³/s), which are fair. Flow partly regulated since November 1948 by Vail Lake (see sta 11042500). Pumping above station for irrigation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	2.7	3.2	3.9	3.8	3.8	3.4	2.7	2.4	2.0	1.7	1.6
2	2.2	2.8	3.2	4.4	3.8	11	4.6	2.7	2.3	2.3	1.8	1.6
3	2.2	2.8	3.2	5.0	3.8	8.2	3.6	2.8	2.3	2.1	1.8	1.6
4	2.1	2.7	3.2	8.0	4.2	5.1	3.5	2.7	2.5	2.0	1.7	1.6
5	2.2	2.8	3.2	42	4.3	4.1	3.3	2.6	2.5	2.0	1.8	1.7
6	2.1	2.8	3.2	21	4.1	3.8	3.3	2.6	2.8	1.8	1.8	1.6
7	2.2	2.9	3.2	338	3.8	5.4	3.2	2.6	3.4	2.0	1.9	1.7
8	2.4	2.9	3.2	615	3.8	54	3.1	2.5	3.4	2.0	1.8	1.6
9	2.6	2.9	3.2	25	3.8	13	2.7	2.5	2.6	2.1	1.8	1.7
10	2.3	2.9	3.2	9.7	3.8	6.1	2.5	2.5	2.4	2.1	2.0	1.6
11	3.1	2.9	3.2	6.9	4.0	5.3	2.5	2.4	2.6	2.3	1.8	1.7
12	3.2	2.9	3.2	6.2	4.6	4.6	2.5	2.4	2.7	2.3	1.8	1.8
13	2.8	3.0	3.4	5.4	4.6	4.1	2.5	2.8	2.2	2.1	1.9	1.8
14	2.6	3.0	3.4	5.1	4.0	4.2	2.4	2.5	2.2	2.1	2.0	1.9
15	2.6	3.0	3.4	5.0	3.9	4.1	2.4	2.6	2.1	2.1	1.9	2.0
16	2.5	3.0	3.4	5.1	4.1	3.8	2.5	3.4	2.1	2.0	1.8	2.1
17	2.5	3.2	3.4	5.1	4.1	3.6	2.5	3.6	2.1	1.8	1.9	2.1
18	2.5	8.0	3.4	5.1	3.9	3.2	2.5	3.4	2.1	1.8	1.9	2.1
19	2.5	4.5	3.2	4.9	3.6	3.2	2.6	3.1	2.1	1.8	1.9	2.1
20	2.5	3.5	2.9	4.6	3.6	3.3	2.7	2.8	2.0	1.8	2.1	2.2
21	2.7	3.6	3.2	4.8	3.6	3.4	2.6	2.9	2.1	1.6	1.9	2.1
22	2.7	3.7	3.4	4.7	3.7	3.3	2.8	2.7	2.1	1.6	1.8	2.1
23	3.1	6.9	3.4	4.6	3.8	3.0	2.7	2.9	2.0	1.7	1.6	2.0
24	2.9	3.5	3.4	4.6	3.8	3.0	2.8	3.0	2.0	2.0	1.7	1.8
25	2.8	3.5	3.4	4.5	3.8	3.5	2.8	3.1	2.0	1.8	1.6	2.1
26	2.7	3.4	3.4	4.4	3.8	3.8	2.8	3.0	1.9	1.7	1.6	2.1
27	2.6	3.3	3.4	4.5	3.8	4.1	2.8	2.9	1.9	1.6	1.6	2.0
28	2.5	3.3	3.4	4.5	4.0	3.8	2.8	3.1	1.8	1.8	1.7	2.0
29	2.6	3.2	3.5	4.1	-----	3.4	2.8	3.0	1.8	2.0	1.7	1.9
30	2.7	3.2	3.6	3.8	-----	3.4	3.2	2.9	1.8	1.7	1.6	1.9
31	2.6	-----	3.7	3.8	-----	3.6	-----	2.5	-----	1.8	1.6	-----
TOTAL	79.0	102.8	102.7	1,173.9	109.9	192.2	86.4	87.2	68.2	59.8	55.5	56.1
MEAN	2.55	3.43	3.31	37.9	3.93	6.20	2.88	2.81	2.27	1.93	1.79	1.87
MAX	3.2	8.0	3.7	615	4.6	54	4.6	3.6	3.4	2.3	2.1	2.2
MIN	2.0	2.7	2.9	3.3	3.6	3.0	2.4	2.4	1.8	1.6	1.6	1.6
AC-FT	157	204	204	2,330	218	381	171	173	135	119	110	111

CAL YR 1973 TOTAL 2,595.2 MEAN 7.11 MAX 501 MIN 1.6 AC-FT 5,150
WTR YR 1974 TOTAL 2,173.7 MEAN 5.96 MAX 615 MIN 1.6 AC-FT 4,310

SANTA MARGARITA RIVER BASIN

11044500 SANTA MARGARITA RIVER NEAR FALLBROOK, CALIF.

LOCATION.--Lat 33°23'54", long 117°15'44", in NE¼SE¼NE¼ sec.14, T.9 S., R.4 W., San Diego County, on right bank 180 ft (55 m) upstream from De Luz Road, 1.3 mi (2.1 km) northwest of Fallbrook, and 1.9 mi (3.1 km) downstream from Sandia Canyon.

DRAINAGE AREA.--644 mi² (1,668 km²).

PERIOD OF RECORD.--October 1924 to current year. Monthly discharge only for October and November 1924, published in WSP 1315-B.

GAGE.--Water-stage recorder. Concrete-road control since October 1955. Datum of gage is 267.96 ft (81.674 m) above mean sea level (levels by Bureau of Reclamation). Prior to Oct. 1, 1955, at site 1.7 mi (2.7 km) upstream at different datum. Records equivalent except those for extreme low flows.

AVERAGE DISCHARGE.--24 years (1924-48), 35.4 ft³/s (1.0 m³/s), 25,630 acre-ft/yr (31.6 hm³/yr); 26 years (1948-74), 12.3 ft³/s (0.348 m³/s), 8,910 acre-ft/yr (11.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,610 ft³/s (45.6 m³/s) Jan. 8 (gage height, 8.57 ft or 2.612 m), from rating curve extended above 960 ft³/s (27.2 m³/s) on basis of computation of flow over road at gage height 12.50 ft (3.81 m); no flow July 18 to Aug. 19, Aug. 21, Aug. 26 to Sept. 18.
Period of record: Maximum discharge, 33,100 ft³/s (937 m³/s) Feb. 16, 1927 (gage height, 15.6 ft or 4.75 m, site and datum then in use), from rating curve extended above 8,800 ft³/s (249 m³/s) on basis of slope-area measurement of maximum flow; no flow at times in recent years.

REMARKS.--Records good. Flow partly regulated since November 1948 by Vail Lake (see sta 11042500). Several small diversions above station for irrigation. The Fairbrook Public Utility District reports no water pumped during the current year from a well in the streambed 2.1 mi (3.4 km) upstream from the station.

REVISIONS (WATER YEARS).--WRD Calif. 1972: 1971.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.78	1.5	3.2	4.3	6.4	5.7	6.4	3.1	1.6	.34	0	0
2	.78	1.8	3.6	5.3	6.4	9.6	8.9	3.0	1.6	.49	0	0
3	.78	1.9	3.4	4.5	6.1	9.5	8.0	3.0	1.6	.43	0	0
4	.78	2.0	3.2	10	6.0	8.0	6.6	3.1	1.8	.34	0	0
5	.80	2.0	3.2	60	6.2	7.5	6.0	3.3	1.9	.22	0	0
6	1.0	1.9	3.2	58	6.1	7.2	5.7	3.2	1.8	.23	0	0
7	1.1	2.0	3.1	163	5.9	11	5.5	3.1	2.3	.22	0	0
8	1.2	2.1	3.0	974	5.8	97	5.2	3.0	2.9	.16	0	0
9	1.3	2.3	3.0	85	5.6	49	5.2	3.0	2.6	.19	0	0
10	1.3	2.4	3.0	40	5.5	16	4.7	3.1	2.0	.22	0	0
11	1.1	2.0	3.1	20	5.5	12	4.6	2.8	2.0	.34	0	0
12	1.1	2.1	3.2	16	5.7	11	4.5	2.7	1.7	.33	0	0
13	1.4	2.1	3.3	13	6.0	9.4	4.3	2.8	1.9	.35	0	0
14	1.2	2.3	3.3	12	6.0	9.0	4.1	3.0	1.5	.42	0	0
15	1.2	2.4	3.4	11	5.7	8.5	3.8	2.9	1.2	.51	0	0
16	1.2	2.5	3.3	9.6	5.7	8.0	3.6	2.9	1.1	.29	0	0
17	1.1	2.9	3.3	9.2	5.7	7.5	3.7	3.2	.94	.09	0	0
18	.93	4.5	3.3	8.6	5.6	7.4	3.7	3.1	.91	0	0	0
19	.86	6.9	3.3	8.6	5.4	7.3	3.8	3.0	.84	0	0	.11
20	.93	4.4	3.3	8.4	5.2	7.2	3.9	2.6	.82	0	.02	.29
21	1.1	3.7	3.0	8.8	5.2	7.0	3.7	2.2	.71	0	0	.13
22	1.4	3.7	3.1	8.1	5.3	7.0	3.5	1.9	.66	0	.05	.16
23	1.7	7.6	3.6	7.5	5.4	7.0	3.6	1.9	.70	0	.09	.42
24	1.8	6.9	3.5	7.0	5.4	6.8	3.7	1.9	.62	0	.09	.70
25	1.8	4.3	3.5	7.0	5.4	6.8	3.5	1.8	.56	0	.04	.78
26	1.7	3.8	3.6	6.9	5.4	6.9	3.4	1.7	.50	0	0	.67
27	1.5	3.4	3.6	6.8	5.6	6.9	3.3	1.6	.41	0	0	.67
28	1.3	3.2	3.6	6.8	5.8	7.1	3.2	1.6	.27	0	0	.67
29	1.2	3.0	3.7	6.7	-----	6.8	3.2	1.6	.15	0	0	.67
30	1.2	3.1	3.6	6.7	-----	6.6	3.1	1.7	.23	0	0	.67
31	1.3	-----	3.7	6.6	-----	6.5	-----	1.6	-----	0	0	-----
TOTAL	36.84	94.7	103.2	1,599.4	160.0	383.2	136.4	79.4	37.82	5.17	.29	5.94
MEAN	1.19	3.16	3.33	51.6	5.71	12.4	4.55	2.56	1.26	.17	.009	.20
MAX	1.8	7.6	3.7	974	6.4	97	8.9	3.3	2.9	.51	.09	.78
MIN	.78	1.5	3.0	4.3	5.2	5.7	3.1	1.6	.15	0	0	0
AC-FT	73	188	205	3,170	317	760	271	157	75	10	.6	12
CAL YR 1973	TOTAL	3,735.54	MEAN	10.2	MAX	510	MIN	0	AC-FT	7,410		
WTR YR 1974	TOTAL	2,642.36	MEAN	7.24	MAX	974	MIN	0	AC-FT	5,240		

11046000 SANTA MARGARITA RIVER AT YSIDORA, CALIF.

LOCATION.--Lat 33°14'13", long 117°23'14", in NE¼SW¼NE¼ sec.10, T.11 S., R.5 W., San Diego County, on Camp Joseph H. Pendleton Naval Reservation, on left bank 1.7 mi (2.7 km) upstream from mouth, and 2.0 mi (3.2 km) southwest of Ysidora.

DRAINAGE AREA.--740 mi² (1,917 km²).

PERIOD OF RECORD.--February 1923 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5.00 ft (1.524 m) below mean sea level (U.S. Navy reference mark). See WSP 1735 for history of changes prior to Nov. 27, 1935. Nov. 27, 1935, to Feb. 25, 1970, at site 0.8 mi (1.3 km) upstream at different datum.

AVERAGE DISCHARGE.--51 years, 27.0 ft³/s (0.765 m³/s), 19,560 acre-ft/yr (24.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 921 ft³/s (26.1 m³/s) Jan. 8 (gage height, 12.02 ft or 3.664 m), from rating curve extended above 470 ft³/s (13.3 m³/s); no flow Oct. 1 to Jan. 7, Apr. 15 to Sept. 30.

Period of record: Maximum discharge, 33,600 ft³/s (952 m³/s) Feb. 16, 1927 (gage height, 18.00 ft or 5.486 m, site and datum then in use), on basis of slope-area measurement of maximum flow; no flow for parts of most years.

REMARKS.--Records poor. Flow partly regulated by Vail Lake since November 1948 (see sta 11042500). Diversions for irrigation on Rancho California (formerly Santa Margarita Ranch and Pauba Ranch). Conservation pools, 0.9 mi (1.4 km) upstream, detain low flow. Records of sediment discharge for the current year are published in Part 2 of this report. AVERAGE DISCHARGE represents flow to ocean during period of record, regardless of upstream development.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	2.9	1.4	2.0					
2				0	2.9	1.5	2.3					
3				0	2.9	1.9	2.0					
4				0	2.9	2.2	1.5					
5				0	2.4	10	1.0					
6				0	2.4	5.0	.90					
7				0	2.4	2.3	.80					
8				106	2.4	2.3	.70					
9				470	2.4	11	.60					
10				131	2.2	50	.50					
11				69	2.2	23	.40					
12				52	2.2	13	.30					
13				33	2.2	6.2	.20					
14				19	2.2	3.8	.10					
15				15	2.2	3.2	.05					
16				14	2.2	3.2	0					
17				13	2.2	3.2	0					
18				13	2.2	2.7	0					
19				11	2.2	2.4	0					
20				11	2.2	2.4	0					
21				10	1.9	2.4	0					
22				9.0	1.7	2.2	0					
23				8.0	1.7	2.2	0					
24				7.0	1.7	1.9	0					
25				6.0	1.7	1.9	0					
26				5.3	1.7	1.7	0					
27				4.6	1.7	3.2	0					
28				4.2	1.5	2.7	0					
29				3.7	-----	2.2	0					
30				3.3	-----	2.2	0					
31		-----		3.1	-----	2.2	-----		-----			-----
TOTAL	0	0	0	1,021.2	61.4	175.5	13.35	0	0	0	0	0
MEAN	0	0	0	32.9	2.19	5.66	.45	0	0	0	0	0
MAX	0	0	0	470	2.9	50	2.3	0	0	0	0	0
MIN	0	0	0	0	1.5	1.4	0	0	0	0	0	0
AC-FT	0	0	0	2,030	122	348	26	0	0	0	0	0
CAL YR 1973	TOTAL 3,492.87		MEAN 9.57	MAX 494	MIN 0	AC-FT 6,930						
WTR YR 1974	TOTAL 1,271.45		MEAN 3.48	MAX 470	MIN 0	AC-FT 2,520						

LAS FLORES CREEK BASIN

11046100 LAS FLORES CREEK NEAR OCEANSIDE, CALIF.

LOCATION.--Lat 33°17'32", long 117°27'21", in NW¼SE¼ sec.24, T.10 S., R.6 W., San Diego County, Camp Joseph H. Pendleton Naval Reservation, on upstream side and at center of bridge on Atchison, Topeka, and Santa Fe Railway, 0.5 mi (0.8 km) upstream from mouth, and 8.5 mi (13.7 km) northwest of Oceanside.

DRAINAGE AREA.--26.6 mi² (68.9 km²).

PERIOD OF RECORD.--May 1951 to September 1967, October 1969 to current year.

GAGE.--Water-stage recorder and multiple concrete culvert control. Altitude of gage is 35 ft (11 m), from topographic map.

AVERAGE DISCHARGE.--21 years, 0.58 ft³/s (0.0164 m³/s), 420 acre-ft/yr (518,000 m³/yr).

EXTREMES.--Current year: Maximum discharge, 9.7 ft³/s (0.27 m³/s) Jan. 8 (gage height, 0.63 ft or 0.192 m); no flow many days.

Period of record: Maximum discharge, 960 ft³/s (27.2 m³/s) Jan. 16, 1952 (gage height, 4.75 ft or 1.448 m), based on critical-depth determination of maximum flow; no flow for long periods in most years.

Flood of Feb. 25, 1969, reached a stage of 7.25 ft (2.210 m), from floodmarks (discharge, 4,200 ft³/s or 119 m³/s).

REMARKS.--Records good to 0.1 ft³/s (0.003 m³/s) and fair above. No regulation above station. Some pumping above station for irrigation.

REVISIONS (WATER YEARS).--WRD Calif. 1972: 1971.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	0	.01	.02	.01	.02	.01	.01	.01	.02	.02
2		0	0	.01	.01	.05	.02	.01	.01	.01	.02	.02
3		0	0	.01	.01	.02	.02	.01	.01	.01	.01	.02
4		0	0	.16	.02	.01	.01	.01	.01	.01	.01	.02
5		0	0	.03	.02	.01	.01	.01	.01	.01	.01	.02
6		0	0	.06	.01	.01	.01	.01	.01	.01	.01	.02
7		0	0	1.3	.01	.02	.01	.01	.01	.01	.01	.02
8		0	0	2.1	.01	.65	.01	.01	.01	.01	.01	.02
9		0	0	.06	.01	.03	.01	.01	.01	0	.01	.02
10		0	0	.03	.01	.02	.01	.01	.01	0	.01	.03
11		0	0	.03	.01	.02	.01	.01	.01	0	.01	.02
12		0	0	.02	.01	.02	.01	.01	.01	.01	.01	.02
13		0	.01	.02	.01	.02	.01	.01	.01	.01	.01	.02
14		0	.01	.02	0	.02	.01	.01	.01	.01	.01	.01
15		0	0	.02	.01	.02	.01	.01	.01	.01	.01	.02
16		.01	0	.02	.01	.02	.01	.01	.01	.01	.01	.02
17		.02	.01	.02	.01	.02	.01	.01	.01	.01	.02	.02
18		.02	.01	.02	.01	.02	.01	.01	.01	.01	.02	.02
19		.01	0	.02	.01	.02	.01	.01	.01	.01	.02	.02
20		.01	0	.02	.01	.02	.01	.01	.01	.01	.02	.02
21		.01	0	.02	.01	.02	.01	.01	.01	.01	.02	.02
22		.02	.01	.01	.01	.02	.01	.01	.01	.01	.02	.02
23		.02	.01	.01	.01	.02	.01	.01	.01	.01	.02	.02
24		0	.01	.01	.01	.02	.01	.01	.01	.01	.02	.02
25		0	.01	.01	.01	.02	.01	.01	.01	.01	.03	.02
26		0	.01	.02	.01	.02	.01	.01	.01	.01	.03	.02
27		0	.01	.01	.01	.04	.01	.01	.01	.01	.03	.02
28		0	.01	.01	.01	.02	.01	.01	.01	.01	.03	.02
29		0	.01	.01	-----	.02	.01	.01	.01	.01	.03	.02
30		0	.01	.01	-----	.02	.01	.01	.01	.01	.02	.02
31		-----	.01	.02	-----	.02	-----	.01	-----	.02	.03	-----
TOTAL	0	.12	.14	4.12	.30	1.27	.33	.31	.30	.29	.54	.60
MEAN	0	.004	.005	.13	.011	.041	.011	.010	.010	.009	.017	.020
MAX	0	.02	.01	2.1	.02	.65	.02	.01	.01	.02	.03	.03
MIN	0	0	0	.01	0	.01	.01	.01	.01	0	.01	.01
AC-FT	0	.2	.3	8.2	.6	2.5	.7	.6	.6	.6	1.1	1.2
CAL YR 1973	TOTAL 54.32	MEAN .15	MAX 12	MIN 0	AC-FT 108							
WTR YR 1974	TOTAL 8.32	MEAN .023	MAX 2.1	MIN 0	AC-FT 17							

PEAK DISCHARGE (BASE, 100 FT³/S).--No peak above base.

11046550 SAN JUAN CREEK AT SAN JUAN CAPISTRANO, CALIF.

LOCATION.--Lat 33°29'30", long 117°39'44", in SW¼SE¼NE¼ sec.12, T.8 S., R.8 W., Orange County, on left bank at Camino Capistrano bridge, 0.2 mi (0.3 km) upstream from Arroyo Trabuco, and 0.6 mi (1.0 km) south of San Juan Capistrano.

DRAINAGE AREA.--117 mi² (303 km²).

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 59.21 ft (18.05 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 228 ft³/s (6.46 m³/s) Jan. 8 (gage height, 3.29 ft or 1.003 m); minimum daily, 0.14 ft³/s (0.004 m³/s) Oct. 5, 6, 29.

Period of record: Maximum discharge, 445 ft³/s (12.6 m³/s) Feb. 11, 1973 (gage height, 4.35 ft or 1.326 m); no flow at times in most years.

Flood of Feb. 25, 1969, 22,400 ft³/s (634 m³/s), at site 2.8 mi (4.5 km) upstream, as station 11046500.

REMARKS.--Records poor. No regulation above station. Capistrano Water Co. diverted 3.0 mi (4.8 km) upstream. Various amounts of diverted water reaches station as irrigation return flow and rising ground water. Data for San Juan Creek near San Juan Capistrano (11046500) previously collected at site 2.8 mi (4.5 km) upstream was published as creek only and combined. Records of sediment discharge for the current year are published in Part 2 of this report.

COOPERATION.--Four discharge measurements furnished by Orange County Flood Control District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.82	.93	4.1	4.7	3.9	5.0	4.7	.43	.99	.45	.49	.38
2	.30	1.2	4.2	3.5	3.9	22	9.9	.48	.93	.45	.49	.38
3	.37	.52	4.1	3.6	3.8	7.5	20	.54	1.0	.45	.49	.37
4	.72	.60	4.4	23	3.7	5.5	11	.61	.93	.45	.48	.36
5	.14	.20	4.3	16	3.6	5.3	6.3	.81	.93	.45	.48	.36
6	.14	.29	4.3	10	3.6	5.0	4.0	.91	.93	.44	.47	.36
7	.62	.93	4.4	53	3.5	7.5	3.5	.65	1.0	.44	.46	.35
8	1.0	1.2	4.2	129	3.5	42	3.2	.89	.93	.43	.45	.35
9	.30	1.3	3.5	46	3.4	44	2.6	1.2	.82	.43	.44	.34
10	.37	.93	3.7	16	3.4	23	2.5	1.2	.82	.43	.43	.34
11	.93	1.3	3.6	12	3.3	13	2.7	1.3	.62	.43	.42	.34
12	.52	.19	3.2	11	3.3	10	2.5	1.3	.72	.43	.41	.35
13	.93	.64	3.5	9.3	3.2	8.3	2.2	1.4	.72	.44	.40	.36
14	.52	1.2	3.3	8.1	3.2	7.9	2.4	1.4	.62	.44	.39	.37
15	.62	1.0	3.0	7.5	3.2	7.2	2.8	1.5	.82	.45	.38	.38
16	.62	.62	2.9	7.0	3.1	6.8	2.8	1.4	.72	.45	.38	.39
17	.44	3.2	3.2	6.7	3.1	6.5	2.3	1.1	.62	.46	.38	.40
18	.41	3.0	3.3	6.3	3.1	5.8	2.3	.89	.56	.46	.38	.42
19	.71	.82	3.3	6.0	3.1	5.6	2.3	.91	.50	.46	.38	.44
20	1.2	1.2	3.4	5.7	3.0	5.3	2.7	.99	.46	.47	.39	.47
21	.93	.93	3.5	5.5	3.0	5.1	2.6	1.2	.47	.47	.40	.50
22	1.6	2.7	4.2	5.3	3.0	4.8	2.9	1.1	.47	.47	.40	.52
23	1.0	5.0	3.6	5.1	3.0	4.6	3.0	1.1	.47	.47	.40	.55
24	1.5	3.0	3.3	4.9	3.0	4.4	2.3	1.2	.47	.48	.41	.58
25	1.6	3.0	3.6	4.8	2.9	4.2	2.3	1.0	.47	.48	.41	.60
26	1.8	3.2	3.8	4.6	2.9	4.1	2.5	.87	.46	.48	.41	.62
27	1.3	3.1	3.4	4.5	2.9	7.0	2.2	.76	.46	.48	.40	.63
28	.24	3.5	2.9	4.4	2.9	4.6	1.0	.89	.46	.49	.40	.65
29	.14	3.7	3.2	4.3	-----	4.5	.89	.95	.46	.49	.40	.66
30	.44	3.5	3.2	4.1	-----	4.3	.56	.91	.46	.49	.39	.66
31	.93	-----	3.0	4.0	-----	4.2	-----	.99	-----	.49	.39	-----
TOTAL	23.16	52.90	111.6	435.9	91.5	295.0	112.95	30.88	20.29	14.20	13.00	13.48
MEAN	.75	1.76	3.60	14.1	3.27	9.52	3.77	1.00	.68	.46	.42	.45
MAX	1.8	5.0	4.4	129	3.9	44	20	1.5	1.0	.49	.49	.66
MIN	.14	.19	2.9	3.5	2.9	4.1	.56	.43	.46	.43	.38	.34
AC-FT	46	105	221	865	181	585	224	61	40	28	26	27

CAL YR 1973 TOTAL 3,536.16 MEAN 9.69 MAX 205 MIN .12 AC-FT 7,010
WTR YR 1974 TOTAL 1,214.86 MEAN 3.33 MAX 129 MIN .14 AC-FT 2,410

NOTE.--No gage-height record Jan. 15 to Mar. 3, June 17 to Sept. 30.

PEAK DISCHARGE (BASE, 200 FT³/S).--Jan. 8 (1200) 228 ft³/s (3.29 ft).

11047200 OSO CREEK AT CROWN VALLEY PARKWAY, NEAR MISSION VIEJO, CALIF.

LOCATION.--Lat 33°33'29", long 117°40'33", in SE¼ sec.14, T.7 S., R.8 W., Orange County, on right upstream side of Crown Valley Parkway bridge, 2.7 mi (4.3 km) south of Mission Viejo, and 4.0 mi (6.4 km) north of San Juan Capistrano.

DRAINAGE AREA.--14.0 mi² (36.3 km²).

PERIOD OF RECORD.--December 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 250 ft (76 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 769 ft³/s (21.8 m³/s) Jan. 4 (gage height, 6.91 ft or 2.106 m); no flow Oct. 1-22, Oct. 28 to Nov. 1, Nov. 4-7.
Period of record: Maximum discharge, 1,630 ft³/s (46.2 m³/s) Feb. 11, 1973 (gage height, 7.67 ft or 2.338 m); no flow at times in each year.

REMARKS.--Records poor. No regulation or diversion above station.

COOPERATION.--Records furnished by Orange County Flood Control District.

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	2.9	7.7	1.1	.90	3.9	.70	.50	1.0	1.0	1.5
2	0	.10	1.1	1.3	1.1	30	70	.80	.50	1.0	2.2	1.5
3	0	.10	.50	1.2	1.0	5.5	2.0	.90	.50	1.0	1.5	1.4
4	0	0	.70	40	1.0	.90	.90	1.0	.60	1.0	1.6	1.8
5	0	0	.70	10	1.1	.80	.90	1.0	.50	1.0	1.6	1.2
6	0	0	.70	20	.90	.80	.90	3.6	.60	1.0	1.5	1.0
7	0	0	.70	142	.90	4.5	1.0	.40	.60	1.0	1.5	1.2
8	0	.10	.70	70	.50	30	1.1	.80	.60	1.0	1.5	1.8
9	0	.10	.70	10	.50	1.5	1.7	.50	.50	1.0	1.4	1.5
10	0	.20	.50	0.4	.90	.90	.90	.80	.50	1.0	1.4	1.6
11	0	.20	.50	5.2	.80	.90	.90	.80	.50	1.0	1.4	1.5
12	0	.30	.50	4.0	.50	.90	.70	.80	.60	1.0	1.2	1.1
13	0	.40	.70	3.5	.70	.80	.70	.80	.50	1.0	1.2	1.1
14	0	.50	.50	3.0	.80	.90	.50	.80	.50	1.0	1.4	1.2
15	0	.20	.50	2.5	.50	.90	.40	.80	.50	1.0	1.6	1.1
16	0	.40	.50	2.2	.90	.90	.50	.80	.50	1.0	1.7	1.0
17	0	5.4	.50	4.3	.50	1.0	.40	.50	.50	1.0	1.7	1.0
18	0	44	.50	2.0	.70	1.4	.30	.50	.50	1.0	1.6	.90
19	0	1.3	.50	2.5	.50	1.2	.40	.50	.50	1.0	1.4	.90
20	0	.60	.50	4.0	.90	1.0	.40	.50	.50	1.0	1.3	.80
21	0	.90	.50	3.0	.50	1.1	.40	.50	.50	1.0	1.3	.80
22	0	6.7	3.3	2.0	.50	1.2	.40	.50	.50	1.0	1.2	.80
23	.10	15	1.0	2.2	.70	1.4	.40	.50	.50	1.0	1.1	.50
24	.10	.90	1.4	2.2	.50	1.4	.50	.50	.50	1.0	1.0	.70
25	.10	.90	1.7	2.0	.50	1.8	.40	.50	.50	1.0	1.0	.70
26	.10	1.4	1.1	2.0	.50	1.8	.40	.50	.50	1.0	1.0	.80
27	.10	.50	.70	1.7	.50	10	.50	.50	.50	1.0	1.0	.80
28	0	.50	.70	1.5	1.2	1.7	.50	.50	.50	1.0	1.1	.80
29	0	.70	1.0	1.4	-----	1.7	.50	.50	.50	1.0	1.4	.50
30	0	.50	1.1	1.2	-----	1.7	.70	.50	.50	1.0	1.5	.70
31	0	-----	.90	1.1	-----	1.8	-----	.50	-----	1.0	1.5	-----
TOTAL	.50	121.10	21.00	415.0	22.90	157.10	93.40	24.40	18.00	31.0	43.0	32.00
MEAN	.016	4.04	1.03	13.4	.52	5.39	3.11	.80	.50	1.00	1.39	1.09
MAX	.10	24	3.3	142	1.2	20	70	3.6	.50	1.0	2.2	1.8
MIN	0	0	.70	1.1	.50	.90	.30	.50	.50	1.0	1.0	.70
ACFT	1.0	240	55	823	45	331	187	49	36	61	75	65

CAL YR 1973 TOTAL 459.00 MEAN 2.63 MAX 142 MIN 0 ACFT 1,900
 YR 1974 TOTAL 1,001.60 MEAN 2.74 MAX 142 MIN 0 ACFT 1,990

11047300 ARROYO TRABUCO AT SAN JUAN CAPISTRANO, CALIF.

LOCATION.--Lat 33°29'54", long 117°39'54", on line between secs.1 and 12, T.8 S., R.8 W., Orange County, on downstream side of bridge on Del Obispo Street in San Juan Capistrano.

DRAINAGE AREA.--54.1 mi² (140 km²).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 80 ft (24.4 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 380 ft³/s (10.8 m³/s) Jan. 4 (gage height, 1.55 ft or 0.472 m); no flow for many days.

Period of record: Maximum discharge, 1,380 ft³/s (39.1 m³/s) Feb. 11, 1973 (gage height, 2.50 ft or 0.762 m); no flow many days.

REMARKS.--Records fair. No regulation or diversion above station. Records of suspended-sediment discharge for the current year are published in Part 2 of this report.

COOPERATION.--Records furnished by Orange County Flood Control District and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.01	5.0	16	3.2	7.3	3.2	1.8	.10	2.0	.50	.50
2	0	.02	4.8	3.5	3.0	52	38	2.5	0	2.0	.50	.50
3	.01	.03	1.5	2.4	3.0	20	18	3.2	0	2.0	.50	.50
4	.02	.04	1.5	83	3.0	2.0	12	4.4	0	2.0	.50	.50
5	.03	.06	1.5	35	3.0	.20	7.8	4.2	0	2.0	.50	.50
6	.04	.09	1.5	38	3.0	.10	6.7	5.3	0	2.0	.50	.50
7	.05	.05	1.1	157	2.5	6.2	6.7	1.3	1.3	2.0	.50	.50
8	.06	.03	1.1	152	3.0	134	4.8	1.3	1.3	2.0	.50	.50
9	.07	.01	1.3	44	3.0	26	4.8	3.6	0	2.0	.50	.50
10	.06	0	1.7	14	3.0	18	4.8	4.0	4.1	2.0	.50	.50
11	.10	0	1.6	3.8	3.0	13	4.8	4.0	2.0	1.0	.50	.50
12	.10	0	2.5	2.0	3.0	12	4.8	3.6	2.0	1.0	.50	.50
13	.10	0	2.8	.80	3.0	8.8	5.6	3.0	2.0	1.0	.50	.50
14	.10	0	3.0	.70	3.0	7.8	4.0	1.9	2.0	1.0	.50	.50
15	.10	.60	3.0	.60	3.2	6.7	2.5	1.9	2.0	1.0	.50	.50
16	.10	1.2	2.9	.40	3.9	6.7	2.5	3.1	2.0	1.0	.50	.50
17	.10	16	3.8	3.5	4.5	4.8	3.2	2.5	2.0	1.0	.50	.50
18	.10	55	3.6	1.3	4.5	7.8	2.8	1.0	2.0	.50	.50	.50
19	.09	4.9	3.3	1.1	5.4	6.7	3.2	.40	2.0	.50	.50	.50
20	.08	3.5	3.4	5.5	5.4	8.8	2.5	.40	2.0	.50	.50	.50
21	.07	4.0	3.8	.80	4.5	6.7	3.2	.30	2.0	.50	.50	.20
22	.06	4.8	11	3.8	4.5	6.7	2.5	.20	2.0	.50	.50	.20
23	.05	24	3.6	3.8	4.5	7.8	4.0	.10	2.0	.50	.50	.20
24	.04	3.8	2.6	3.8	4.5	6.7	4.0	.10	2.0	.50	.50	.20
25	.03	3.0	3.0	4.5	5.4	7.8	3.2	0	2.0	.50	.50	.20
26	.02	3.6	2.5	4.1	5.4	7.8	4.0	0	2.0	.50	.50	.20
27	.01	1.5	1.8	3.8	5.4	20	3.2	0	2.0	.50	.50	.10
28	0	1.5	2.0	3.0	4.5	6.1	2.5	0	2.0	.50	.50	.10
29	0	1.9	2.0	3.0	-----	4.8	2.5	0	2.0	.50	.50	.10
30	0	1.1	2.1	2.5	-----	3.2	2.5	.10	2.0	.50	.50	.10
31	0	-----	2.0	3.0	-----	2.5	-----	.10	-----	.50	.50	-----
TOTAL	1.61	130.74	88.1	607.90	107.3	429.00	174.5	54.30	46.80	34.00	15.50	11.60
MEAN	.052	4.36	2.84	19.6	3.83	13.8	5.82	1.75	1.56	1.10	.50	.39
MAX	.10	55	11	157	5.4	134	38	5.3	4.1	2.0	.50	.50
MIN	0	0	1.1	.40	2.5	.10	2.5	0	0	.50	.50	.10
AC-FT	3.2	259	175	1,210	213	851	346	108	93	67	31	23

CAL YR 1973 TOTAL 2,721.05 MEAN 7.45 MAX 225 MIN 0 AC-FT 5,400
 WTR YR 1974 TOTAL 1,701.35 MEAN 4.66 MAX 157 MIN 0 AC-FT 3,370

11047500 ALISO CREEK AT EL TORO, CALIF.

LOCATION.--Lat 33°37'34", long 117°41'03", in Canada de los Alisos Grant, Orange County, near center of channel on upstream side of Second Street Bridge at El Toro.

DRAINAGE AREA.--7.91 mi² (20.5 km²).

PERIOD OF RECORD.--October 1930 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 440 ft (134 m), from topographic map. Prior to July 1962, at different datum.

AVERAGE DISCHARGE.--44 years, 0.73 ft³/s (0.0207 m³/s), 529 acre-ft/yr (652,000 m³/yr).

EXTREMES.--Current year: Maximum discharge, 222 ft³/s (6.29 m³/s) Jan. 7 (gage height, 3.91 ft or 1.192 m); no flow many days.

Period of record: Maximum discharge, 2,500 ft³/s (70.8 m³/s) Feb. 24, 1969 (gage height, 11.00 ft or 3.353 m, from floodmark), from rating curve extended above 220 ft³/s (6.23 m³/s) on basis of slope-area measurement of maximum flow; no flow most of each year.

REMARKS.--Records poor. No regulation or diversion above station; some pumping from wells along stream. At times since 1964, Metropolitan Water District has wasted water to creek.

COOPERATION.--Records furnished by Orange County Flood Control District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.20	.40	.40	0	.70		0			0
2		0	0	.20	.30	5.1	1.3		0			0
3		0	0	.20	.40	.10	.20		0			0
4		0	0	21	.40	0	.10		0			0
5		0	0	2.3	.40	0	.10		0			0
6		0	0	3.5	.50	0	.10		0			0
7		0	0	59	.40	1.1	.10		0			0
8		0	0	28	.30	27	.20		.10			0
9		0	0	1.1	.30	1.5	.20		.10			0
10		0	0	1.0	.30	1.0	.10		0			0
11		0	0	.80	.30	.90	.10		0			0
12		0	0	.40	.30	.70	.10		0			0
13		0	0	.20	.30	.50	.10		0			0
14		0	.10	.50	.30	.30	.10		0			0
15		0	0	.40	.30	.30	.20		0			0
16		0	0	.60	.30	.30	.40		0			0
17		0	.10	1.0	.30	.10	.40		0			.10
18		0	.10	.80	.30	0	0		0			.10
19		0	.20	.70	.40	.30	.40		0			0
20		0	.20	.80	.40	.30	0		0			0
21		0	.20	.30	.40	.40	0		0			0
22		.90	.40	.50	.40	.40	0		0			0
23		.20	.30	.30	.30	.40	.20		0			0
24		0	.20	.30	.30	.40	.20		0			0
25		0	0	.30	.30	.40	.20		0			0
26		0	.20	.30	.30	.30	.10		0			0
27		0	.10	.30	.30	1.3	.10		0			0
28		0	.20	.30	.40	.30	0		0			0
29		0	.10	.30	-----	.30	0		0			0
30		.10	0	.30	-----	.30	.10		0			0
31		-----	.10	.30	-----	.20	-----		-----			-----
TOTAL	0	1.20	2.70	126.40	9.60	44.20	5.80	0	.20	0	0	.20
MEAN	0	.040	.087	4.08	.34	1.43	.19	0	.007	0	0	.007
MAX	0	.90	.40	59	.50	27	1.3	0	.10	0	0	.10
MIN	0	0	0	.20	.30	0	0	0	0	0	0	0
AC-FT	0	2.4	5.4	251	19	88	12	0	.4	0	0	.4
CAL YR 1973	TOTAL	273.61	MEAN	.75	MAX	94	MIN	0	AC-FT	543		
WTR YR 1974	TOTAL	190.30	MEAN	.52	MAX	59	MIN	0	AC-FT	377		

11048500 SAN DIEGO CREEK NEAR IRVINE, CALIF.

LOCATION.--Lat 33°40'20", long 117°47'10", in San Joaquin Grant, Orange County, on left bank 200 ft (61 m) downstream from Jeffrey Road Bridge, and 1.5 mi (2.4 km) west of Irvine.

DRAINAGE AREA.--40.3 mi² (104.4 km²).

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 102.86 ft (31.352 m) above mean sea level (levels by Orange County Flood Control District).

AVERAGE DISCHARGE.--25 years, 3.34 ft³/s (0.0946 m³/s), 2,420 acre-ft/yr (3.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 665 ft³/s (18.8 m³/s) Jan. 7 (gage height, 4.15 ft or 1.256 m); no flow Nov. 15-17.

Period of record: Maximum discharge, 6,700 ft³/s (190 m³/s) Feb. 24, 1969 (gage height, 11.46 ft or 3.493 m), from rating curve extended above 510 ft³/s (14.4 m³/s) on basis of slope-area measurements at gage heights 9.20 ft (2.804 m) and 11.46 ft (3.493 m); no flow for long periods in most years.

REMARKS.--Records good. Pumping from wells along stream causes low-flow fluctuation in discharge.

COOPERATION.--Eleven discharge measurements furnished by Orange County Flood Control District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	.48	.90	4.9	.77	4.6	.71	1.3	3.8	1.4	2.7	1.6
2	.84	.61	1.3	2.4	.94	87	31	1.8	3.2	1.6	4.5	1.8
3	1.2	.67	1.2	2.0	.73	25	1.8	1.9	2.8	1.6	4.6	1.5
4	1.0	.59	1.2	84	.49	13	.48	2.2	2.0	2.8	4.6	2.7
5	1.8	.38	1.5	42	.68	5.1	1.0	3.5	3.1	2.7	4.1	3.4
6	1.6	.59	1.4	43	.43	4.2	1.0	4.4	2.5	2.9	5.1	2.1
7	2.1	.71	.45	240	1.1	17	1.4	2.1	2.5	2.9	3.4	.89
8	1.4	.59	1.6	106	1.2	275	1.6	1.8	3.0	3.1	2.7	1.4
9	1.6	.06	1.6	6.4	.69	56	1.6	2.0	2.9	3.6	1.8	.59
10	1.4	.59	.96	1.8	.96	13	2.1	2.4	2.2	3.6	2.1	1.4
11	1.9	.84	2.1	.47	.85	4.6	2.2	1.9	2.6	3.1	1.8	1.2
12	2.4	.71	.72	.06	.84	2.4	1.4	1.8	2.6	3.4	2.4	1.1
13	.71	.06	2.3	1.4	1.4	1.6	2.1	2.1	1.7	3.8	1.2	1.8
14	1.4	.01	.55	2.1	1.0	1.1	2.8	2.1	1.4	3.3	2.4	1.8
15	1.0	0	1.7	1.2	.35	.54	1.2	2.3	1.5	4.7	3.3	1.4
16	.48	0	2.5	.17	.26	.31	1.6	2.5	1.8	2.7	2.7	1.8
17	1.2	0	2.7	2.1	.62	.43	2.0	2.5	2.5	3.8	1.6	1.4
18	2.4	17	2.4	2.2	1.7	.47	2.1	3.2	2.3	3.4	1.8	1.8
19	2.7	1.7	3.0	.79	1.1	.40	2.8	3.2	2.5	3.4	1.6	2.1
20	1.2	.77	3.0	.53	1.1	.29	2.1	3.6	2.5	3.3	2.4	1.8
21	1.7	.40	2.5	1.5	1.6	.15	1.5	2.3	1.7	5.0	2.7	1.4
22	1.4	3.0	5.8	.72	1.2	.31	1.8	2.5	1.4	4.6	2.7	1.2
23	.71	8.8	4.9	1.6	2.8	.25	2.1	1.9	2.1	3.4	2.4	1.2
24	1.4	1.2	2.6	.86	2.9	.18	3.2	2.7	1.8	2.4	2.4	1.8
25	.97	1.1	1.7	1.3	3.4	.50	2.3	3.5	1.8	2.1	1.2	1.2
26	1.5	1.1	2.2	.12	1.9	.23	2.8	3.0	1.2	1.4	1.6	.71
27	.59	1.3	2.6	2.2	.88	6.1	3.8	3.3	2.1	2.1	2.4	1.0
28	.59	.87	3.6	.04	4.5	.70	2.5	3.5	1.8	2.7	1.0	.59
29	1.5	1.1	4.0	1.3	-----	1.3	1.8	3.0	1.6	3.0	1.4	.30
30	.75	1.4	2.5	1.2	-----	.48	1.2	3.0	1.4	2.7	1.8	.20
31	1.1	-----	1.6	.84	-----	.48	-----	2.7	-----	3.4	1.2	-----
TOTAL	41.94	46.63	67.08	555.20	36.39	522.72	85.99	80.0	66.3	93.9	77.6	43.18
MEAN	1.35	1.55	2.16	17.9	1.30	16.9	2.87	2.58	2.21	3.03	2.50	1.44
MAX	2.7	17	5.8	240	4.5	275	31	4.4	3.8	5.0	5.1	3.4
MIN	.48	0	.45	.04	.26	.15	.48	1.3	1.2	1.4	1.0	.20
AC-FT	83	92	133	1,100	72	1,040	171	159	132	186	154	86

CAL YR 1973 TOTAL 3,152.33 MEAN 8.64 MAX 532 MIN 0 AC-FT 6,250
WTR YR 1974 TOTAL 1,716.93 MEAN 4.70 MAX 275 MIN 0 AC-FT 3,410

PEAK DISCHARGE (BASE, 300 FT³/S).--Jan. 7 (1800) 665 ft³/s (4.15 ft); Mar. 8 (0645) 563 ft³/s (3.85 ft).

11048550 SAN DIEGO CREEK AT LANE ROAD NEAR IRVINE, CALIF.

LOCATION.--Lat 33°40'18", long 117°50'06", in NW¼ sec.60, T.6 S., R.8 W., in San Joaquin Grant, Orange County, on downstream side of abandoned county road bridge 800 ft (200 m) north of the San Diego Freeway (Interstate 405), 0.2 mi (0.3 km) downstream of Lane Road, and 1.7 mi (2.7 km) north of University California at Irvine.

PERIOD OF RECORD.--October 1973 to September 1974. Previous records published by Orange County Flood Control District.

GAGE.--Water-stage recorder. Datum of gage is 30 ft (9.1 m) from topographic map.

EXTREMES.--Maximum discharge, 2,360 ft³/s (66.7 m³/s) Jan. 7 (gage height, 4.97 ft or 1.515 m); minimum daily, 4.3 ft³/s (0.12 m³/s) Nov. 25, 28, Dec. 3.

REMARKS.--Records fair because of undefined rating above 100 ft³/s (2.83 m³/s). Low flow discharge is affected by ground water pumping and irrigation run off. Records of suspended-sediment discharge for the current year are published in Part 2 of this report.

COOPERATION.--Records furnished by Orange County Flood Control District and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	9.0	7.9	20	8.4	18	6.5	10	13	14	13	10
2	10	9.3	6.3	7.6	8.1	362	8.7	8.4	14	13	13	11
3	11	9.0	4.3	8.7	8.4	26	11	8.4	15	14	15	9.6
4	10	10	4.9	477	7.6	5.3	8.1	9.0	12	15	15	10
5	11	9.0	6.3	264	8.4	5.1	8.1	9.6	13	15	13	12
6	11	9.0	7.3	269	8.1	5.6	8.1	21	14	15	15	12
7	10	9.3	6.6	423	7.0	71	8.1	9.6	14	14	11	12
8	10	9.0	7.3	344	9.0	907	8.1	9.0	12	13	13	12
9	9.6	9.3	9.3	27	8.1	7.9	8.1	9.9	11	16	11	11
10	9.0	9.9	9.6	8.7	8.1	11	8.1	11	11	16	13	11
11	10	10	8.1	6.8	7.8	9.9	8.1	11	11	18	13	11
12	12	9.3	7.3	5.6	7.3	9.6	8.1	9.9	10	16	14	13
13	9.9	8.4	9.6	5.6	7.8	9.9	8.1	11	10	18	12	13
14	9.9	8.4	8.7	6.6	9.0	9.9	8.1	11	11	17	13	15
15	10	9.0	7.6	5.8	7.8	4.0	8.1	11	13	16	14	13
16	8.7	11	8.7	5.6	7.8	8.1	8.1	11	11	15	13	14
17	9.0	103	9.0	13	8.7	8.4	9.9	11	12	16	14	14
18	11	248	8.4	7.6	7.6	7.6	9.9	13	12	15	14	13
19	11	6.8	9.0	6.6	8.7	8.4	9.9	12	12	16	12	14
20	12	6.3	10	12	8.4	8.7	9.9	13	12	16	15	14
21	10	6.5	8.4	9.0	8.1	8.1	9.9	13	12	16	15	14
22	11	31	52	6.1	8.7	7.6	10	9.9	12	13	15	14
23	9.0	119	9.3	6.6	9.6	7.8	10	9.9	13	12	15	13
24	9.3	5.3	7.3	6.8	8.1	9.0	9.6	12	13	10	14	12
25	9.9	4.3	5.8	7.6	4.0	7.6	9.6	11	14	11	13	11
26	12	4.9	6.3	7.1	9.6	7.3	10	11	13	12	14	12
27	12	4.5	9.4	8.1	8.4	4.9	10	11	13	11	14	12
28	11	4.3	8.1	6.6	8.4	9.9	10	11	16	12	15	12
29	12	4.5	8.7	9.0	-----	8.7	10	12	16	13	13	11
30	12	5.1	8.4	8.1	-----	7.6	10	14	13	13	12	12
31	11	-----	7.6	8.4	-----	7.1	-----	13	-----	13	10	-----
TOTAL	324.3	102.4	288.0	2,508.0	312.2	1,638.1	348.6	347.6	378	446	416	367.6
MEAN	10.5	23.4	9.29	80.9	11.2	52.8	11.6	11.2	12.6	14.4	13.4	12.3
MAX	12	248	52	923	88	407	67	21	16	18	15	15
MIN	8.7	4.3	4.3	5.0	7.3	5.1	6.6	8.4	10	10	10	9.6
AC-FT	643	1,340	571	4,976	619	3,250	691	689	750	885	825	729

CAL YR 1973 TOTAL 6,903.5 MEAN 16.9 MAX 574 MIN 4.3 AC-FT 13,690
 WTR YR 1974 TOTAL 5,076.8 MEAN 22.1 MAX 923 MIN 4.3 AC-FT 16,020

11049000 BIG BEAR LAKE NEAR BIG BEAR LAKE, CALIF.

LOCATION.--Lat 34°14'33", long 116°58'33", in SW¼ sec.22, T.2 N., R.1 W., San Bernardino County, at Big Bear Lake Dam on Bear Creek, 4 mi (6 km) west of town of Big Bear Lake, and 7.5 mi (12.1 km) upstream from mouth.

DRAINAGE AREA.--71.5 mi² (185.2 km²), including Baldwin Lake drainage.

PERIOD OF RECORD.--October 1950 to current year in reports of Geological Survey. February 1884 to September 1950 in files of Bear Valley Mutual Water Co.

GAGE.--Nonrecording gage. Datum of gage is 6,670.9 ft (2,033.29 m) above mean sea level (levels by Bear Valley Mutual Water Co.). Prior to 1912 at old dam 200 ft (61 m) upstream at same datum; spillway at gage height 52.4 ft (16.0 m).

EXTREMES.--Current year: Maximum contents observed, 64,430 acre-ft (79.4 hm³) Apr. 30; minimum contents, 53,690 acre-ft (66.2 hm³) Oct. 31.

Period of record: Maximum contents unknown, lake spilled in 1916, 1917, 1922, 1923, 1938, 1939, 1969, 1970; lake dry October, November 1898, August to November 1899, October, November 1904.

REMARKS.--Lake is formed by multiple-arch concrete dam, completed in 1912, replacing existing lower dam built in 1884; storage began in spring of 1884. Capacity, 72,200 acre-ft (89.0 hm³) at elevation 6,743.2 ft (2,055.327 m), top of dam. Capacity table based on survey made in 1883. No dead storage. Water used for irrigation only. See schematic diagram of Santa Ana River basin.

COOPERATION.--Record of contents furnished by Bear Valley Mutual Water Co.

MONTHEND CONTENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	60,850	--
Oct. 31.....	59,170	-1,680
Nov. 30.....	59,170	0
Dec. 31.....	58,960	-210
CAL YR 1973.....	--	+5,900
Jan. 31.....	61,060	+2,100
Feb. 28.....	61,700	+640
Mar. 31.....	63,800	+2,100
Apr. 30.....	64,430	+630
May 31.....	63,590	-840
June 30.....	61,480	-2,110
July 31.....	59,170	-2,310
Aug. 31.....	56,850	-2,320
Sept. 30.....	54,960	-1,890
WTR YR 1974.....	--	-5,890

11051500 SANTA ANA RIVER NEAR MENTONE, CALIF.

LOCATION.--Lat 34°06'30", long 117°05'59", in NE¼SW¼SW¼ sec.4, T.1 S., R.2 W., San Bernardino County, on right bank at diversion near mouth of canyon, 1.6 mi (2.6 km) upstream from Mill Creek, and 3.2 mi (5.1 km) north-east of Mentone.

DRAINAGE AREA.--209 mi² (541 km²), including area tributary to Baldwin Lake at head of Bear Valley.

PERIOD OF RECORD.--July 1896 to current year. Prior to October 1914, observed records not equivalent owing to Greenspot pipeline diversion between sites and exclusion of discharge from Warm Springs Canyon. Monthly discharge only for January 1910, January, February 1916, published in WSP 1315-B.

GAGE.--Water-stage recorder on river; water-stage recorder on powerhouse diversion. Altitude of gage is 1,950 ft (594 m), from topographic map. Prior to Sept. 2, 1917, nonrecording gages at several sites within 1.5 mi (2.4 km) upstream at various datums. Sept. 3, 1917, to May 27, 1969, water-stage recorder at site 0.2 mi (0.3 km) upstream at different datum.

AVERAGE DISCHARGE (River only).--60 years (1914-74), 33.0 ft³/s (0.935 m³/s), 23,910 acre-ft/yr (29.5 hm³/yr). (Combined river and canal).--78 years, 81.1 ft³/s (2.29 m³/s), 58,760 acre-ft/yr (72.5 hm³/yr).

EXTREMES (River only).--Current year: Maximum discharge, 204 ft³/s (5.78 m³/s) Jan. 8 (gage height, 3.22 ft or 0.982 m); no flow on several days.

Period of record: Maximum discharge, 52,300 ft³/s (1,480 m³/s) Mar. 2, 1938 (gage height, 14.3 ft or 4.359 m, site and datum then in use), on basis of slope-area measurement of maximum flow; no flow at times in some years.

(Combined flow).--Current year: Maximum discharge, 208 ft³/s (5.89 m³/s) Jan. 8; minimum daily, 36 ft³/s (1.02 m³/s) Aug. 12.

Period of record: Maximum discharge, 52,300 ft³/s (1,480 m³/s) Mar. 2, 1938; minimum daily, 7.4 ft³/s (0.21 m³/s) Sept. 21, 1971.

Flood of Feb. 23, 1891, 53,700 ft³/s (1,520 m³/s), from notes furnished by F. C. Finkle, consulting engineer, Los Angeles.

REMARKS.--Records fair. Flow partly regulated by Big Bear Lake (see sta 11049000). For records of combined discharge of Santa Ana River and Southern California Edison Co.'s canal below powerplant No. 2, which diverts above station, see following page. Bear Valley Mutual Water Co. pumped 698 acre-ft (861,000 m³) into canal below canal gage. Prior to Oct. 1, 1952, pumped water entered canal above gage. See schematic diagram of Santa Ana River basin.

COOPERATION.--Twelve discharge measurements on Southern California Edison Co.'s canal below powerplant No. 2 furnished by that agency, in connection with a Federal Power Commission project.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.64	.52	4.7	33	5.5	6.9	6.3	4.3	1.1	.25	1.1	.25
2	.64	.44	4.5	32	5.3	79	73	4.4	1.1	.30	5.2	.02
3	.70	.47	3.9	28	5.1	100	72	4.1	.97	.20	3.3	.09
4	.61	.49	3.8	33	5.9	74	41	3.6	.97	.16	22	.09
5	.55	.49	3.5	50	5.7	25	9.1	3.5	.97	.16	18	.09
6	.64	.42	3.3	76	5.7	18	8.6	3.0	.97	.16	4.1	.09
7	.78	.34	3.2	158	5.9	20	8.1	2.8	1.2	.16	2.6	.09
8	.82	.32	3.2	155	5.3	81	8.9	2.4	1.2	.16	2.7	.09
9	.86	.28	3.2	85	4.6	94	10	2.4	.97	.16	2.7	.09
10	.82	.26	3.1	68	4.3	66	12	2.3	.97	.16	2.6	.09
11	.78	.26	3.0	45	4.3	34	9.2	2.1	.97	.16	2.2	.09
12	.74	.26	3.1	30	4.7	27	7.7	2.0	.88	.12	2.1	.09
13	.61	.28	3.0	20	4.0	26	7.3	2.0	.63	.12	2.2	.01
14	.49	.34	2.9	15	4.0	24	6.7	2.6	.56	.09	.79	.01
15	.52	.36	3.2	12	3.9	21	6.5	2.0	.56	.06	.79	.79
16	.47	.32	3.0	10	3.7	16	6.1	1.7	.63	.07	.97	.02
17	.44	.53	2.8	14	3.7	13	5.9	1.6	.71	.07	.63	.01
18	.82	.83	2.9	13	3.9	13	5.9	1.5	.79	.06	.97	.01
19	1.0	.7	2.9	11	3.9	12	7.1	1.6	.79	.06	1.1	.01
20	1.2	50	2.9	11	3.9	11	8.8	1.6	.63	.09	1.4	0
21	.58	32	2.9	36	3.7	8.3	5.4	1.5	.56	.09	1.4	0
22	.67	6.7	2.9	16	3.7	7.6	7.3	1.6	.45	.09	1.7	.06
23	2.6	5.7	2.9	16	3.6	7.6	5.5	1.4	.34	.06	.63	0
24	4.4	5.0	3.0	12	3.6	7.2	4.9	1.2	.33	3.1	.56	0
25	1.6	4.5	3.0	11	3.6	6.8	4.7	1.1	.33	5.4	.56	0
26	2.1	4.3	3.0	9.8	3.6	6.8	4.7	1.0	.32	1.2	.56	0
27	.74	4.1	3.0	9.2	3.3	6.8	4.6	.95	.24	.63	.56	0
28	.55	4.1	2.9	7.5	3.4	6.8	4.4	.91	.30	.48	.79	0
29	.44	3.9	2.8	6.3	-----	6.6	4.6	.98	.30	.90	.42	0
30	.90	3.9	2.8	5.9	-----	6.3	4.4	.98	.30	1.4	.09	0
31	1.3	-----	2.8	5.7	-----	6.3	-----	1.1	-----	1.2	.16	-----
TOTAL	30.01	270.58	98.1	1,034.4	121.8	838.0	370.7	64.22	21.04	17.32	84.88	2.09
MEAN	.97	9.02	3.16	33.4	4.35	27.0	12.4	2.07	.70	.56	2.74	.070
MAX	4.4	83	4.7	158	5.9	100	73	4.4	1.2	5.4	22	.79
MIN	.44	.26	2.8	5.7	3.3	6.3	4.4	.91	.24	.06	.09	0
AC-FT	60	537	195	2,050	242	1,660	735	127	42	34	168	4.1

CAL YR 1973 TOTAL 15,422.93 MEAN 42.3 MAX 445 MIN .26 AC-FT 30,590
WTR YR 1974 TOTAL 2,953.14 MEAN 8.09 MAX 159 MIN 0 AC-FT 5,860

PEAK DISCHARGE (BASE, 150 FT³/S).--Jan. 8 (0500) 204 ft³/s (3.22 ft); Mar. 2 (1200) 199 ft³/s (2.43 ft).

SANTA ANA RIVER BASIN

11051500 SANTA ANA RIVER NEAR MENTONE, CALIF.--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF SANTA ANA RIVER AND SOUTHERN CALIFORNIA EDISON CO.'S CANAL NEAR MENTONE, CALIF., WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	44	51	74	58	71	66	50	51	49	42	43
2	50	43	50	67	56	110	95	50	49	50	55	43
3	50	44	45	62	55	103	79	51	48	52	52	43
4	50	44	44	69	54	98	79	53	48	51	52	48
5	49	44	44	83	54	85	75	54	48	48	54	48
6	50	43	42	100	53	77	77	50	46	48	48	46
7	50	43	42	159	51	82	73	49	47	48	45	45
8	50	42	41	156	51	104	72	47	46	48	44	44
9	50	42	41	85	51	99	76	48	45	46	43	44
10	50	42	41	82	49	106	74	48	43	46	42	43
11	50	42	40	84	49	98	68	47	42	46	37	43
12	49	41	41	83	50	92	66	47	42	45	36	43
13	49	41	41	73	50	89	65	48	42	42	38	44
14	47	41	40	67	49	89	64	49	42	42	43	43
15	47	41	40	67	48	88	64	49	41	42	43	43
16	46	41	40	68	48	87	62	47	41	41	42	44
17	45	43	40	86	48	86	61	46	41	41	46	46
18	46	101	40	85	47	87	60	44	41	41	46	46
19	46	57	40	85	48	84	59	46	45	46	49	46
20	49	69	39	86	46	83	60	45	45	51	50	46
21	49	69	40	76	45	79	56	44	44	50	50	44
22	49	45	40	78	45	78	56	45	45	47	52	45
23	48	48	39	73	45	76	56	44	45	46	50	45
24	49	46	40	68	44	73	56	44	44	50	45	46
25	49	44	40	66	44	72	55	42	38	51	44	48
26	46	44	40	64	44	70	55	41	38	45	45	46
27	43	43	40	60	43	69	54	41	38	41	44	46
28	42	43	40	60	46	68	52	40	42	39	43	45
29	41	43	39	59	-----	68	52	54	45	40	43	45
30	41	42	39	59	-----	67	51	60	50	39	43	44
31	42	-----	39	59	-----	70	-----	54	-----	39	41	-----
TOTAL	1,470	1,415	1,278	2,443	1,371	2,608	1,938	1,477	1,322	1,410	1,407	1,345
MEAN	47.4	47.2	41.2	78.8	49.0	84.1	64.6	47.6	44.1	45.5	45.4	44.8
MAX	50	101	51	159	58	110	95	60	51	52	55	48
MIN	41	41	39	59	43	67	51	40	38	39	36	43
AC-FT	2,920	2,810	2,530	4,850	2,720	5,170	3,840	2,930	2,620	2,800	2,790	2,670

CAL YR 1973 TOTAL 28,484 MEAN 78.0 MAX 464 MIN 22 AC-FT 56,500
WTR YR 1974 TOTAL 19,484 MEAN 53.4 MAX 159 MIN 36 AC-FT 38,650

PEAK DISCHARGE (BASE, 150 FT³/S)
DATE TIME DISCHARGE DATE TIME DISCHARGE
1-8 0500 208 4-2 0700 166
3-2 1200 207

11051600 SANTA ANA RIVER SPREADING DIVERSION NEAR MENTONE, CALIF.

LOCATION.--Lat 34°06'12", long 117°06'37", in SW¼NW¼NE¼ sec.8, T.1 S., R.2 W., San Bernardino County, on diversion channel 0.8 mi (1.3 km) downstream from Southern California Edison Co.'s powerhouse No. 3, and 2.4 mi (3.9 km) northeast of Mentone.

PERIOD OF RECORD.--October 1951 to current year.

GAGE.--Water-stage recorder and Parshall flume control. Altitude of gage is 1,840 ft (561 m), from topographic map.

EXTREMES.--Period of record: Maximum daily discharge, 141 ft³/s (3.99 m³/s) Mar. 16, 1973; no flow for long periods in each year.

REMARKS.--Records good. Water is diverted from Santa Ana River at diversion dam 0.8 mi (1.3 km) upstream, for spreading on debris cone downstream from mouth of Santa Ana River Canyon. Diversion began prior to 1951.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	0	.05	33	.46	37	.33			0	
2		0	12	.05	40	54	79	.34			.05	
3		0	18	0	43	65	77	.31			0	
4		0	16	0	44	72	71	.18			2.0	
5		0	14	10	46	68	28	.15			.60	
6		0	13	26	44	65	24	.10			0	
7		0	13	47	43	65	24	.05			0	
8		0	4.1	59	33	84	24	.04			0	
9		0	0	68	25	85	25	.06			0	
10		0	0	60	25	86	25	.08			0	
11		0	0	53	24	77	33	.05			0	
12		0	0	45	24	73	33	.01			0	
13		0	0	46	24	68	29	.02			0	
14		0	0	50	23	59	29	.08			0	
15		0	0	51	22	56	28	.08			0	
16		0	0	48	22	48	28	.03			0	
17		0	0	46	24	45	18	.01			0	
18		.03	0	27	22	49	13	.01			0	
19		21	0	26	20	51	13	.02			0	
20		21	0	26	18	49	4.0	.03			0	
21		12	0	40	16	45	.50	0			0	
22		9.1	0	29	8.1	45	2.0	0			0	
23		16	0	31	.09	44	.50	0			0	
24		13	0	29	.09	43	.50	0			0	
25		13	0	27	.09	43	.50	0			0	
26		12	0	23	.92	42	.50	0			0	
27		8.1	0	20	.04	43	.50	0			0	
28		7.9	0	19	.09	42	.50	0			0	
29		7.7	0	19	-----	41	.50	0			0	
30		4.1	0	20	-----	40	.37	0			0	
31		-----	0	19	-----	41	-----	0	-----		0	-----
TOTAL	0	144.93	90.1	964.10	624.42	1,688.46	648.37	1.98	0	0	2.65	0
MEAN	0	4.83	2.91	31.1	22.3	54.5	21.6	.064	0	0	.086	0
MAX	0	21	18	68	46	86	79	.34	0	0	2.0	0
MIN	0	0	0	0	.04	.46	.37	0	0	0	0	0
AC-FT	0	287	179	1,910	1,240	3,350	1,290	3.9	0	0	5.3	0
CAL YR 1973	TOTAL	9,449.56	MEAN	25.9	MAX	141	MIN	0	AC-FT	18,740		
WTR YR 1974	TOTAL	4,165.01	MEAN	11.4	MAX	86	MIN	0	AC-FT	8,260		

11054000 MILL CREEK NEAR YUCAIPA, CALIF.

LOCATION.--Lat 34°05'27", long 117°02'12", in NW¼NE¼ sec.13, T.1 S., R.2 W., San Bernardino County, on left bank 50 ft (15 m) downstream from bridge on State Highway 190-D, 3.9 mi (6.3 km) north of Yucaipa, and 5.3 mi (8.5 km) upstream from mouth.

DRAINAGE AREA.--42.4 mi² (110 km²).

PERIOD OF RECORD.--January 1919 to September 1938, October 1947 to current year. Monthly figures only for April and May 1923, published in WSP 1315-B. Prior to October 1954, published as "near Craftonville."

GAGE.--Water-stage recorder on creek; water-stage recorder and sharp-crested weir on power canal No. 1; water-stage recorder and Parshall flume on power canals Nos. 2 and 3. Datum of gage is 2,916.36 ft (888.907 m) above mean sea level (Southern California Edison Co. bench mark). See WSP 1735 for history of changes prior to Mar. 2, 1938.

AVERAGE DISCHARGE (Creek only).--46 years, 13.3 ft³/s (0.3767 m³/s), 9,640 acre-ft/yr (11.9 hm³/yr).

(Combined creek and canals).--46 years, 34.1 ft³/s (0.9657 m³/s), 24,700 acre-ft/yr (30.5 hm³/yr).

EXTREMES (Creek only).--Current year: Maximum discharge, 140 ft³/s (3.96 m³/s) July 19 (gage height, 8.60 ft or 2.621 m); maximum gage height, 8.64 ft (2.633 m) Mar. 2, due to debris wave; minimum daily discharge, 0.01 ft³/s (0.0003 m³/s) many days in September.

Period of record: Maximum discharge, 35,400 ft³/s (1,000 m³/s) Jan. 25, 1969 (gage height, 16.8 ft or 5.121 m, from floodmark), from rating curve extended above 1,100 ft³/s (31.2 m³/s) on basis of two field estimates at gage height 14.5 ft (4.420 m) and slope-area measurement of maximum flow; no flow at times in some years.

(Combined flow).--Current year: Maximum discharge, 173 ft³/s (4.90 m³/s) July 19; minimum daily, 18 ft³/s (0.51 m³/s) Dec. 28-31.

Period of record: Maximum discharge, 35,400 ft³/s (1,000 m³/s) Jan. 25, 1969; minimum daily, 2.7 ft³/s (0.077 m³/s) Feb. 23, 1949.

REMARKS.--Records poor. No regulation above station. Mill Creek power canals Nos. 1, 2, and 3 divert from points 100 ft (30 m), 3 mi (5 km), and 6 mi (10 km) above station, respectively. Combined flow of Mill Creek and Mill Creek power canals Nos. 1, 2, and 3 is given on following page. See schematic diagram of Santa Ana River basin.

COOPERATION.--Water-stage recorder graph and 12 discharge measurements for Mill Creek power canals Nos. 2 and 3 furnished by Southern California Edison Co., in connection with a Federal Power Commission project.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.14	.10	.40	.43	.43	.31	1.1	.12	.12	1.3	.01	.03
2	.14	.10	.40	.37	.50	41	35	.12	.12	2.2	6.8	.02
3	.14	.10	.40	.43	2.3	36	16	.09	.09	1.1	14	.01
4	.14	.10	.40	2.5	.50	12	6.7	.12	.09	1.1	19	3.0
5	.14	.10	.40	4.3	.57	.31	4.6	.16	.06	1.0	12	7.0
6	.14	.10	.40	11	.88	.31	2.0	.16	.06	.92	12	.01
7	.14	.10	.40	35	1.1	.31	1.6	.20	.12	.92	10	.01
8	.14	.10	.40	34	.43	1.7	1.3	.20	.16	.82	6.0	.01
9	.13	.10	.40	10	.43	.31	1.1	.25	.16	.82	.50	.01
10	.13	.10	.40	2.7	1.6	.31	6.7	.25	.16	.73	.10	.01
11	.13	.10	.37	2.7	2.3	.31	5.3	.25	.20	.73	.10	.01
12	.13	.10	.37	2.7	.43	.31	.65	.31	.25	.65	.10	.01
13	.13	.10	.37	2.7	.43	.31	.57	.43	.25	.57	.10	.01
14	.13	.10	.31	2.7	.43	.31	.50	.43	.57	1.2	.10	.01
15	.13	.10	.31	2.7	.43	.31	.43	.43	.86	1.7	.10	.01
16	.13	.10	.31	2.7	.43	.65	.37	.43	.16	.57	.05	.01
17	.13	.10	.31	2.7	.43	4.1	.31	.43	.16	.37	.05	.01
18	.13	30	.31	2.7	.43	4.5	.25	.50	.16	.31	.05	.01
19	.13	21	.31	2.7	.37	1.2	.20	.50	.20	18	.05	.01
20	.13	10	.31	3.2	.37	1.2	.20	.57	.25	21	.05	.01
21	.13	9.0	.31	3.2	.37	.92	.20	.57	.31	17	.05	.01
22	.13	9.0	.31	.57	.37	1.0	.20	.57	.31	14	.05	.01
23	.13	10	.31	.57	.31	.92	.20	.43	.31	12	.05	.01
24	.13	8.0	.31	.57	.31	2.0	.20	.25	.31	14	.05	.01
25	.12	7.0	.31	.57	.31	3.3	.20	1.1	1.2	15	.05	.01
26	.12	4.0	.31	.65	.31	2.1	.30	1.5	2.5	13	.05	.01
27	.12	.40	.31	.65	.31	1.1	1.6	.12	3.1	11	.05	.01
28	.12	.40	.31	.57	.31	1.2	3.1	.12	.98	3.0	.05	.01
29	.12	.40	.31	.57	-----	.82	.30	.12	.06	2.0	.05	.01
30	.12	.40	.31	.50	-----	.73	.15	.09	.02	.01	.05	.01
31	.12	-----	.31	.50	-----	1.1	-----	.12	-----	.01	.05	-----
TOTAL	4.04	111.30	10.69	137.15	17.59	120.95	91.33	10.94	13.30	157.03	81.71	10.31
MEAN	.13	3.71	.34	4.42	.63	3.90	3.04	.35	.44	5.07	2.64	.34
MAX	.14	30	.40	35	2.3	41	35	1.5	3.1	21	19	7.0
MIN	.12	.10	.31	.37	.31	.31	.15	.09	.02	.01	.01	.01
AC-FT	8.0	221	21	272	35	240	181	22	26	311	162	20

CAL YR 1973 TOTAL 3,715.13 MEAN 10.2 MAX 59 MIN .10 AC-FT 7,370
 WTR YR 1974 TOTAL 766.34 MEAN 2.10 MAX 41 MIN .01 AC-FT 1,520

PEAK DISCHARGE (BASE, 100 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-2	1100	8.64	107	8-4	1500	8.57	120
7-19	1600	8.60	140				

SANTA ANA RIVER BASIN

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1105400 MILL CREEK NEAR YUCAIPA, CALIF.--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF MILL CREEK AND MILL CREEK POWER
CANALS NOS. 1, 2, AND 3 NEAR YUCAIPA, CALIF., WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	22	25	21	23	30	27	30	25	25	20	20
2	23	22	25	19	23	54	57	30	25	26	25	20
3	24	22	23	19	23	36	38	29	25	24	23	20
4	23	22	22	23	23	30	36	30	23	24	30	20
5	23	22	22	25	23	29	34	30	25	23	24	20
6	24	24	22	33	23	28	35	29	24	23	23	20
7	23	23	21	40	23	31	34	29	26	22	21	20
8	23	23	21	45	22	37	34	29	27	22	22	20
9	24	24	21	31	22	32	35	29	26	22	21	20
10	23	23	21	27	21	31	33	29	26	22	21	20
11	23	22	20	25	21	30	32	29	24	22	21	19
12	22	21	20	26	21	31	32	29	25	22	21	20
13	23	22	20	25	21	31	33	29	24	22	20	20
14	22	23	20	25	21	32	32	30	25	21	21	19
15	22	23	20	26	21	32	32	30	24	22	19	19
16	22	21	20	26	21	29	32	29	24	21	19	19
17	22	21	20	33	21	31	32	29	24	21	20	19
18	22	38	20	31	21	36	32	29	24	21	20	19
19	22	31	19	31	21	31	32	29	25	35	20	19
20	22	30	19	32	21	32	32	28	25	28	21	19
21	22	28	20	36	21	30	31	27	25	25	21	19
22	22	27	19	28	21	30	30	27	25	24	21	19
23	23	28	19	27	20	30	32	28	24	23	22	19
24	22	26	19	26	20	30	32	27	24	22	21	19
25	22	24	19	26	20	29	30	27	24	22	21	19
26	22	24	19	25	20	28	30	25	25	21	21	19
27	22	24	19	25	20	26	30	25	26	21	21	19
28	22	24	18	24	21	26	31	25	25	21	21	19
29	22	23	18	24	-----	26	30	26	25	20	21	19
30	22	23	18	23	-----	27	30	25	24	20	21	19
31	22	-----	18	23	-----	27	-----	26	-----	20	20	-----
TOTAL	698	730	627	850	599	962	990	873	743	707	663	582
MEAN	22.5	24.3	20.2	27.4	21.4	31.0	33.0	28.2	24.8	22.8	21.4	19.4
MAX	24	38	25	45	23	54	57	30	27	35	30	20
MIN	22	21	18	19	20	26	27	25	23	20	19	19
AC-FT	1,380	1,450	1,240	1,690	1,190	1,910	1,960	1,730	1,470	1,400	1,320	1,150

CAL YR 1973 TOTAL 11,958 MEAN 32.8 MAX 82 MIN 12 AC-FT 23,720
WTR YR 1974 TOTAL 9,024 MEAN 24.7 MAX 57 MIN 18 AC-FT 17,900

PEAK DISCHARGE (BASE, 100 FT³/S)
DATE TIME DISCHARGE DATE TIME DISCHARGE
3-2 1100 117 8-4 1500 130
7-19 1600 173

11055500 PLUNGE CREEK NEAR EAST HIGHLANDS, CALIF.

LOCATION.--Lat 34°07'06", long 117°08'27", in SW¼NE¼NE¼ sec.1, T.1 S., R.3 W., San Bernardino County, on left bank at mouth of canyon at crossing of North Fork ditch siphon, 1.8 mi (2.9 km) northeast of East Highlands.

DRAINAGE AREA.--16.9 mi² (43.8 km²).

PERIOD OF RECORD.--January 1919 to current year; combined records of creek and diversions, March 1951 to current year.

GAGE.--Water-stage recorder in concrete shelter; water-stage recorder and weir on upper diversion; water-stage recorder and concrete-lined canal on middle diversion; crest-stage gage and sharp-crested weir on lower diversion. Altitude of gage is 1,590 ft (485 m), from topographic map. Prior to Oct. 1, 1969, at datum 4.00 ft (1.219 m) higher.

AVERAGE DISCHARGE (Creek only).--55 years, 6.17 ft³/s (0.175 m³/s), 4,470 acre-ft/yr (5.51 hm³/yr).
(Combined creek and diversions).--23 years, 7.72 ft³/s (0.2186 m³/s), 5,590 acre-ft/yr (6.89 hm³/yr).

EXTREMES (Creek only).--Current year: Maximum discharge, 114 ft³/s (3.23 m³/s) Jan. 7 (gage height, 3.08 ft or 0.939 m); no flow many days.

Period of record: Maximum discharge, 5,340 ft³/s (151 m³/s) Mar. 2, 1938, on basis of slope-area measurement of maximum flow; no flow for part of most years.

(Combined flow).--Current year: Maximum discharge, 114 ft³/s (3.23 m³/s) Jan. 7; minimum daily, 0.75 ft³/s (0.021 m³/s) Sept. 12.

Period of record: Maximum discharge, 4,770 ft³/s (135 m³/s) Dec. 6, 1966; no flow Nov. 12, 1964, Sept. 29, 1965.

REMARKS.--Records fair. No regulation above station. Diversion from Alder Creek to Upper Plunge Creek area was active 1904-67. Diversions for irrigation are made at sites 0.5 mi (0.8 km), 1.0 mi (1.6 km), and 2.5 mi (4.0 km) above station. Water has been diverted above station for irrigation during entire period of record. Combined discharge of Plunge Creek and upper, middle, and lower diversions is given on following page. No flow in lower diversion since May 29, 1966. See schematic diagram of Santa Ana River basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.16	.24	2.9	4.8	8.0	2.4	6.9	2.0	.57	.27	0	.01
2	.24	.35	4.6	2.9	7.7	35	34	2.5	.52	.35	.05	0
3	.27	.47	2.8	2.5	7.4	20	15	2.5	.43	.39	.14	0
4	.24	.47	2.1	4.1	7.2	12	11	2.1	.27	.24	.14	0
5	.21	.47	2.0	8.0	7.0	11	8.9	2.1	.24	.21	.10	0
6	.21	.47	1.8	14	6.5	9.2	7.7	2.0	.24	.21	.10	0
7	.35	.39	1.7	92	6.0	11	7.4	1.9	.39	.24	.10	0
8	.47	.39	1.7	45	5.5	46	6.9	1.4	.39	.27	.14	0
9	.47	.47	1.6	15	5.5	36	7.2	1.6	.18	.27	.16	0
10	.47	.47	1.6	14	5.5	28	8.3	1.9	.14	.35	.18	0
11	.39	.39	1.4	13	5.3	25	7.2	1.6	.06	.43	.18	0
12	.35	.39	1.4	12	4.3	23	6.2	1.4	.02	.35	.14	0
13	.35	.47	1.4	11	3.7	23	6.0	1.6	.01	.24	.24	.01
14	.35	.52	1.4	11	3.2	22	5.7	1.9	.01	.18	.18	.03
15	.24	.62	1.4	10	2.9	20	5.5	1.9	.01	.21	.18	.04
16	.24	.68	1.4	10	2.9	19	5.3	1.8	0	.16	.24	.03
17	.24	.95	1.4	10	2.9	17	4.3	1.6	0	.12	.05	.02
18	.21	12	1.4	9.8	2.9	16	4.3	1.6	0	.10	.03	.02
19	.16	4.1	1.4	9.8	2.9	15	4.3	1.6	0	.10	.03	.02
20	.16	2.6	1.4	15	2.8	15	4.3	1.4	0	.12	.04	.05
21	.21	2.0	1.4	45	2.6	15	4.3	1.3	0	.10	.05	.06
22	.27	1.6	1.4	14	2.1	13	3.2	1.2	0	.12	.03	.05
23	.35	2.2	1.4	12	1.5	13	3.2	1.0	0	.24	.03	.05
24	.39	1.9	1.4	11	.95	12	2.9	.88	0	.06	.01	.14
25	.39	1.6	1.6	11	.88	11	2.8	.68	0	.04	.01	.35
26	.35	1.6	1.8	10	.88	10	2.8	.62	0	.03	0	.52
27	.27	1.6	1.6	10	.81	8.9	2.6	.57	0	.01	0	.43
28	.24	1.4	1.6	9.6	1.1	7.2	2.5	.81	.05	0	.01	.39
29	.24	1.4	1.8	9.2	-----	6.9	2.4	1.4	.21	0	.01	.24
30	.27	1.4	1.6	8.8	-----	6.4	2.2	1.0	.21	0	.01	.21
31	.21	-----	1.6	8.4	-----	6.4	-----	.57	-----	0	.01	-----
TOTAL	8.97	43.61	54.0	462.9	110.92	515.4	195.3	46.43	3.95	5.41	2.59	2.67
MEAN	.29	1.45	1.74	14.9	3.96	16.6	6.51	1.50	.13	.17	.084	.089
MAX	.47	12	4.6	92	8.0	46	34	2.5	.57	.43	.24	.52
MIN	.16	.24	1.4	2.5	.81	2.4	2.2	.57	0	0	0	0
AC-FT	18	87	107	918	220	1,020	387	92	7.8	11	5.1	5.3

CAL YR 1973 TOTAL 3,542.07 MEAN 9.70 MAX 233 MIN .01 AC-FT 7,030
WTR YR 1974 TOTAL 1,452.15 MEAN 3.98 MAX 92 MIN 0 AC-FT 2,880

PEAK DISCHARGE (BASE, 130 FT³/S).--No peak above base.

11055500 PLUNGE CREEK NEAR EAST HIGHLANDS, CALIF.--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF PLUNGE CREEK AND
DIVERSIONS NEAR EAST HIGHLANDS, CALIF., WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.3	3.8	5.7	8.0	6.6	9.1	4.5	3.2	1.4	.96	.79
2	1.3	1.5	5.2	4.0	7.7	36	36	4.9	3.1	1.5	1.0	.78
3	1.4	1.6	3.7	3.6	7.4	21	17	4.8	3.0	1.5	1.1	.78
4	1.3	1.6	3.2	4.8	7.2	12	13	4.5	2.9	1.3	1.1	.78
5	1.3	1.6	3.1	8.0	7.0	11	11	4.6	2.8	1.3	1.1	.78
6	1.3	1.6	2.9	14	6.5	9.2	11	4.5	2.7	1.3	1.0	.76
7	1.5	1.5	2.7	92	6.0	11	9.8	4.4	3.1	1.3	1.0	.76
8	1.6	1.5	2.7	45	5.5	46	9.2	4.0	3.1	1.4	1.1	.76
9	1.6	1.6	2.6	15	5.5	37	9.5	4.3	2.6	1.3	1.1	.76
10	1.6	1.6	2.6	14	5.5	28	11	4.6	2.4	1.3	1.1	.76
11	1.5	1.5	2.4	13	4.9	25	9.5	4.2	2.4	1.5	1.1	.76
12	1.5	1.5	2.4	12	4.9	23	8.5	4.0	2.1	1.5	1.0	.75
13	1.5	1.6	2.4	11	4.4	23	8.4	4.2	2.2	1.3	1.1	.81
14	1.4	1.6	2.4	11	4.4	22	8.0	4.5	2.1	1.3	1.1	.83
15	1.2	1.7	2.4	10	4.1	20	7.8	4.6	2.1	1.2	.98	.76
16	1.2	1.8	2.4	10	4.1	19	7.8	4.5	1.9	1.2	1.0	.78
17	1.2	2.0	2.4	10	4.1	17	7.7	4.3	1.8	1.1	.93	.80
18	1.2	12	2.4	9.3	4.1	16	6.8	4.3	1.9	1.0	.90	.80
19	1.2	4.5	2.4	9.3	4.1	15	6.8	4.3	1.9	1.0	.93	.80
20	1.2	3.3	2.5	15	4.0	15	6.8	3.9	1.7	1.0	.98	.85
21	1.3	2.8	2.5	45	3.8	15	6.8	3.8	1.7	1.0	.97	.86
22	1.4	2.6	2.5	14	3.3	13	5.7	3.7	1.8	1.0	.91	.85
23	1.5	3.2	2.5	12	2.7	13	5.7	3.6	1.6	1.2	.87	.85
24	1.5	2.9	2.3	11	2.2	12	5.5	3.4	1.5	1.2	.84	.94
25	1.5	2.6	2.4	11	2.1	11	5.4	3.2	1.5	1.2	.83	1.2
26	1.5	2.7	2.7	10	2.1	10	5.4	3.0	1.5	1.2	.81	1.3
27	1.4	2.7	2.6	10	2.0	11	5.2	3.0	1.4	1.0	.80	1.2
28	1.2	2.5	2.6	9.6	2.3	9.4	5.1	2.9	1.3	.97	.81	1.2
29	1.2	2.4	2.8	9.2	-----	9.1	4.9	3.2	1.3	.99	.81	1.1
30	1.4	2.4	2.7	8.8	-----	8.6	4.7	3.4	1.3	.99	.81	1.1
31	1.3	-----	2.7	8.4	-----	8.6	-----	3.4	-----	.96	.81	-----
TOTAL	42.5	73.7	84.9	466.7	129.9	533.5	269.1	124.5	63.9	37.41	29.85	26.25
MEAN	1.37	2.46	2.74	15.1	4.64	17.2	8.97	4.02	2.13	1.21	.96	.88
MAX	1.6	12	5.2	92	8.0	46	36	4.9	3.2	1.5	1.1	1.3
MIN	1.2	1.3	2.3	3.6	2.0	6.6	4.7	2.9	1.3	.96	.80	.75
AC-FT	84	146	168	926	258	1,060	534	247	127	74	59	52

CAL YR 1973 TOTAL 3,636.59 MEAN 9.96 MAX 233 MIN 1.2 AC-FT 7,210
WTR YR 1974 TOTAL 1,882.21 MEAN 5.16 MAX 92 MIN .75 AC-FT 3,730

PEAK DISCHARGE (BASE, 130 FT³/S).--No peak above base.

SANTA ANA RIVER BASIN

11055800 CITY CREEK NEAR HIGHLAND, CALIF.

LOCATION.--Lat 34°08'38", long 117°11'16", in SE¼SW¼NW¼ sec.27, T.1 N., R.3 W., San Bernardino County, on right bank 0.6 mi (1.0 km) upstream from Highland Avenue, and 1.5 mi (2.4 km) northeast of Highland.

DRAINAGE AREA.--19.6 mi² (50.8 km²).

PERIOD OF RECORD.--October 1919 to current year; combined records of creek and canal, June 1924 to current year.

GAGE.--Water-stage recorder on creek; water-stage recorder on canal. Altitude of gage is 1,580 ft (482 m), from topographic map. Prior to Mar. 1, 1939, at site 0.2 mi (0.3 km) downstream at different datum.

AVERAGE DISCHARGE (Creek only).--55 years, 8.76 ft³/s (0.248 m³/s), 6,350 acre-ft/yr (7.83 hm³/yr).

(Combined).--50 years, 10.4 ft³/s (0.295 m³/s), 7,530 acre-ft/yr (9.28 hm³/yr).

EXTREMES (Creek only).--Current year: Maximum discharge, 126 ft³/s (3.57 m³/s) Jan. 8 (gage height, 4.49 ft or 1.369 m); no flow Oct. 3, Sept. 18-26, 29, 30.

Period of record: Maximum discharge, 7,000 ft³/s (198 m³/s) Feb. 25, 1969 (gage height, 9.39 ft or 2.862 m), from rating curve extended above 580 ft³/s (16.4 m³/s) on basis of slope-area measurement at gage height 8.83 ft (2.691 m); no flow for several months in some years.

(Combined).--Current year: Maximum discharge, 126 ft³/s (3.57 m³/s) Jan. 8; minimum daily, 0.20 ft³/s (0.006 m³/s) Sept. 22.

Period of record: Maximum discharge, 7,000 ft³/s (198 m³/s) Feb. 25, 1969; no flow at times in some years.

REMARKS.--Records fair. No regulation above station. City Creek Water Co.'s canal has diverted from point 0.5 mi (0.8 km) above station for irrigation throughout period of record. See schematic diagram of Santa Ana River basin. Combined discharge of City Creek and canal is given on following page.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	.09	3.2	1.1	7.7	7.2	5.0	2.0	1.8	.02	.04	.06
2	.30	.12	3.8	1.0	7.4	18	14	2.1	1.6	.03	.05	.06
3	0	.13	3.3	3.0	7.2	14	10	2.3	3.2	.03	.05	.05
4	.20	.12	3.0	5.6	7.0	10	8.8	2.6	3.2	.03	.05	.05
5	.30	.12	2.8	9.6	6.8	9.2	8.3	2.8	2.4	.03	.04	.04
6	.55	.13	2.7	16	7.2	7.5	6.9	2.4	1.5	.03	.04	.03
7	1.3	.14	2.6	75	7.2	17	6.7	2.1	1.5	.04	.04	.04
8	2.8	.13	2.4	80	6.3	56	6.2	2.0	1.6	.04	.04	.04
9	1.6	.14	2.4	30	6.3	27	6.1	2.3	1.1	.04	.05	.03
10	.15	.15	2.4	16	6.0	22	6.5	2.5	1.1	.05	.05	.02
11	.11	.15	2.4	12	6.0	20	5.9	2.2	1.1	.06	.05	.01
12	.09	.15	2.5	12	5.4	17	5.5	2.4	1.1	.06	.15	.02
13	.07	.15	2.5	14	6.0	14	5.4	2.8	1.0	.06	.11	.02
14	.04	.15	2.6	14	6.0	12	5.2	3.0	.94	.06	.07	.02
15	.20	.18	2.6	13	5.4	11	5.0	3.4	.85	.05	.07	.01
16	.20	.18	2.6	12	5.4	10	4.9	3.4	.80	.05	.32	.01
17	.20	.21	2.4	14	5.4	9.2	4.8	2.8	.88	.04	.32	.01
18	.20	7.8	2.5	13	6.0	8.5	4.1	4.0	.85	.04	.37	0
19	.20	1.0	2.6	13	5.4	7.9	3.4	7.8	1.2	.04	.41	0
20	.08	1.8	2.4	16	6.3	7.4	3.3	6.6	1.3	.05	.11	0
21	.11	3.2	2.5	37	6.0	7.0	3.0	2.3	.79	.04	.07	0
22	.14	3.0	2.5	18	4.7	6.6	2.8	2.6	.71	.04	.06	0
23	.13	3.8	2.6	14	3.6	6.3	2.8	2.1	.73	.04	.06	0
24	.12	3.2	2.6	12	3.4	6.0	2.9	1.8	.65	.04	.06	0
25	.09	2.8	2.7	11	3.4	5.8	3.0	1.6	.61	.05	.06	0
26	.10	2.6	1.5	11	3.4	5.6	3.0	1.4	.57	.05	.06	0
27	.09	2.6	1.0	10	3.2	5.4	2.8	1.3	.25	.03	.05	.01
28	.09	2.4	.63	9.3	4.7	5.3	2.4	1.4	.02	.04	.05	.01
29	.07	2.4	.63	8.8	-----	5.2	2.1	1.5	.02	.05	.06	0
30	.07	2.3	.46	8.4	-----	5.1	2.1	1.8	.01	.04	.06	0
31	.08	-----	.37	8.0	-----	5.0	-----	1.9	-----	.03	.06	-----
TOTAL	10.18	41.34	71.19	517.8	158.8	368.2	152.9	81.2	33.38	1.30	3.08	.54
MEAN	.33	1.38	2.30	16.7	5.67	11.9	5.10	2.62	1.11	.042	.099	.018
MAX	2.8	7.8	3.8	80	7.7	56	14	7.8	3.2	.06	.41	.06
MIN	0	.09	.37	1.0	3.2	5.0	2.1	1.3	.01	.02	.04	0
AC-FT	20	82	141	1,030	315	730	303	161	66	2.6	6.1	1.1

CAL YR 1973 TOTAL 3,226.61 MEAN 8.84 MAX 248 MIN 0 AC-FT 6,400
WTR YR 1974 TOTAL 1,439.91 MEAN 3.95 MAX 80 MIN 0 AC-FT 2,860

PEAK DISCHARGE (BASE, 150 FT³/S).--No peak above base.

11055800 CITY CREEK NEAR HIGHLAND, CALIF.--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF CITY CREEK AND CITY CREEK
WATER CO.'S CANAL NEAR HIGHLAND, CALIF., WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	1.6	3.2	5.9	7.7	7.2	5.0	3.8	3.6	.96	.60	.30
2	1.7	1.9	3.8	3.7	7.4	18	14	4.0	2.9	1.0	.71	.33
3	1.6	2.2	3.3	3.1	7.2	14	10	4.3	3.4	1.0	.85	.43
4	1.5	2.2	3.0	5.6	7.0	10	8.8	4.9	3.4	.90	.87	.39
5	1.5	2.1	2.8	9.6	6.8	9.2	8.3	5.1	3.1	.80	.89	.37
6	1.5	2.0	2.7	16	7.2	7.5	6.9	4.6	2.7	.78	.75	.37
7	1.9	2.0	2.6	75	7.2	17	6.7	4.2	3.1	.89	.67	.40
8	2.9	1.9	2.4	80	6.3	56	6.3	4.0	3.1	.99	.74	.43
9	2.5	2.0	2.4	30	6.3	27	6.8	4.5	2.2	1.0	.91	.41
10	2.2	2.0	2.4	16	6.0	22	7.2	4.8	2.1	1.2	.95	.33
11	1.9	2.0	2.4	12	6.0	20	6.4	4.4	2.1	1.4	.65	.35
12	1.8	2.0	2.5	12	5.4	17	5.9	4.6	2.0	1.3	.54	.45
13	1.7	2.4	2.5	14	6.0	14	5.8	5.1	1.9	1.1	.86	.58
14	1.5	2.6	2.6	14	6.0	12	5.6	5.4	1.7	1.1	.82	.57
15	1.5	2.8	2.6	13	5.4	11	5.3	5.7	1.6	1.2	.54	.53
16	1.5	2.9	2.6	12	5.4	10	5.2	5.7	1.4	1.0	.32	.47
17	1.5	3.3	2.4	14	5.4	9.2	5.1	5.1	1.5	.87	.33	.36
18	1.5	14	2.5	13	6.0	8.5	5.0	5.3	1.6	.76	.37	.28
19	1.5	7.1	2.6	13	5.6	7.9	5.2	7.8	1.8	.79	.75	.30
20	1.5	4.2	2.4	16	6.3	7.4	5.2	6.6	1.8	.99	.86	.31
21	1.7	3.2	2.5	37	6.0	7.0	4.9	3.2	1.5	.88	.89	.21
22	1.9	3.0	2.5	18	5.4	6.6	4.7	4.3	1.3	.87	.72	.20
23	2.1	3.8	2.6	14	4.9	6.3	4.8	3.9	1.3	.87	.58	.21
24	2.1	3.2	2.6	12	4.7	6.0	4.9	3.6	1.1	.93	.48	.34
25	1.7	2.8	2.7	11	4.7	5.8	5.2	3.1	1.0	.94	.45	.48
26	1.7	2.6	2.5	11	4.7	5.6	5.2	2.7	.91	.80	.38	.76
27	1.5	2.6	2.4	10	4.5	5.4	4.8	2.6	.88	.72	.35	.92
28	1.4	2.4	2.5	9.3	5.2	5.3	4.4	2.8	.81	.60	.41	.91
29	1.4	2.4	2.5	8.8	-----	5.2	4.0	3.1	.79	.65	.42	.55
30	1.4	2.3	2.5	8.4	-----	5.1	3.9	3.6	.83	.78	.38	.41
31	1.5	-----	2.5	8.0	-----	5.0	-----	3.8	-----	.68	.34	-----
TOTAL	53.3	91.5	81.5	25.4	166.7	368.2	181.5	136.6	57.42	28.75	19.38	12.95
MEAN	1.72	3.05	2.63	16.9	5.95	11.9	6.05	4.41	1.91	.93	.63	.43
MAX	2.9	14	3.8	80	7.7	56	14	7.8	3.6	1.4	.95	.92
MIN	1.4	1.6	2.4	3.1	4.5	5.0	3.9	2.6	.79	.60	.32	.20
AC-FT	106	181	162	1,040	331	730	360	271	114	57	38	26

CAL YR 1973 TOTAL 3,540.00 MEAN 9.70 MAX 248 MIN 1.4 AC-FT 7,020
 WTR YR 1974 TOTAL 1,723.20 MEAN 4.72 MAX 80 MIN .20 AC-FT 3,420

SANTA ANA RIVER BASIN

11056500 LITTLE SAN GORGONIO CREEK NEAR BEAUMONT, CALIF.

LOCATION.--Lat 34°01'45", long 116°56'43", in NW¼SW¼NW¼ sec.1, T.2 S., R.1 W., San Bernardino County, on right bank at upstream side of bridge on Oak Glen Road, 3.0 mi (4.8 km) upstream from Wallace Creek, and 7 mi (11 km) north of Beaumont.

DRAINAGE AREA.--3.23 mi² (8.37 km²).

PERIOD OF RECORD.--October 1948 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 4,320 ft (1,317 m), from topographic map. Prior to July 30, 1970, at site 42 ft (13 m) downstream on left bank at same datum.

AVERAGE DISCHARGE.--26 years, 0.46 ft³/s (0.0130 m³/s), 333 acre-ft/yr (411,000 m³/yr).

EXTREMES.--Current year: Maximum discharge, 24 ft³/s (0.68 m³/s) Apr. 2 (gage height, 3.90 ft or 1.190 m); minimum daily, 0.02 ft³/s (0.0006 m³/s) Oct. 1-7, Sept. 7, 9, 10.

Period of record: Maximum discharge, 11,000 ft³/s (312 m³/s) Feb. 25, 1969 (gage height, 8.50 ft or 2.591 m, from floodmarks), from rating curve extended above 32 ft³/s (0.906 m³/s) on basis of slope-area measurements at gage heights 2.18 ft (0.665 m), 3.45 ft (1.052 m), and 8.50 ft (2.591 m); no flow for several months in most years.

REMARKS.--Records poor. No regulation above station. Several small diversions above station for irrigation. See schematic diagram of Santa Ana River basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.04	.08	.25	.11	.21	.47	.27	.11	.06	.06	.03
2	.02	.05	.07	.13	.15	1.1	6.5	.27	.17	.06	.06	.04
3	.02	.06	.08	.12	.11	.91	.42	.24	.15	.06	.07	.03
4	.02	.06	.08	.10	.11	.63	.39	.27	.17	.04	.06	.04
5	.02	.06	.07	.07	.14	.44	.34	.27	.19	.03	.06	.04
6	.02	.05	.07	.14	.16	.37	.32	.24	.21	.04	.06	.04
7	.02	.05	.08	1.8	.17	.45	.30	.24	.24	.04	.05	.02
8	.04	.05	.08	.68	.16	.81	.36	.24	.27	.05	.04	.03
9	.04	.05	.08	.20	.13	2.7	.34	.24	.21	.05	.05	.02
10	.04	.05	.08	.17	.13	2.2	.38	.27	.21	.06	.05	.02
11	.04	.05	.07	.16	.16	.60	.34	.21	.21	.06	.05	.05
12	.04	.05	.07	.19	.15	.53	.34	.19	.17	.05	.05	.05
13	.04	.06	.07	.14	.14	.53	.30	.21	.16	.05	.05	.11
14	.04	.06	.07	.21	.14	.47	.30	.24	.12	.04	.05	.12
15	.05	.06	.08	.21	.13	.42	.30	.27	.11	.04	.04	.13
16	.06	.06	.08	.13	.13	.42	.30	.27	.09	.04	.04	.29
17	.05	.07	.08	.16	.14	.34	.30	.24	.09	.04	.04	.27
18	.05	.06	.08	.13	.15	.34	.34	.24	.11	.04	.04	.18
19	.05	.13	.08	.12	.15	.38	.34	.27	.12	.05	.05	.30
20	.05	.09	.08	.17	.16	.34	.30	.27	.11	.06	.04	.24
21	.06	.08	.08	.20	.16	.42	.34	.24	.09	.05	.03	.14
22	.06	.07	.08	.14	.15	.42	.34	.21	.08	.05	.04	.34
23	.06	.09	.08	.17	.14	.42	.34	.19	.08	.05	.04	.14
24	.06	.08	.08	.17	.15	.38	.34	.15	.08	.05	.04	.12
25	.06	.08	.08	.15	.14	.38	.34	.13	.08	.05	.04	1.4
26	.05	.07	.08	.12	.13	.38	.34	.09	.06	.05	.03	.36
27	.05	.07	.08	.12	.14	.47	.30	.09	.06	.04	.04	.41
28	.04	.07	.08	.12	.21	.42	.30	.09	.05	.04	.04	.39
29	.04	.06	.08	.11	-----	.47	.27	.11	.05	.05	.05	.45
30	.04	.06	.08	.11	-----	.60	.27	.13	.06	.05	.05	.39
31	.04	-----	.09	.11	-----	.58	-----	.13	-----	.05	.04	-----
TOTAL	1.29	2.48	2.42	6.43	4.04	19.80	16.10	6.52	3.21	1.49	1.45	6.19
MEAN	.042	.083	.074	.22	.14	.64	.54	.21	.13	.048	.047	.21
MAX	.06	.06	.09	1.8	.21	2.7	6.5	.27	.27	.06	.07	1.4
MIN	.02	.04	.07	.07	.11	.21	.27	.09	.05	.03	.03	.02
AC-FT	2.6	4.9	4.8	14	8.0	39	32	13	7.8	3.0	2.9	12

CAL YR 1973 TOTAL 124.58 MEAN .34 MAX 11 MIN .02 AC-FT 247
 APR YR 1974 TOTAL 72.58 MEAN .29 MAX 6.5 MIN .02 AC-FT 144

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
1-7	1845	3.78	13	9-25	1400	3.86	20
4-2	0300	3.90	24				

11057000 SAN TIMOTEO CREEK NEAR REDLANDS, CALIF.

LOCATION.--Lat 34°01'58", long 117°12'28", in NE¼NE¼NE¼ sec.5, T.2 S., R.3 W., San Bernardino County, on upstream side of left end of county highway bridge, 2.0 mi (3.2 km) southwest of Redlands, and 3.4 mi (5.5 km) downstream from Yucaipa Creek.

DRAINAGE AREA.--119 mi² (308 km²).

PERIOD OF RECORD.--October 1926 to September 1968, October 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,280 ft (390 m), from topographic map. Prior to Oct. 30, 1934, at site 2 mi (3.2 km) upstream at different datum.

AVERAGE DISCHARGE.--43 years (1926-68, 1973-74), 1.36 ft³/s (0.0385 m³/s), 985 acre-ft/yr (1.21 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 188 ft³/s (5.32 m³/s) Jan. 7 (gage height, 3.95 ft or 1.204 m); no flow most of year.

Period of record: Maximum discharge, 7,460 ft³/s (211 m³/s) Mar. 2, 1938, result of slope-area measurement of maximum flow; no flow for several months in each year.

REMARKS.--Records poor. No regulation above station. Pumping above station for irrigation. See schematic diagram of Santa Ana River basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0		0						
2				0		0						
3				0		.01						
4				11		0						
5				0		0						
6				0		0						
7				30		3.6						
8				42		50						
9				0		.65						
10				0		0						
11				0		0						
12				0		0						
13				0		0						
14				0		0						
15				0		0						
16				0		0						
17				0		0						
18				0		0						
19				0		0						
20				0		0						
21				0		0						
22				0		0						
23				0		0						
24				0		0						
25				0		0						
26				0		0						
27				0		0						
28				0		0						
29				0	-----	0						
30				0	-----	0						
31	-----			0	-----	0	-----		-----			-----
TOTAL	0	0	0	83	0	54.26	0	0	0	0	0	0
MEAN	0	0	0	2.68	0	1.75	0	0	0	0	0	0
MAX	0	0	0	42	0	50	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	165	0	108	0	0	0	0	0	0

WTR YR 1974 TOTAL 137.26 MFAN .38 MAX 50 MIN 0 AC-FT 272

PEAK DISCHARGE (BASE, 150 FT³/S).--Jan. 7 (2300) 188 ft³/s (3.95 ft).

NOTE.--No gage-height record Oct. 1 to Dec. 11, July 23 to Sept. 30.

11057500 SAN TIMOTEO CREEK NEAR LOMA LINDA, CALIF.

LOCATION.--Lat 34°03'49", long 117°16'19", in San Bernardino Grant, San Bernardino County, on right bank 50 ft (15 m) downstream from west bound lane of Interstate Highway 10, and 0.8 mi (1.3 km) northwest of Loma Linda.

DRAINAGE AREA.--125 mi² (324 km²).

PERIOD OF RECORD.--October 1954 to September 1965, February 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,015.89 ft (309.643 m) above mean sea level. Prior to February 1968, at site 0.5 mi (0.8 km) downstream at different datum.

AVERAGE DISCHARGE.--17 years (1954-65, 1968-74), 2.59 ft³/s (0.0733 m³/s), 1,880 acre-ft/yr (2.32 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 316 ft³/s (8.95 m³/s) Jan. 7 (gage height, 3.85 ft or 1.173 m); no flow many days.

Period of record: Maximum discharge, 15,000 ft³/s (425 m³/s) Feb. 25, 1969 (gage height, 8.2 ft or 2.50 m, from floodmark), from rating curve extended above 2,100 ft³/s (59.5 m³/s) on basis of slope-conveyance measurement of maximum flow; no flow many days in some years.

REMARKS.--Records good above 1 ft³/s (0.028 m³/s) and poor below. No regulation above station. Natural flow affected by pumping and return flow from irrigated areas.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.95	.65	1.3	2.6	.14	.99	2.2	.33	2.0	.53	.10	.33
2	.80	1.3	.42	.53	0	15	6.4	.25	1.1	.80	.08	.25
3	.80	1.1	.42	.25	0	9.6	1.3	.96	1.8	.96	.17	.33
4	2.0	1.1	.25	16	0	2.6	.92	.96	2.4	.96	.33	.33
5	1.6	1.3	.25	11	.07	1.8	1.0	.42	2.0	.06	.42	.19
6	2.0	1.3	.19	4.2	0	2.6	.05	.33	1.6	.01	.19	.30
7	3.0	1.8	.08	81	.24	8.7	0	.53	2.4	.33	.10	.42
8	2.6	1.3	.03	73	.70	99	.11	1.1	1.3	.51	.10	.80
9	1.6	1.1	.19	1.3	0	1.3	.73	.96	.96	.53	.25	1.1
10	1.1	.96	.19	.80	0	.03	1.1	.65	.96	.53	.19	1.3
11	1.6	.65	.03	.18	0	.15	.65	.42	1.3	.53	.04	1.3
12	2.0	.65	.11	.48	0	.16	0	.65	1.1	.42	.25	1.3
13	1.6	1.1	.14	.22	0	.09	0	.96	.96	.42	.53	1.1
14	1.6	.96	.14	.46	.09	0	.01	.65	.80	.65	.42	.96
15	2.4	1.3	.04	.06	.08	0	.33	1.6	.19	.40	.53	1.3
16	1.6	1.6	.53	0	1.3	0	.53	2.0	.96	.65	.25	1.1
17	.80	2.4	.19	.87	2.5	.02	.42	.65	1.1	1.1	.42	1.3
18	1.6	6.3	.62	.51	0	0	.53	.06	.96	.80	.42	.96
19	1.3	.65	.04	0	.11	.24	.53	1.6	.80	.80	.42	.96
20	1.1	.53	.19	.60	0	0	.15	1.3	.96	.33	.65	.96
21	1.3	.80	.19	.51	0	0	.29	1.8	1.1	.42	.96	.96
22	.80	2.3	.33	.52	.37	0	.65	1.6	1.1	.96	1.6	.65
23	.33	3.4	.33	.20	.41	0	.23	2.0	1.3	.65	.80	.70
24	.25	1.6	.25	.04	.65	0	.53	2.4	.65	.80	.96	.96
25	.65	.65	.33	.10	.60	0	.96	2.0	1.1	.65	.33	1.1
26	1.1	.42	.33	.14	.33	0	.80	.73	.96	.96	.33	1.3
27	.65	.33	.25	.05	.60	.02	.33	.92	1.1	.65	.65	1.8
28	.65	.42	.25	.16	2.1	0	.25	1.1	1.6	.04	.53	.80
29	.65	.33	.33	0	-----	0	.33	.96	.96	.15	.96	1.1
30	.42	.33	.33	0	-----	0	.33	1.3	.96	.42	.80	1.3
31	.96	-----	.65	0	-----	.34	-----	1.6	-----	.19	.42	-----
TOTAL	39.82	38.63	8.23	195.78	10.29	141.54	21.66	32.79	36.48	17.21	14.20	27.26
MEAN	1.24	1.29	.27	6.32	.37	4.57	.72	1.06	1.22	.56	.46	.91
MAX	3.0	6.3	1.3	81	2.5	99	6.4	2.4	2.4	1.1	1.6	1.8
MIN	.25	.33	.02	0	0	0	0	.06	.19	.01	.04	.19
AC-FT	79	77	16	384	20	281	43	65	72	34	28	54

CAL YR 1973 TOTAL 500.57 MEAN 1.37 MAX 75 MIN 0 AC-FT 993
WTR YR 1974 TOTAL 583.89 MEAN 1.60 MAX 99 MIN 0 AC-FT 1,160

PEAK DISCHARGE (BASE, 150 FT³/S).--Jan. 7 (2000) 316 ft³/s (3.85 ft); Mar. 8 (1300) 202 ft³/s (3.67 ft).

11058500 EAST TWIN CREEK NEAR ARROWHEAD SPRINGS, CALIF.

LOCATION.--Lat 34°10'45", long 117°15'53", in NW¼NE¼NE¼ sec.14, T.1 N., R.4 W., San Bernardino County, on right bank 100 ft (30 m) upstream from Del Rosa Water Co.'s diversion dam, 0.5 mi (0.8 km) south of Arrowhead Springs, and 1.0 mi (1.6 km) downstream from Strawberry Creek.

DRAINAGE AREA.--8.80 mi² (22.79 km²).

PERIOD OF RECORD.--December 1919 to current year. Prior to October 1952, published as Strawberry Creek near Arrowhead Springs.

GAGE.--Water-stage recorder. Broad-crested weir since September 1938. Altitude of gage is 1,590 ft (485 m), from topographic map.

AVERAGE DISCHARGE.--54 years (1920-74), 4.47 ft³/s (0.127 m³/s), 3,240 acre-ft/yr (3.99 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 163 ft³/s (4.62 m³/s) Jan. 7 (gage height, 3.77 ft or 1.149 m); minimum daily, 0.40 ft³/s (0.011 m³/s) July 26.

Period of record: Maximum discharge, 3,360 ft³/s (95.2 m³/s) Mar. 2, 1938, based on rainfall-runoff studies; practically no flow at times in 1929, 1931-35.

REMARKS.--Records fair. No regulation above station. One small diversion for domestic use above station. See schematic diagram of Santa Ana River basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.89	.90	1.5	2.5	3.0	3.0	2.8	1.5	1.2	.70	.41	.41
2	.94	.97	2.4	1.8	3.0	6.2	5.4	1.5	1.2	.71	.42	.41
3	.87	.97	1.6	1.5	2.6	5.1	3.9	1.5	1.1	.66	.41	.41
4	.81	.97	1.3	6.6	2.6	3.3	3.4	1.6	1.1	.63	.41	.41
5	.80	.97	1.4	11	2.5	2.9	3.1	1.7	1.0	.61	.45	.41
6	.86	.90	1.2	20	2.5	2.6	3.0	1.7	1.0	.53	.45	.41
7	.83	.82	1.2	90	2.5	4.7	3.0	1.6	1.2	.54	.45	.41
8	.93	.84	1.2	50	2.5	19	2.8	1.5	1.1	.55	.45	.45
9	.77	.83	1.2	15	2.5	9.3	2.9	1.6	.97	.55	.45	.45
10	.77	.77	1.2	8.0	2.6	8.2	2.8	1.7	.91	.58	.45	.41
11	.77	.77	1.1	4.8	2.8	7.6	2.5	1.5	.87	.60	.41	.45
12	.77	.83	1.0	4.7	2.5	6.0	2.4	1.5	.85	.60	.45	.41
13	.77	.83	1.2	4.8	2.6	5.0	2.4	1.6	.89	.57	.45	.41
14	.77	.83	1.2	4.5	2.6	4.2	2.4	1.6	.85	.53	.45	.41
15	.77	.90	1.2	4.2	2.5	3.8	2.3	1.7	.84	.53	.45	.41
16	.71	.95	1.2	3.8	2.6	3.5	2.1	1.6	.84	.46	.45	.45
17	.65	2.0	1.0	3.8	2.6	3.4	2.1	1.5	.82	.45	.45	.45
18	.60	10	1.2	3.5	2.6	3.2	2.1	1.5	.86	.44	.45	.50
19	.45	1.9	1.2	3.4	2.6	3.2	2.0	1.6	.82	.45	.45	.45
20	.45	1.4	1.2	3.4	2.6	3.2	2.0	1.4	.76	.45	.45	.41
21	.65	1.2	1.2	23	2.6	3.1	1.9	1.3	.72	.44	.45	.41
22	.65	1.2	1.2	8.2	2.5	3.1	1.9	1.2	.70	.44	.45	.45
23	.65	1.2	1.1	5.4	2.5	3.0	1.9	1.2	.72	.45	.45	.45
24	.71	1.1	1.1	4.3	2.5	3.1	1.8	1.2	.66	.44	.45	.50
25	.65	1.1	1.1	3.9	2.4	3.0	1.8	1.1	.73	.44	.45	.55
26	.55	1.1	1.1	3.8	2.4	2.9	1.8	1.1	.65	.40	.41	.55
27	.55	1.0	1.1	3.6	2.4	3.1	1.8	1.1	.63	.42	.41	.55
28	.55	1.0	1.0	3.4	2.8	3.0	1.7	1.1	.62	.41	.41	.50
29	.55	1.0	1.0	3.2	-----	2.9	1.6	1.2	.65	.43	.41	.47
30	.65	1.0	1.0	3.1	-----	2.9	1.6	1.2	.68	.43	.41	.43
31	.83	-----	1.0	3.0	-----	2.9	-----	1.3	-----	.42	.41	-----
TOTAL	22.07	40.25	37.6	312.2	72.4	140.4	73.2	44.4	25.94	15.86	13.52	13.39
MEAN	.71	1.34	1.21	10.1	2.59	4.53	2.44	1.43	.86	.51	.44	.45
MAX	.94	10	2.4	90	3.0	19	5.4	1.7	1.2	.71	.45	.55
MIN	.45	.77	1.0	1.5	2.4	2.6	1.6	1.1	.62	.40	.41	.41
AC-FT	44	80	75	619	144	278	145	88	51	31	27	27

CAL YR 1973 TOTAL 1,536.63 MEAN 4.21 MAX 163 MIN .36 AC-FT 3,050
WTR YR 1974 TOTAL 811.23 MEAN 2.22 MAX 90 MIN .40 AC-FT 1,610

PEAK DISCHARGE (BASE, 40 FT³/S).--Jan. 7 (time unknown) 163 ft³/s (3.77 ft); Jan. 21 (0830) 69 ft³/s (3.46 ft).

11058600 WATERMAN CANYON CREEK NEAR ARROWHEAD SPRINGS, CALIF.

LOCATION.--Lat 34°11'36", long 117°16'25", in NE¼NW¼NW¼ sec.11, T.1 N., R.4 W., San Bernardino County, on left bank 0.8 mi (1.3 km) northwest of Arrowhead Springs, and 1.3 mi (2.1 km) north of San Bernardino National Forest boundary.

DRAINAGE AREA.--4.65 mi² (12.04 km²).

PERIOD OF RECORD.--November 1911 to October 1914 (published as "near San Bernardino"), December 1919 to current year.

GAGE.--Water-stage recorder. Broad-crested weir since September 1938. Datum of gage is 2,045.46 ft (623.456 m) above mean sea level. Prior to December 1919, nonrecording gage at site 300 ft (91 m) downstream at different datum.

AVERAGE DISCHARGE.--56 years (1912-14, 1920-74), 2.58 ft³/s (0.0731 m³/s), 1,870 acre-ft/yr (2.31 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 44 ft³/s (1.25 m³/s) Jan. 7 (gage height, 2.48 ft or 0.756 m); minimum daily, 0.08 ft³/s (0.002 m³/s) Sept. 21, 22.

Period of record (1920 to current year): Maximum discharge, 2,350 ft³/s (66.6 m³/s) Mar. 2, 1938, based on rainfall-runoff studies; no flow at times in most years.

REMARKS.--Records good. No regulation above station. One small diversion for domestic use above station. See schematic diagram of Santa Ana River basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.40	.40	2.3	3.3	2.3	1.7	3.4	1.4	1.2	.74	.27	.14
2	.45	.50	1.3	1.1	2.2	4.2	6.4	1.4	1.1	.80	.29	.13
3	.50	.56	1.1	.84	2.1	4.0	3.5	1.4	1.0	.74	.31	.15
4	.40	.56	1.1	2.5	2.0	2.6	3.1	1.4	1.0	.68	.31	.13
5	.40	.56	1.1	3.0	2.0	2.5	2.9	1.4	.98	.62	.31	.14
6	.45	.50	.98	5.5	2.1	2.4	2.6	1.4	1.0	.56	.28	.14
7	.50	.50	.96	2.4	2.0	4.6	2.5	1.4	.86	.56	.30	.16
8	.80	.50	.90	1.9	1.4	11	2.5	1.4	.86	.56	.35	.13
9	.68	.50	.86	7.4	1.9	6.3	2.5	1.4	.80	.56	.37	.14
10	.57	.50	.87	5.5	1.9	5.5	2.4	1.6	.80	.65	.34	.16
11	.54	.50	.81	4.2	1.9	5.1	2.4	1.4	.86	.61	.36	.20
12	.51	.50	.86	3.7	2.0	4.8	2.2	1.5	.80	.50	.39	.16
13	.43	.56	.92	3.5	1.9	4.3	2.2	1.6	.80	.50	.36	.17
14	.41	.56	.92	3.4	1.9	3.8	2.1	1.6	.80	.45	.38	.15
15	.38	.62	.90	3.1	1.9	3.6	2.0	1.7	.80	.40	.36	.15
16	.39	.68	.89	3.0	1.9	3.2	1.9	1.6	.80	.30	.36	.12
17	.38	1.5	.86	3.4	1.8	3.1	2.0	1.6	.80	.35	.30	.12
18	.39	5.9	.86	2.6	1.8	3.2	2.1	1.5	.80	.30	.27	.11
19	.38	1.8	.86	2.4	1.8	3.2	2.1	1.7	.74	.30	.31	.12
20	.41	1.4	.86	7.0	1.8	3.2	2.1	1.4	.74	.36	.35	.10
21	.43	1.2	.87	7.4	1.8	3.1	1.8	1.3	.80	.35	.34	.08
22	.48	1.1	.86	5.5	1.8	3.1	1.8	1.2	.77	.39	.30	.08
23	.56	1.4	.86	4.6	1.8	3.0	1.8	1.2	.74	.31	.27	.11
24	.50	1.1	.81	4.2	1.8	3.0	1.7	1.3	.74	.31	.24	.16
25	.45	1.0	.62	3.8	1.7	2.8	1.7	1.2	.74	.33	.23	.20
26	.45	1.0	.80	3.5	1.7	3.0	1.7	1.1	.74	.37	.24	.23
27	.40	1.0	.80	3.1	1.7	3.8	1.6	1.1	.73	.36	.22	.32
28	.35	.98	.79	2.8	1.7	3.1	1.5	1.1	.68	.33	.23	.28
29	.35	.98	.78	2.6	-----	2.9	1.4	1.2	.66	.31	.22	.20
30	.35	.98	.80	2.5	-----	2.9	1.4	1.2	.62	.29	.20	.19
31	.35	-----	.79	2.4	-----	2.9	-----	1.2	-----	.27	.19	-----
TOTAL	14.04	29.84	29.19	150.84	53.1	115.9	69.3	42.9	24.76	14.16	9.25	4.67
MEAN	.45	.99	.94	4.87	1.90	3.74	2.31	1.38	.83	.46	.30	.16
MAX	.80	5.9	2.3	24	2.3	11	6.4	1.7	1.2	.80	.39	.32
MIN	.35	.40	.78	.84	1.7	1.7	1.4	1.1	.62	.27	.19	.08
AC-FT	28	59	58	299	105	230	137	85	49	28	18	9.3

CAL YR 1973 TOTAL 877.59 MEAN 2.40 MAX 32 MIN .30 AC-FT 1,740
 WTR YR 1974 TOTAL 557.95 MEAN 1.53 MAX 24 MIN .08 AC-FT 1,110

PEAK DISCHARGE (BASE, 35 FT³/S).--Jan. 7 (2345) 44 ft³/s (2.48 ft).

11059000 WARM CREEK FLOODWAY AT SAN BERNARDINO, CALIF.

LOCATION.--Lat 34°05'45", long 117°16'30", in San Bernardino Grant, San Bernardino County, on left bank 0.4 mi (0.6 km) upstream from Mill Street, and 1.8 mi (2.9 km) upstream from mouth.

DRAINAGE AREA.--47.8 mi² (123.8 km²).

PERIOD OF RECORD.--January 1961 to current year. Prior to October 1965, published as "near San Bernardino."

GAGE.--Water-stage recorder. Altitude of gage is 1,000 ft (305 m), from topographic map. Prior to Dec. 21, 1967, at site 0.4 mi (0.6 km) downstream at different datum.

EXTREMES.--Current year: Maximum discharge, 1,090 ft³/s (30.9 m³/s) Jan. 7 (gage height, 4.15 ft or 1.265 m); no flow part of year.

Period of record: Maximum discharge, 9,600 ft³/s (272 m³/s) Feb. 25, 1969 (gage height, 6.75 ft or 2.057 m), from rating curve extended above 3,000 ft³/s (85.0 m³/s); no flow most of each year.

REMARKS.--Records fair except those less than 1 ft³/s (0.028 m³/s), which are poor. Flow partly regulated by percolation basins above Marshall Boulevard. Del Rosa Water Co. diverts from East Twin Creek for domestic use and irrigation. See schematic diagram of Santa Ana River basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	1.2	59	1.2	1.2	9.5		0	0	.06	0
2	0	0	0	.10	.65	.81	59		0	0	.06	0
3	0	0	0	0	0	25	.71		0	0	.10	.78
4	0	0	0	153	0	1.0	.26		0	0	0	0
5	0	0	0	174	0	.10	.31		0	0	0	0
6	0	0	0	62	0	.05	.31		0	0	0	0
7	0	0	0	364	0	32	0		0	0	0	0
8	.27	0	0	239	0	262	0		0	0	0	0
9	.01	0	0	8.8	0	20	.83		0	0	.28	.84
10	.05	0	0	3.8	0	9.4	.71		0	0	0	0
11	.13	0	0	2.0	0	6.0	.17		0	0	0	0
12	0	0	0	.32	0	6.5	.87		0	0	0	.09
13	0	0	0	.10	0	4.2	0		0	0	0	0
14	0	0	0	0	0	1.7	0		0	0	0	0
15	0	0	0	0	0	1.0	0		0	0	0	0
16	0	0	0	3.7	0	0	0		0	0	0	0
17	0	1.2	0	7.5	.05	0	0		0	0	0	0
18	0	.66	0	5.6	0	0	0		0	0	.05	0
19	0	2.3	0	0	.05	.12	0		.03	0	.14	0
20	0	.10	0	37	0	.52	0		0	0	0	0
21	0	0	0	33	0	0	0		0	0	0	0
22	0	6.0	0	4.2	0	0	0		0	0	0	0
23	0	12	0	.68	0	0	0		.61	0	.12	0
24	0	.80	0	1.6	0	0	0		.44	0	0	0
25	0	.10	0	1.7	0	0	0		0	0	0	0
26	0	0	0	3.0	0	0	0		0	0	0	0
27	0	0	0	3.0	0	.33	0		0	0	0	0
28	0	0	0	.79	6.8	0	0		.01	0	0	0
29	0	0	0	0	-----	0	.26		.15	0	0	0
30	0	0	0	0	-----	0	.60		0	0	0	0
31	0	-----	0	.32	-----	0	-----		-----	.08	0	-----
TOTAL	.46	38.50	1.2	1,168.21	8.75	452.12	73.53	0	1.24	.08	.81	1.71
MEAN	.015	2.95	.039	37.7	.31	14.6	2.45	0	.041	.003	.026	.057
MAX	.27	.66	1.2	364	6.8	262	59	0	.61	.08	.28	.84
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	.9	176	2.4	2,320	17	897	146	0	2.5	.2	1.6	3.4

CAL YR 1973 TOTAL 3,014.01 MEAN 8.26 MAX 506 MIN 0 AC-FT 5,980
WTR YR 1974 TOTAL 1,796.61 MEAN 4.92 MAX 364 MIN 0 AC-FT 3,560

11059100 SAN BERNARDINO WATER QUALITY CONTROL PLANT AT SAN BERNARDINO, CALIF.

LOCATION.--Lat 34°04'16", long 117°17'16", in San Bernardino Grant, San Bernardino County, at effluent end of chlorine contact chamber, 0.5 mi (0.8 km) upstream from Santa Ana River at E Street bridge.

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 979.50 ft (298,552 m) above mean sea level (levels by city of San Bernardino).

EXTREMES.--Period of record: Maximum daily discharge, 30 ft³/s (0.85 m³/s) Jan. 7, 1974; minimum daily, 12 ft³/s (0.34 m³/s) Oct. 25, Nov. 4, 5, 7-9, 1972.

REMARKS.--Records good. Records of chemical analyses for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	26	24	25	25	25	26	24	21	24	23	20
2	26	26	25	25	25	26	27	23	21	15	25	21
3	22	24	24	25	25	25	26	23	23	23	22	23
4	27	25	26	28	26	26	25	22	23	20	22	23
5	27	26	26	28	25	24	25	22	24	23	25	23
6	24	26	26	26	25	25	24	23	24	21	24	24
7	24	26	26	30	26	25	24	23	22	21	23	22
8	25	26	25	29	25	28	25	23	22	24	23	22
9	26	26	24	26	24	25	25	22	21	23	23	24
10	26	25	26	26	24	24	25	23	24	23	22	24
11	26	24	26	26	24	25	25	22	22	23	21	24
12	26	26	26	25	25	25	25	21	22	24	23	23
13	25	26	25	25	26	25	24	23	22	22	23	23
14	24	26	25	26	25	26	23	22	24	22	22	23
15	27	25	25	26	25	26	26	23	22	26	22	21
16	26	25	24	25	25	25	26	22	21	24	23	24
17	26	24	26	26	24	24	26	23	24	24	21	24
18	26	27	26	26	25	26	25	22	23	23	20	23
19	25	26	26	24	25	25	26	21	23	24	23	23
20	25	26	25	25	26	26	25	24	23	23	23	23
21	23	26	25	26	26	25	24	23	22	21	23	23
22	25	24	24	26	26	21	26	23	21	24	23	22
23	25	26	24	26	25	25	25	16	20	24	23	24
24	25	25	25	26	24	24	25	24	24	24	22	23
25	25	25	23	26	25	27	26	22	23	24	21	23
26	25	26	25	24	26	25	26	22	24	24	23	23
27	24	26	24	25	25	25	25	23	23	22	23	23
28	24	24	24	26	25	25	24	24	24	21	22	22
29	26	26	25	26	-----	25	26	24	22	24	22	22
30	26	26	23	25	-----	25	26	24	21	23	23	24
31	25	-----	26	25	-----	24	-----	23	-----	24	21	-----
TOTAL	783	765	774	803	702	777	756	699	675	707	699	686
MEAN	25.3	25.5	25.0	25.9	25.1	25.1	25.2	22.5	22.5	22.8	22.5	22.9
MAX	27	27	26	30	26	28	27	24	24	26	25	24
MIN	22	24	23	24	24	21	23	16	20	15	20	20
AC-FT	1,550	1,520	1,540	1,590	1,390	1,540	1,500	1,390	1,340	1,400	1,390	1,360
CAL YR 1973	TOTAL 8,887		MEAN 24.3	MAX 28	MIN 16	AC-FT 17,630						
WTR YR 1974	TOTAL 8,826		MEAN 24.2	MAX 30	MIN 15	AC-FT 17,510						

11059300 SANTA ANA RIVER AT E STREET, NEAR SAN BERNARDINO, CALIF.

LOCATION.--Lat 34°04'05", long 117°17'36", in San Bernardino Grant, San Bernardino County, on downstream side of E Street bridge, 0.8 mi (1.3 km) downstream from San Timoteo Creek, 1 mi (2 km) upstream from Warm Creek, and 3 mi (5 km) south of San Bernardino.

DRAINAGE AREA.--532 mi² (1,378 km²).

PERIOD OF RECORD.--March 1939 to September 1954, October 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 954.50 ft (290.932 m) above mean sea level. Prior to Nov. 10, 1950, water-stage recorder on right bank at datum 10.00 ft (3.048 m) higher. Nov. 11, 1950, to Sept. 30, 1954, water-stage recorders on both banks at datum 10.00 ft (3.048 m) higher.

AVERAGE DISCHARGE.--15 years (1939-54), 12.5 ft³/s (0.354 m³/s), 9,050 acre-ft/yr (11.2 hm³); 8 years (1966-74), 68.9 ft³/s (1.951 m³/s), 49,920 acre-ft/yr (61.6 hm³).

EXTREMES.--Current year: Maximum discharge, about 3,980 ft³/s (113 m³/s) Jan. 7 (gage height, 4.23 ft or 1.289 m); minimum daily, 18 ft³/s (0.51 m³/s) May 23.
Period of record: Maximum discharge, 28,000 ft³/s (793 m³/s) Feb. 25, 1969; maximum gage height, 16.50 ft (5.029 m), present datum, Jan. 23, 1943, discharge uncertain but was probably less than 8,000 ft³/s (227 m³/s); no flow many days prior to 1967.

REMARKS.--Records poor. Flow partly regulated by Big Bear Lake (see sta 11049000). Natural flow of stream affected by ground-water withdrawals and diversions for domestic use and irrigation above station. Effluent from sewage reclamation plant causes sustained flow since station was last operated. See schematic diagram of Santa Ana River basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	27	26	182	26	27	38	24	23	25	23	20
2	27	27	25	54	26	122	92	23	22	23	25	21
3	23	25	27	54	25	59	28	24	25	24	22	24
4	29	26	26	448	26	30	26	23	25	21	22	23
5	29	27	26	318	25	26	26	22	26	23	25	23
6	26	27	26	141	25	28	24	23	26	21	24	24
7	27	28	26	1,100	26	66	24	24	24	21	23	22
8	28	27	26	713	26	389	25	24	23	25	23	23
9	28	27	24	42	24	46	27	23	22	24	24	26
10	27	26	27	37	24	33	27	24	25	24	22	25
11	28	25	27	30	24	31	26	22	23	24	21	25
12	28	27	26	27	25	32	26	22	23	24	23	24
13	27	27	26	27	26	29	24	24	23	22	24	24
14	26	27	26	27	25	28	23	23	25	23	22	24
15	29	26	25	28	25	27	26	25	22	26	23	22
16	28	27	26	29	26	25	27	24	22	25	23	25
17	27	28	26	32	26	24	26	24	25	25	21	25
18	28	238	27	32	25	26	26	22	24	24	20	24
19	26	47	26	24	25	25	27	23	24	25	24	24
20	26	30	26	63	26	27	25	25	24	23	24	24
21	24	28	26	60	26	25	24	25	23	21	24	24
22	26	27	24	31	26	21	27	25	22	25	25	23
23	25	67	24	27	25	25	25	18	22	25	25	25
24	25	32	26	28	25	24	26	26	25	43	23	24
25	26	28	23	23	26	27	27	24	24	25	21	24
26	26	26	26	27	26	25	27	23	25	25	23	24
27	25	26	26	28	26	25	25	24	24	23	24	25
28	25	24	26	27	34	25	24	25	25	21	23	23
29	27	26	25	26	-----	25	27	25	23	24	23	23
30	26	26	25	25	-----	25	27	25	22	23	24	25
31	26	-----	27	25	-----	24	-----	25	-----	24	21	-----
TOTAL	826	1,079	798	3,740	720	1,371	852	733	711	751	714	712
MEAN	26.6	36.0	25.7	121	25.7	44.2	28.4	23.6	23.7	24.2	23.0	23.7
MAX	29	238	27	1,100	34	389	92	26	26	43	25	26
MIN	23	24	23	24	24	21	23	18	22	21	20	20
AC-FT	1,640	2,140	1,580	7,420	1,430	2,720	1,690	1,450	1,410	1,490	1,420	1,410
CAL YR 1973	TOTAL 15,579	MEAN 42.7	MAX 1,070	MIN 16	AC-FT 30,900							
WTR YR 1974	TOTAL 13,007	MEAN 35.6	MAX 1,100	MIN 18	AC-FT 25,800							

		PEAK DISCHARGE (BASE, 400 FT ³ /S)					
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-18	0600	3.55	1,400	1-7	1800	4.23	3,980
1-1	0600	3.50	1,440	3-8	1000	3.20	825
1-4	1900	4.14	3,620				

NOTE.--No gage-height record or stage-discharge relation indefinite Oct. 1 to Dec. 31, Jan. 18 to Sept. 30.

SANTA ANA RIVER BASIN

11060500 MEEKS AND DALEY CANAL NEAR COLTON, CALIF.

LOCATION.--Lat 34°04'47", long 117°18'00", in San Bernardino Grant, San Bernardino County, 1.5 mi (2.4 km) north-east of Colton.

PERIOD OF RECORD.--September 1920 to current year. Published with station Warm Creek near Colton, October 1950 to September 1961.

GAGE.--Water-stage recorder. Altitude of gage is 965 ft (294 m), from topographic map.

EXTREMES.--Period of record: Maximum daily discharge, 25 ft³/s (0.71 m³/s) Mar. 2, 1938; no flow at times in most years.

REMARKS.--Records good. All flow passing station is pumped from ground-water basin for irrigation in vicinity of Colton, Riverside, and Corona. Pumping began in 1931. Canal no longer diverts water from Warm Creek. See schematic diagram of Santa Ana River basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	13	0	5.4	0	.36	0	1.1	13	14	2.1	8.3
2	1.1	13	0	5.2	0	0	0	1.1	14	14	2.1	7.8
3	1.1	13	0	5.2	0	0	0	8.6	14	14	1.6	7.7
4	1.2	13	0	3.2	0	0	0	14	14	14	1.3	8.0
5	1.2	7.0	0	0	0	0	0	14	14	14	1.8	8.3
6	1.2	1.2	0	0	0	0	0	13	14	14	1.6	8.3
7	1.1	1.2	0	0	0	0	0	13	14	14	1.6	8.3
8	1.1	1.2	0	0	0	0	0	13	13	14	4.7	8.3
9	5.8	1.1	0	0	0	0	0	13	13	14	8.3	8.3
10	13	1.1	0	0	0	0	0	13	14	14	8.3	8.3
11	11	1.1	0	0	0	0	0	13	14	14	8.3	7.8
12	13	1.1	0	0	0	0	0	5.2	14	14	8.3	7.7
13	13	1.1	0	0	0	0	0	1.1	13	14	8.3	8.3
14	13	1.1	0	0	0	0	0	1.1	0	14	8.3	8.3
15	13	1.1	0	0	0	0	.72	1.1	0	14	8.3	8.3
16	13	6.3	0	0	0	0	1.1	1.1	0	14	8.3	8.1
17	13	12	0	0	0	0	1.3	1.1	3.2	14	8.3	8.3
18	13	3.5	0	0	0	0	1.1	1.1	14	14	8.3	8.0
19	13	0	0	0	0	0	.99	1.1	14	14	8.3	7.6
20	13	0	8.7	0	.54	0	1.1	1.6	14	14	8.3	7.6
21	13	0	13	0	.96	0	1.2	1.1	14	14	8.3	7.8
22	13	0	13	0	.96	0	1.3	1.1	14	14	8.3	8.3
23	13	0	13	0	.96	0	1.1	1.1	10	14	8.3	8.3
24	13	0	12	0	.96	0	.97	1.1	9.4	14	8.3	8.3
25	13	0	7.6	0	.96	0	1.1	1.1	14	14	8.3	8.3
26	13	0	5.3	0	.96	0	1.1	1.1	14	14	8.9	8.3
27	13	0	5.2	0	.96	0	1.1	1.1	14	14	9.5	8.3
28	13	0	5.2	0	1.1	0	1.1	1.1	14	5.2	8.7	8.3
29	13	0	5.0	0	-----	0	1.1	9.8	14	1.1	8.0	8.3
30	13	0	5.0	0	-----	0	1.1	14	14	1.3	8.2	8.3
31	13	-----	5.0	0	-----	0	-----	13	-----	1.8	8.3	-----
TOTAL	298.8	92.1	98.0	19.0	8.36	.36	17.48	176.9	354.6	387.4	209.5	244.1
MEAN	9.64	3.07	3.16	.61	.30	.012	.58	5.71	11.8	12.5	6.76	8.14
MAX	13	13	13	5.4	1.1	.36	1.3	14	14	14	9.5	8.3
MIN	1.0	0	0	0	0	0	0	1.1	0	1.1	1.3	7.6
AC-FT	593	183	194	38	17	.7	35	351	703	768	416	484

CAL YR 1973 TOTAL 1,481.31 MEAN 4.06 MAX 13 MIN 0 AC-FT 2,940
 WTR YR 1974 TOTAL 1,906.60 MEAN 5.22 MAX 14 MIN 0 AC-FT 3,780

11062000 LYTLE CREEK NEAR FONTANA, CALIF.

LOCATION.--Lat 34°12'44", long 117°27'26", in SE¼NW¼SE¼ sec.36, T.2 N., R.6 W., San Bernardino County, on right bank 75 ft (23 m) upstream from highway bridge, 0.7 mi (1.1 km) upstream from right tributary, and 8 mi (13 km) north of Fontana.

DRAINAGE AREA.--46.3 mi² (119.9 km²).

PERIOD OF RECORD.--October 1918 to current year. Combined records of Lytle Creek and diversions, October 1898 to December 1899, October 1904 to current year (published as "at mouth of canyon near Rialto" 1898-99, as "near San Bernardino" 1904-18, and as Lytle Creek and Fontana pipeline near Fontana 1919-31). Monthly discharge only for some periods published in WSP 1315-B.

GAGE.--Water-stage recorder on creek. Dual arch-culvert control since 1964; water-stage recorders and sharp-crested weirs on conduit and infiltration line. Altitude of gage is 2,380 ft (725 m), from topographic map. October 1918 to Mar. 21, 1938, at site 1 mi (1.6 km) downstream at different datum. Mar. 22, 1938, to Nov. 20, 1963, at site 75 ft (23 m) downstream at datum 4.58 ft (1.396 m).

AVERAGE DISCHARGE (Creek only).--56 years, 13.9 ft³/s (0.394 m³/s), 10,100 acre-ft/yr (12.5 hm³/yr).
(Combined creek and diversions).--71 years, 42.4 ft³/s (1.201 m³/s), 30,750 acre-ft/yr (37.9 hm³/yr).

EXTREMES (Creek only).--Current year: Maximum discharge, 266 ft³/s (7.53 m³/s) Jan. 7 (gage height, 5.30 ft or 1.615 m); no flow part of year.
Period of record: Maximum discharge, 35,900 ft³/s (1,020 m³/s) Jan. 25, 1969 (gage height, 15.0 ft or 4.57 m, from floodmark), from rating curve extended above 570 ft³/s (16.1 m³/s) on basis of slope-area measurements at gage heights 10.78 ft (3.286 m) and 15.0 ft (4.57 m); no flow at times in each year.
(Combined flow).--Current year: Maximum discharge, 285 ft³/s (8.07 m³/s) Jan. 7; minimum daily, 19 ft³/s (0.54 m³/s) Aug. 23, 24, Sept. 5, 6.
Period of record: Maximum discharge, 35,900 ft³/s (1,020 m³/s) Jan. 25, 1969; minimum daily, 4.4 ft³/s (0.12 m³/s) Oct. 4-11, 1970 (affected by change in diversions due to fire of September 1970).

REMARKS.--Records (creek only), poor; (combined creek and diversions), fair. No regulation above station. Southern California Edison Co.'s Lytle Creek conduit diverts 2.3 mi (3.7 km) upstream for power development, and Fontana Union Water Co. collects water from an infiltration line upstream for irrigation. See schematic diagram of Santa Ana River basin. For records of combined discharge of Lytle Creek and diversions, see following page.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	2.2	15	10	17	20	17	5.3	.90			
2	16	2.2	2.5	4.6	16	30	19	5.3	.82			
3	23	2.1	2.0	20	15	21	17	5.0	.66			
4	23	2.1	1.8	35	14	36	21	4.8	.62			
5	22	2.0	1.5	9.0	14	22	17	4.8	.42			
6	22	2.0	1.5	23	14	18	15	4.6	.28			
7	22	2.0	1.4	143	14	17	14	4.4	.10			
8	23	1.9	1.4	93	12	100	14	4.1	0			
9	18	1.9	1.3	27	12	45	14	4.1	0			
10	2.8	1.8	1.2	20	12	30	14	3.9	0			
11	.80	1.8	1.2	17	12	24	12	3.7	0			
12	.80	1.8	1.2	16	11	20	12	3.5	0			
13	3.8	1.8	1.1	16	11	20	10	3.3	0			
14	3.7	1.7	1.1	16	10	20	11	3.2	0			
15	3.6	1.7	1.0	17	10	20	9.8	3.2	0			
16	3.6	1.7	.98	17	10	21	9.4	3.2	0			
17	3.4	8.0	.98	21	9.2	23	9.4	3.0	0			
18	3.3	50	.80	24	8.8	23	9.1	2.8	0			
19	3.2	18	.70	25	8.4	23	8.8	2.6	0			
20	3.1	5.4	.70	29	8.0	23	8.4	2.3	0			
21	3.1	4.7	.70	33	7.4	22	7.7	2.2	0			
22	2.9	15	5.0	23	7.0	21	7.7	2.0	0			
23	2.9	7.0	2.0	21	6.7	21	7.7	1.8	0			
24	2.8	4.7	1.5	20	6.1	20	7.4	1.8	0			
25	2.7	4.0	.60	20	6.1	18	6.4	1.6	0			
26	2.7	3.3	.50	20	5.8	18	6.4	1.6	0			
27	2.6	2.8	.30	19	5.6	18	6.1	1.4	0			
28	2.5	2.4	.25	18	5.0	17	5.8	1.2	0			
29	2.4	2.1	.22	18	-----	17	5.6	1.2	0			
30	2.3	1.9	.20	17	-----	16	5.3	1.2	0			
31	2.3	-----	.20	17	-----	16	-----	.98	-----			
TOTAL	230.30	160.0	50.93	808.6	288.1	760	328.0	94.08	3.82	0	0	0
MEAN	7.43	5.33	1.64	26.1	10.3	24.5	10.9	3.03	.13	0	0	0
MAX	23	50	15	143	17	100	21	5.3	.90	0	0	0
MIN	0	1.7	.20	4.6	5.0	16	5.3	.98	0	0	0	0
AC-FT	457	317	101	1,600	571	1,510	651	187	7.6	0	0	0

CAL YR 1973 TOTAL 5,109.10 MEAN 14.0 MAX 943 MIN 0 AC-FT 10,130
WTR YR 1974 TOTAL 2,723.83 MEAN 7.46 MAX 143 MIN 0 AC-FT 5,400

PEAK DISCHARGE (BASE, 200 FT³/S).--Jan. 7 (2200) 266 ft³/s (5.30 ft).

NOTE.--No gage-height record Oct. 1 to Jan. 5.

SANTA ANA RIVER BASIN

11062000 LYTLE CREEK NEAR FONTANA, CALIF.--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF LYTLE CREEK,
SOUTHERN CALIFORNIA EDISON CO.'S LYTLE CONDUIT, AND FONTANA UNION WATER
CO.'S INFILTRATION LINE, NEAR FONTANA, CALIF., WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	31	49	34	45	42	47	33	28	22	20	20
2	29	30	33	30	45	79	49	34	28	23	21	20
3	30	31	30	45	44	91	47	34	28	22	21	21
4	30	31	30	62	43	60	45	34	28	22	22	21
5	29	30	30	36	43	51	47	32	26	22	21	19
6	29	31	31	50	43	45	45	33	27	22	21	19
7	29	30	30	166	43	51	44	32	27	22	21	20
8	30	30	29	117	41	156	44	32	26	22	21	20
9	30	30	29	61	41	82	44	32	26	23	21	21
10	30	30	28	53	40	60	44	31	26	23	21	21
11	29	30	28	40	40	53	42	31	26	21	21	21
12	30	30	28	45	40	49	42	31	25	21	21	21
13	33	30	20	45	40	49	40	33	24	21	21	21
14	33	30	26	45	39	49	41	30	24	21	21	21
15	29	30	27	46	38	49	40	30	23	22	21	20
16	33	30	27	46	38	50	39	30	23	21	21	20
17	32	36	27	50	37	52	38	30	23	21	21	20
18	32	60	28	53	37	52	38	30	23	21	22	20
19	32	37	27	54	36	52	38	30	23	22	22	20
20	32	33	26	50	37	52	37	29	23	20	23	21
21	32	33	20	52	34	51	37	29	23	20	23	20
22	32	43	31	52	36	51	37	29	23	21	22	20
23	32	35	28	50	36	51	37	29	22	21	19	21
24	32	33	27	49	35	50	36	29	23	21	19	21
25	32	32	27	49	35	48	35	29	24	21	20	21
26	32	31	26	49	35	49	35	29	22	22	20	22
27	32	31	25	48	35	48	34	28	22	22	20	22
28	32	30	26	47	33	47	34	28	22	21	20	21
29	31	30	25	47	-----	47	33	28	22	20	20	21
30	31	30	25	46	-----	46	32	29	22	20	20	21
31	31	-----	25	46	-----	46	-----	29	-----	20	20	-----
TOTAL	959	978	884	1,693	1,090	1,758	1,201	947	732	663	647	617
MEAN	30.9	32.6	28.5	54.6	38.9	56.7	40.0	30.5	24.4	21.4	20.9	20.6
MAX	33	60	49	166	46	156	49	34	28	23	23	22
MIN	29	30	25	30	33	42	32	28	22	20	19	19
AC-FT	1,900	1,940	1,750	3,350	2,160	3,490	2,380	1,880	1,450	1,320	1,280	1,220

CAL YR 1973 TOTAL 14,801 MEAN 40.6 MAX 945 MIN 17 AC-FT 29,360
WTR YR 1974 TOTAL 12,169 MEAN 33.3 MAX 166 MIN 19 AC-FT 24,140

PEAK DISCHARGE (BASE, 200 FT³/S).--Jan. 7 (2200) 285 ft³/s.

11063500 LONE PINE CREEK NEAR KEENBROOK, CALIF.

LOCATION.--Lat 34°15'59", long 117°27'47", in SE¼SE¼SW¼ sec.12, T.2 N., R.6 W., San Bernardino County, on right bank 50 ft (15 m) upstream from the Atchison, Topeka, and Santa Fe Railway Co. bridge, 150 ft (46 m) upstream from mouth, and 1.1 mi (1.8 km) north of Keenbrook.

DRAINAGE AREA.--15.1 mi² (39.1 km²).

PERIOD OF RECORD.--December 1919 to September 1938, June 1949 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 2,605.92 ft (794.284 m) above mean sea level. Prior to Mar. 2, 1938, water-stage recorder (destroyed by flood) and Mar. 2 to Sept. 30, 1938, nonrecording gage at same site at datum 0.98 ft (0.299 m) higher.

AVERAGE DISCHARGE.--43 years (1920-38, 1949-74), 1.45 ft³/s (0.0411 m³/s), 1,050 acre-ft/yr (1.29 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 135 ft³/s (3.82 m³/s) Jan. 7 (gage height, 3.48 ft or 1.061 m); minimum daily, 0.60 ft³/s (0.017 m³/s) Sept. 21.

Period of record: Maximum discharge, 6,180 ft³/s (175 m³/s) Mar. 2, 1938, on basis of slope-area measurement of maximum flow; no flow Aug. 6-8, Sept. 29, 30, 1965.

REMARKS.--Records good. No regulation or diversion above station. See schematic diagram of Santa Ana River basin.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.88	.78	.99	.90	1.4	1.4	1.2	.99	1.1	.88	.81	.64
2	.88	.79	.88	.88	1.3	1.4	1.2	.99	1.1	.88	.88	.63
3	.88	.84	.88	.88	1.2	1.2	1.2	.99	.99	.99	.84	.64
4	.88	.84	.84	.96	1.2	1.1	1.2	.99	.99	.98	1.2	.65
5	.78	.85	.80	1.1	1.2	1.1	1.3	.99	.99	.96	1.2	.66
6	.78	.78	.82	1.0	1.2	1.2	1.4	.99	.99	.99	1.2	.66
7	.78	.69	.78	.51	1.1	3.2	1.4	1.1	.99	.99	1.2	.65
8	.88	.68	.78	1.5	1.2	9.2	1.4	1.1	.98	.99	1.4	.64
9	.88	.68	.78	3.1	1.2	1.3	1.3	1.1	.93	.99	1.3	.68
10	.78	.68	.82	2.2	1.2	1.1	1.3	1.1	.92	.99	1.3	.68
11	.78	.78	.83	1.7	1.2	1.0	1.3	1.1	.97	1.0	1.2	.63
12	.78	.76	.79	1.6	1.2	.99	1.2	1.1	.88	1.0	1.2	.63
13	.78	.73	.79	1.6	1.3	.99	1.2	1.1	.88	.99	1.2	.63
14	.68	.77	.84	1.5	1.1	.99	1.2	1.1	.88	.98	1.2	.62
15	.68	.69	.88	1.4	1.1	.99	1.1	1.1	.88	.98	1.2	.61
16	.68	.69	.88	1.3	1.2	.99	1.1	1.1	.88	.96	1.2	.62
17	.78	.88	.88	1.2	1.2	1.0	1.1	1.1	.88	.96	1.2	.62
18	.72	1.1	.88	1.2	1.3	1.1	1.1	.99	.78	.97	1.2	.61
19	.74	.88	.87	1.2	1.6	1.2	1.0	.99	.78	.99	1.2	.64
20	.88	.88	.83	1.2	1.5	1.2	.99	.99	.78	.99	1.3	.61
21	.88	.88	.78	1.2	1.4	1.2	.99	.99	.78	.98	1.3	.60
22	.89	.88	.78	1.2	1.4	1.2	.99	.99	.78	.98	.92	.66
23	.89	.88	.78	1.3	1.4	1.2	1.1	.99	.88	.97	.91	.75
24	.78	.99	.78	1.3	1.3	1.2	1.1	.99	.88	.96	.86	.66
25	.78	.99	.78	1.4	1.2	1.2	1.1	.99	.88	.97	.75	.68
26	.84	.88	.78	1.3	1.2	1.2	1.1	.98	.87	.96	.75	.71
27	.78	.88	.78	1.3	1.2	1.2	1.0	.99	.86	.95	.75	.75
28	.78	.78	.83	1.3	1.3	1.2	1.0	.99	.86	.95	.75	.71
29	.72	.88	.83	1.3	-----	1.2	.99	.99	.88	.94	.66	.68
30	.68	.88	.82	1.3	-----	1.2	.99	.98	.88	.85	.65	.69
31	.78	-----	.83	1.4	-----	1.2	-----	1.1	-----	.84	.64	-----
TOTAL	24.70	24.69	25.61	114.22	35.3	45.85	34.55	31.99	27.12	29.81	32.37	19.64
MEAN	.80	.82	.83	3.68	1.26	1.48	1.15	1.03	.90	.96	1.04	.65
MAX	.89	1.1	.99	.51	1.6	9.2	1.4	1.1	1.1	1.0	1.4	.75
MIN	.68	.68	.78	.88	1.1	.99	.99	.98	.78	.84	.64	.60
AC-FT	49	49	51	227	70	91	69	63	54	59	64	39

CAL YR 1973 TOTAL 528.31 MEAN 1.45 MAX 82 MIN .68 AC-FT 1,050
WTR YR 1974 TOTAL 445.85 MEAN 1.22 MAX 51 MIN .60 AC-FT 884

PEAK DISCHARGE (BASE, 80 FT³/S).--Jan. 7 (1930) 135 ft³/s (3.48 ft).

SANTA ANA RIVER BASIN

11063510 CAJON CREEK BELOW LONE PINE CREEK, NEAR KEENBROOK, CALIF.

LOCATION.--Lat 34°15'58", long 117°27'47", in NE¼NW¼ sec.13, T.2 N., R.6 W., San Bernardino County, on right bank 25 ft (8 m) downstream from confluence with Lone Pine Creek, 1.1 mi (1.8 km) north of Keenbrook.

DRAINAGE AREA.--55.8 mi² (144.5 km²).

PERIOD OF RECORD.--October 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,600 ft (792 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 647 ft³/s (18.3 m³/s) Jan. 7 (gage height, 10.52 ft or 3.206 m); minimum daily, 2.6 ft³/s (0.074 m³/s) on several days.

Period of record: Maximum discharge, 1,780 ft³/s (50.4 m³/s) Feb. 11, 1973 (gage height, 13.50 ft or 4.115 m); minimum daily, 2.6 ft³/s (0.074 m³/s) on some days in 1971, 1974.

REMARKS.--Records poor. No regulation or diversion above station. See schematic diagram of Santa Ana River basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	3.3	9.1	3.5	8.6	10	9.0	7.2	6.5	4.7	3.0	2.6
2	3.6	3.7	7.2	3.5	8.6	45	36	7.2	6.4	4.6	3.3	3.3
3	3.6	3.9	4.8	3.5	8.6	30	15	7.1	6.3	4.6	3.3	3.5
4	3.6	3.9	4.6	3.7	8.6	9.5	10	7.0	6.2	4.6	3.2	3.5
5	3.7	3.9	4.6	5.4	8.6	9.3	9.9	7.0	6.1	4.6	3.0	3.3
6	3.7	3.9	4.6	60	8.6	9.8	9.8	6.9	6.0	4.5	2.8	3.3
7	3.7	3.9	4.3	340	8.6	51	9.6	6.8	5.9	4.5	2.8	3.5
8	3.7	3.9	4.3	121	8.6	114	9.5	6.8	5.8	4.5	3.0	3.3
9	3.7	3.9	4.3	59	8.6	32	9.4	6.7	5.7	4.5	2.6	3.3
10	3.7	3.9	4.1	41	8.6	24	9.2	6.6	5.6	4.5	2.6	3.3
11	3.7	3.9	3.7	37	8.6	18	9.1	6.6	5.7	4.4	2.6	3.3
12	3.7	4.1	3.7	33	8.6	13	9.0	7.2	5.6	4.2	2.6	3.5
13	3.7	4.6	3.5	30	8.7	12	9.0	7.8	5.5	4.1	2.6	3.7
14	3.7	4.8	3.5	27	8.8	8.0	8.9	8.4	5.4	4.0	3.0	3.7
15	3.7	5.6	3.5	24	8.9	13	8.9	8.9	5.4	4.0	2.6	3.9
16	3.7	5.6	3.5	20	9.0	18	8.9	8.0	5.3	3.9	3.0	3.9
17	3.7	6.1	3.5	30	9.0	16	8.9	7.5	5.2	3.9	3.0	3.9
18	3.7	10	3.5	21	9.1	13	8.9	7.4	5.2	3.8	2.8	4.1
19	3.7	8.0	3.5	17	9.2	13	8.8	7.4	5.1	3.5	2.8	3.7
20	3.7	7.8	3.5	15	9.3	12	8.6	7.3	5.1	3.5	3.0	3.7
21	3.7	7.2	3.5	13	9.4	11	8.5	7.2	5.0	3.5	3.0	3.7
26	3.3	7.2	3.3	9.2	9.5	9.8	7.8	6.9	4.8	3.2	3.0	3.9
27	3.3	6.9	3.2	9.0	9.5	9.4	7.7	6.9	4.8	3.0	2.8	3.9
28	3.3	6.9	3.2	8.4	9.5	9.4	7.5	6.8	4.7	3.5	2.8	3.9
29	3.3	6.6	3.3	8.8	-----	9.4	7.4	6.7	4.7	3.5	2.6	4.1
30	3.3	6.6	3.3	8.7	-----	9.4	7.3	6.7	4.7	3.5	2.8	4.6
31	3.3	-----	3.3	8.6	-----	9.0	-----	6.6	-----	3.2	2.6	-----
TOTAL	111.5	171.7	124.4	1,000.9	251.1	581.0	295.2	222.0	162.3	121.4	89.8	109.1
MEAN	3.60	5.72	4.01	32.3	8.97	18.7	9.84	7.16	5.41	3.92	2.90	3.64
MAX	3.7	10	9.1	340	9.5	114	36	8.9	6.5	4.7	3.3	4.6
MIN	3.3	3.3	3.2	3.5	8.6	8.0	7.3	6.6	4.7	3.0	2.6	2.6
AC-FT	221	341	247	1,990	498	1,150	586	440	322	241	178	216

CAL YR 1973 TOTAL 4,078.7 MEAN 11.2 MAX 467 MIN 3.2 AC-FT 8,090
 WTR YR 1974 TOTAL 3,240.4 MEAN 8.88 MAX 340 MIN 2.6 AC-FT 6,430

PEAK DISCHARGE (BASE, 150 FT³/S).--Jan. 7 (1700) 647 ft³/s (10.52 ft); Mar. 8 (0500) 237 ft³/s (9.13 ft).

11063680 DEVIL CANYON CREEK NEAR SAN BERNARDINO, CALIF.

LOCATION.--Lat 34°12'30", long 117°19'50", in Muscupiabe Grant, San Bernardino County, on left bank 0.6 mi (1.0 km) downstream from confluence of East and West Forks, and 7.5 mi (12.1 km) northwest of San Bernardino.

DRAINAGE AREA.--5.49 mi² (14.22 km²).

PERIOD OF RECORD.--November 1911 to September 1912, October 1913 to September 1914, December 1919 to current year. Monthly figures only for January 1914, published in WSP 1315-B.

GAGE.--Water-stage recorder on creek; flowmeter on diversion. Altitude of gage is 2,080 ft (634 m), from topographic map. Prior to December 1919, nonrecording gage at site 0.5 mi (0.8 km) downstream at different datum. December 1919 to July 1969, at site 0.4 mi (0.6 km) downstream at different datum. July 1969 to September 1972, present gage used as supplementary gage. Oct. 1, 1973, to Feb. 25, 1974, supplementary gage at site 0.5 mi (0.8 km) downstream at different datum.

AVERAGE DISCHARGE (Creek only).--55 years (1913-14, 1920-74), 1.90 ft³/s (0.0538 m³/s), 1,380 acre-ft/yr (1.70 hm³/yr).

(Combined creek and diversion).--41 years (1913-14, 1934-74), 3.56 ft³/s (0.101 m³/s), 2,580 acre-ft/yr (3.18 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 52 ft³/s (1.47 m³/s) Jan. 7 (gage height, unknown); minimum daily, 0.28 ft³/s (0.008 m³/s) Oct. 7.

Period of record (1913-14, 1919 to current year): Maximum discharge, 3,720 ft³/s (105 m³/s) Jan. 25, 1969 (gage height, 5.40 ft or 1.646 m, site and datum then in use), on basis of slope-area measurement of maximum flow; no flow at times in most years.

REMARKS.--Records poor. No regulation above station. City of San Bernardino diverts above station for municipal supply. See schematic diagram of Santa Ana River basin.

COOPERATION.--Records of diversion furnished by city of San Bernardino.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	.40	8.0	1.8	4.8	3.6	2.8	2.1	1.7	1.4	1.6	.98
2	.43	.41	5.8	2.1	4.6	4.7	5.0	1.9	1.7	1.4	1.4	.94
3	.37	.43	4.2	2.6	4.5	4.2	3.7	1.9	1.7	1.4	1.3	.90
4	.32	.44	3.0	3.2	4.3	3.6	3.3	1.8	1.7	1.4	1.3	.92
5	.30	.46	2.6	5.2	4.2	2.9	3.1	1.8	1.7	1.4	1.3	.94
6	.29	.47	2.3	9.0	4.2	2.3	3.1	1.8	1.7	1.4	1.3	.92
7	.28	.49	2.0	39	4.1	5.8	3.3	1.8	1.6	1.3	1.3	.94
8	.44	.50	1.9	28	4.0	15	2.6	1.8	1.8	1.4	1.2	.94
9	.35	.51	1.8	19	4.0	5.7	2.1	1.8	1.8	1.4	1.3	.94
10	.32	.52	1.7	15	3.9	4.6	1.9	1.7	1.6	1.4	1.2	.73
11	.31	.53	1.6	12	3.8	4.5	1.9	1.6	1.5	1.4	1.2	.54
12	.30	.54	1.5	10	3.8	4.8	2.3	1.6	1.3	1.4	1.2	.78
13	.30	.55	1.5	8.4	3.7	4.7	2.8	1.7	1.1	1.4	1.2	.96
14	.30	.56	1.4	7.4	3.7	4.9	3.0	1.7	1.2	1.4	1.2	1.0
15	.30	.57	1.4	6.6	3.6	4.3	3.0	1.8	1.5	1.4	1.2	1.0
16	.30	.58	1.3	5.8	3.6	4.4	2.7	1.8	1.5	1.3	1.2	.85
17	.30	.60	1.3	7.0	3.5	4.1	2.5	1.7	1.3	1.5	1.2	.76
18	.31	20	1.3	8.9	3.5	4.3	2.5	1.8	.99	1.5	1.2	.76
19	.31	7.0	1.3	12	3.5	4.3	2.3	1.9	.98	1.5	1.2	.76
20	.31	3.0	1.2	21	3.5	4.2	2.1	1.8	1.0	1.5	1.2	.73
21	.31	2.2	1.2	22	3.5	3.3	2.2	1.8	.86	1.5	1.2	1.1
22	.32	1.9	1.2	13	3.5	3.0	2.3	1.9	1.5	1.5	1.2	1.1
23	.32	1.6	1.2	10	3.5	3.0	2.1	1.9	1.5	1.4	1.1	.97
24	.33	1.4	1.2	8.5	3.5	3.0	2.2	1.9	1.4	1.4	1.0	.82
25	.34	1.3	1.2	7.2	3.5	3.3	2.0	1.9	1.3	1.5	1.0	.82
26	.34	1.3	1.3	6.6	3.4	3.1	2.1	2.1	1.3	1.5	1.1	.82
27	.35	1.2	1.3	6.2	3.3	4.0	2.1	1.7	1.3	1.5	1.1	.78
28	.36	1.2	1.3	5.6	2.8	3.2	1.9	1.8	1.3	1.5	1.0	.76
29	.37	1.2	1.4	5.6	-----	2.6	1.9	1.8	1.4	1.4	1.0	.76
30	.38	1.2	1.4	5.2	-----	2.8	2.1	1.7	1.4	1.3	.82	.79
31	.39	-----	1.6	5.0	-----	2.8	-----	1.8	-----	1.3	.77	-----
TOTAL	10.45	53.06	61.4	318.9	105.8	131.0	76.9	56.1	42.63	44.0	36.49	26.01
MEAN	.34	1.77	1.98	10.3	3.78	4.23	2.56	1.81	1.42	1.42	1.18	.87
MAX	.50	20	8.0	39	4.8	15	5.0	2.1	1.8	1.5	1.6	1.1
MIN	.28	.40	1.2	1.8	2.8	2.3	1.9	1.6	.86	1.3	.77	.54
AC-FT	21	105	122	633	210	260	153	111	85	87	72	52
(a)	70	135	151	664	236	324	262	237	185	150	126	114
CAL YR 1973	TOTAL	1,026.59	MEAN	2.81	MAX	63	MIN	.28	AC-FT	2,040	AC-FT	a 2,590
WTR YR 1974	TOTAL	962.74	MEAN	2.64	MAX	39	MIN	.28	AC-FT	1,910	AC-FT	a 2,650

PEAK DISCHARGE (BASE, 25 FT³/S)
 DATE TIME G.H. DISCHARGE DATE TIME G.H. DISCHARGE
 11-17 unknown -- unknown 1-20 unknown -- -- unknown
 1-7 unknown -- 52 3-8 0500 3.64 45

a Combined discharge, in acre-feet, of Devil Canyon Creek and city of San Bernardino diversion.
 NOTE.--No gage-height record Oct. 1 to Feb. 26.

SANTA ANA RIVER BASIN

11065000 LYTLE CREEK AT COLTON, CALIF.

LOCATION.--Lat 34°04'44", long 117°18'17", in San Bernardino Grant, San Bernardino County, on right bank 400 ft (122 m) downstream from Colton Avenue, 1,930 ft (588 m) upstream from outlet end of channel, and 1.3 mi (2.1 km) northeast of Colton.

DRAINAGE AREA.--172 mi² (445 km²).

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 974.67 ft (297.079 m) above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE (Natural flow).--17 years, 6.65 ft³/s (0.188 m³/s), 4,820 acre-ft/yr (5.94 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 814 ft³/s (23.1 m³/s) Jan. 8 (gage height, 2.78 ft or 0.847 m); no flow most of year.

Period of record: Maximum discharge, 16,800 ft³/s (476 m³/s) Jan. 25, 1969 (gage height, 13.6 ft or 4.15 m, from floodmarks), from rating curve extended above 4,200 ft³/s (119 m³/s) on basis of discharge for design flood at gage height 21.4 ft (6.52 m); no flow most of each year.

REMARKS.--Records good except those below 1 ft³/s (0.028 m³/s), which are poor. Flow partly regulated by Lytle Creek spreading grounds 3.2 mi (5.1 km) upstream. Diversions above station for irrigation, power development, domestic use, and ground-water replenishment. California Water Project released 3,300 acre-ft (4.07 hm³) to channel above gage in 1973 water year. This water is not included in the average discharge computations. See schematic diagram of Santa Ana River basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.02	6.1	0	0	1.5					
2		0	0	0	0	16	15					
3		0	0	0	0	3.3	0					
4		0	0	20	0	0	0					
5		0	0	14	0	0	0					
6		0	0	6.0	0	0	0					
7		0	0	208	0	1.7	0					
8		0	0	146	0	23	0					
9		0	0	.03	0	0	0					
10		0	0	0	0	0	0					
11		0	0	0	0	0	0					
12		0	0	0	0	0	0					
13		0	0	0	0	0	0					
14		0	0	0	0	0	0					
15		0	0	0	0	0	0					
16		0	0	0	0	0	0					
17		.29	0	.18	0	0	0					
18		7.0	0	0	0	0	0					
19		0	0	0	0	0	0					
20		0	0	.32	0	0	0					
21		0	0	0	0	0	0					
22		6.5	0	0	0	0	0					
23		.28	0	0	0	0	0					
24		.12	0	0	0	0	0					
25		0	0	0	0	0	0					
26		0	0	0	0	0	0					
27		0	0	0	0	0	0					
28		0	0	0	.79	0	0					
29		0	0	0	-----	0	0					
30		0	0	0	-----	0	0					
31		-----	0	0	-----	0	-----					
TOTAL	0	14.19	.02	400.63	.79	44.0	16.5	0	0	0	0	0
MEAN	0	.47	.0006	12.9	.028	1.42	.55	0	0	0	0	0
MAX	0	7.0	.02	208	.79	23	15	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	28	.04	795	1.6	87	33	0	0	0	0	0

CAL YR 1973 TOTAL 1,313.27 MEAN 3.60 MAX 1,020 MIN 0 AC-FT 2,600
 WTR YR 1974 TOTAL 476.13 MEAN 1.30 MAX 208 MIN 0 AC-FT 944

11066440 SANTA ANA RIVER AT MISSION BOULEVARD, AT RIVERSIDE, CALIF.

LOCATION.--Lat 33°59'28", long 117°23'36", in Jurupa Grant, Riverside County, near right bank on downstream end of pier of Mission Boulevard Bridge between Rubidoux and Riverside.

DRAINAGE AREA.--810 mi² (2,098 km²).

PERIOD OF RECORD.--February 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 758.52 ft (231.197 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 3,200 ft³/s (90.6 m³/s) Jan. 7 gage height, (10.50 ft or 3.200 m); no flow most of year.

Period of record: Maximum discharge, 7,500 ft³/s (212.4 m³/s) Feb. 11, 1973 (gage height, 11.30 ft or 3.444 m), from rating curve extended above 5,400 ft³/s (153 m³/s); no flow most of each year.

REMARKS.--Records fair. This is a project station the purpose of which is to record surface flow entering Riverside narrows from upper Santa Ana River drainage. See schematic diagram of Santa Ana River basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0		10		0	0				0	
2		0		2.7		91	6.6				0	
3		0		0		40	0				0	
4		0		65		0	0				.16	
5		0		175		0	0				1.0	
6		0		0		0	0				.31	
7		0		792		13	0				.10	
8		0		792		301	0				.02	
9		0		.20		0	0				.02	
10		0		0		0	0				.02	
11		0		0		0	0				.01	
12		0		0		0	0				0	
13		0		0		0	0				0	
14		0		0		0	0				.02	
15		0		0		0	0				.02	
16		0		0		0	0				0	
17		0		0		0	0				0	
18		0		0		0	0				0	
19		3.1		0		0	0				0	
20		0		0		0	0				0	
21		0		0		0	0				0	
22		0		0		0	0				0	
23		8.7		0		0	0				0	
24		0		0		0	0				0	
25		0		0		0	0				0	
26		0		0		0	0				0	
27		0		0		0	0				0	
28		0		0		0	0				0	
29		0		0	-----	0	0				0	
30		0		0	-----	0	0				0	
31		-----		0	-----	0	-----		-----		0	-----
TOTAL	0	11.8	0	1,836.90	0	445	6.6	0	0	0	1.68	0
MEAN	0	.39	0	59.3	0	14.4	.22	0	0	0	.054	0
MAX	0	8.7	0	792	0	301	6.6	0	0	0	1.0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	23	0	3,640	0	983	13	0	0	0	3.3	0
CAL YR 1973	TOTAL	5,552.91	MEAN	15.2	MAX	2,300	MIN	0	AC-FT	11,010		
WTR YR 1974	TOTAL	2,301.98	MEAN	6.31	MAX	792	MIN	0	AC-FT	4,570		

PEAK DISCHARGE (BASE, 500 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
1-5	0800	9.95	836	3-8	1500	10.25	1,210
1-7	2100	10.50	3,200				

SANTA ANA RIVER BASIN

11066460 SANTA ANA RIVER AT MWD CROSSING, NEAR ARLINGTON, CALIF.

LOCATION.--Lat 33°58'04", long 117°26'46", in NE¼NE¼SW¼ sec.30, T.2 S., R.5 W., Riverside County, on left bank 300 ft (91 m) upstream from MWD crossing, 0.7 mi (1.1 km) downstream from Union Pacific Railroad bridge, 1.2 mi (1.9 km) upstream from bridge on Van Buren Boulevard, and 3.3 mi (5.3 km) north of Arlington.

DRAINAGE AREA.--854 mi² (2,112 km²).

PERIOD OF RECORD.--March 1970 to current year.

GAGE.--Water-stage recorder and concrete low-flow control. Altitude of gage is 685 ft (209 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 3,300 ft³/s (93.5 m³/s) Jan. 4 (gage height, 10.30 ft or 3.139 m), from rating extended above 600 ft³/s (17.0 m³/s) by flood routing; minimum daily, 17 ft³/s (0.48 m³/s) Sept. 9, 10.

Period of record: Maximum discharge, 6,950 ft³/s (197 m³/s) Feb. 11, 1973 (gage height, 11.21 ft or 3.417 m), from rating extended above 600 ft³/s (17.0 m³/s) by flood routing; minimum daily, 16 ft³/s (0.45 m³/s) Aug. 18, 19, 1973.

Maximum discharge since at least 1927, 100,000 ft³/s (2,830 m³/s) Mar. 2, 1938, on basis of slope-area measurement at site 1.2 mi (1.9 km) downstream.

Flood of Jan. 22, 1862, 320,000 ft³/s (9,060 m³/s), by slope-conveyance measurement at site 8.1 mi (13.0 km) upstream. Stage at that site was 5 ft (1.5 m) higher than Mar. 2, 1938.

REMARKS.--Records good below 100 ft³/s (2.83 m³/s) and poor above. Flow partly regulated by Big Bear Lake (see sta 11049000). Natural streamflow affected by ground-water withdrawals, diversions for irrigation, and return flows from irrigated areas. The records at this station are equivalent to those collected at 11066500 Santa Ana River at Riverside Narrows, near Arlington minus the flow at 11066480 Riverside Water Quality Control Plant at Riverside Narrows, near Arlington. See schematic diagram of Santa Ana River basin. Records of chemical analyses for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	20	27	39	37	38	36	27	23	21	19	18
2	21	20	23	28	34	129	77	27	23	20	18	19
3	20	20	22	25	31	49	37	26	24	20	18	18
4	19	21	22	663	31	35	36	27	25	20	18	18
5	21	21	22	476	31	28	34	28	24	20	18	18
6	21	20	22	71	30	31	30	28	24	20	20	18
7	22	21	23	999	29	44	29	29	24	20	18	18
8	21	22	22	900	31	421	27	29	24	20	18	18
9	22	23	21	68	32	46	27	29	24	20	18	17
10	21	22	22	61	32	36	27	28	23	20	18	17
11	21	23	23	64	32	32	26	28	23	20	19	18
12	21	22	22	51	33	32	27	27	22	20	18	18
13	21	22	22	48	33	31	26	26	21	20	19	18
14	21	23	23	49	42	32	24	26	20	20	19	18
15	21	22	23	40	35	33	26	27	20	20	18	18
16	21	21	23	38	34	33	26	28	20	19	18	18
17	19	27	23	40	36	31	27	28	21	19	18	18
18	19	90	23	35	34	32	26	26	22	19	18	18
19	14	43	23	31	34	31	26	26	21	19	18	18
20	20	32	24	31	32	29	26	26	21	19	18	19
21	20	32	25	26	31	29	26	27	21	19	18	19
22	20	33	24	24	32	30	26	26	22	19	18	18
23	21	79	24	24	34	30	26	26	21	19	19	18
24	21	34	24	24	30	31	26	25	21	19	18	18
25	21	32	24	27	29	32	27	26	21	18	18	18
26	21	29	24	30	30	32	27	26	20	18	18	18
27	20	23	24	32	30	33	26	26	20	18	18	18
28	20	23	28	34	44	34	25	27	20	18	18	18
29	22	23	24	33	-----	42	26	28	19	18	18	18
30	19	23	24	33	-----	43	27	28	20	19	18	18
31	19	-----	23	31	-----	43	-----	26	-----	19	19	-----
TOTAL	634	866	723	4,075	923	1,552	882	837	654	600	566	541
MEAN	20.5	28.9	23.3	131	33.0	50.1	29.4	27.0	21.8	19.4	18.3	18.0
MAX	22	90	28	999	44	421	77	29	25	21	20	19
MIN	19	20	21	24	29	28	24	25	19	18	18	17
AC-FT	1,260	1,720	1,430	8,080	1,830	3,080	1,750	1,660	1,300	1,190	1,120	1,070

CAL YR 1973 TOTAL 15,821 MEAN 43.3 MAX 2,520 MIN 16 AC-FT 31,380
 WTR YR 1974 TOTAL 12,853 MEAN 35.2 MAX 999 MIN 17 AC-FT 25,490

PEAK DISCHARGE (BASE, 500 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
1-4	2130	10.30	3,300	3-2	1215	8.85	538
1-7	unknown	10.20	3,000				

11066480 RIVERSIDE WATER QUALITY CONTROL PLANT AT RIVERSIDE NARROWS, NEAR ARLINGTON, CALIF.

LOCATION.--Lat 33°57'53", long 117°27'26", in SE¼NE¼SE¼ sec.25, T.2 S., R.6 W., Riverside County, at effluent end of chlorine contact chambers, 0.4 mi (0.6 km) upstream from Van Buren Boulevard, and 3.1 mi (5.0 km) northwest of Arlington.

PERIOD OF RECORD.--October 1947 to current year. Prior to May 25, 1967, published as "Sheehan ditch."

GAGE.--Water-stage recorders and concrete controls for plants Nos. 1 and 2. Altitude of gage is 690 ft (210 m), from topographic map.

EXTREMES.--Period of record: Maximum daily discharge, 32 ft³/s (0.91 m³/s) Apr. 6, 1969; minimum daily, 17 ft³/s (0.48 m³/s) May 11, June 8, 1969.

REMARKS.--Records good. Discharge reported herein is total effluent from city of Riverside's Water Quality Control Plants Nos. 1 and 2, released to river 1.0 mi (1.6 km) downstream from Santa Ana River at MWD crossing (see sta 11066460). Records of chemical analyses for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	28	24	21	26	27	27	28	27	28	29	24
2	27	28	25	25	25	27	28	28	27	27	30	26
3	27	26	24	25	23	25	28	28	29	27	27	28
4	27	25	27	28	27	27	27	26	29	27	26	29
5	28	28	26	26	26	27	27	25	30	29	30	28
6	26	27	27	24	26	27	26	28	29	27	29	29
7	25	27	26	31	26	26	25	28	29	26	29	27
8	28	28	26	30	26	28	28	28	29	29	29	26
9	28	28	23	27	25	26	26	30	27	29	28	29
10	27	26	26	27	23	25	28	30	30	28	27	29
11	27	26	26	27	26	28	28	29	29	28	26	29
12	27	28	26	26	26	27	27	28	30	28	29	29
13	26	28	26	26	26	27	26	30	31	26	29	29
14	26	27	26	26	26	27	23	29	31	25	28	27
15	28	27	26	27	26	27	27	30	29	29	29	26
16	28	27	25	27	27	25	26	30	28	28	29	29
17	27	26	27	27	23	24	26	30	31	27	27	29
18	29	28	26	27	27	26	27	28	31	27	26	29
19	28	28	26	25	26	29	27	27	30	28	29	29
20	26	27	26	25	26	26	25	30	29	27	28	29
21	24	27	26	27	26	27	25	27	30	24	28	27
22	24	23	24	26	26	27	28	28	28	27	28	27
23	28	24	23	26	25	26	27	28	26	27	28	30
24	27	24	24	27	24	25	28	30	29	27	27	29
25	27	25	21	26	28	27	29	27	29	27	26	29
26	27	27	23	26	26	28	27	25	29	28	29	28
27	26	26	24	25	26	27	26	27	28	25	28	29
28	26	26	24	26	26	27	25	28	28	25	28	27
29	28	26	23	26	-----	27	28	27	27	28	29	26
30	27	26	22	26	-----	26	28	29	25	29	28	29
31	27	-----	25	27	-----	24	-----	29	-----	27	26	-----
TOTAL	836	797	777	815	719	822	803	875	864	844	869	841
MEAN	27.0	26.6	25.1	26.3	25.7	26.5	26.8	28.2	28.8	27.2	28.0	28.0
MAX	28	28	28	31	28	29	29	30	31	29	30	30
MIN	24	23	21	21	23	24	23	25	25	24	26	24
AC-FT	1,660	1,580	1,540	1,620	1,430	1,630	1,590	1,740	1,710	1,670	1,720	1,670

CAL YR 1973 TOTAL 9,699 MEAN 26.6 MAX 30 MIN 21 AC-FT 19,240
 WTR YR 1974 TOTAL 9,862 MEAN 27.0 MAX 31 MIN 21 AC-FT 19,560

11067890 SANTA ANA RIVER AT PRADO PARK, NEAR CORONA, CALIF.

LOCATION.--Lat 33°55'42", long 117°35'44", in Jurupa Grant, Riverside County, in Prado Park on right bank 0.4 mi (0.6 km) upstream from Auburndale Bridge, and 4.1 mi (6.6 km) northwest of Corona.

DRAINAGE AREA.--1,010 mi² (2,616 km²).

PERIOD OF RECORD.--March 1971 to current year. Records May 1930 to November 1966 (irrigation seasons only), October 1966 to September 1968 at site 0.4 mi (0.6 km) downstream (at Auburndale Bridge, sta 11068000), equivalent if diversion to Durkee ditch added.

GAGE.--Water-stage recorder. Altitude of gage is 560 ft (171 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 2,600 ft³/s (73.6 m³/s) Jan. 8 (gage height, 5.91 ft or 1.801 m, from floodmarks); minimum daily, 17 ft³/s (0.48 m³/s) May 27.

Period of record: Maximum discharge, about 5,400 ft³/s (153 m³/s) Feb. 11, 1973, by flood routing; minimum daily, 10 ft³/s (0.28 m³/s) Aug. 7, Sept. 23, 1971.

REMARKS.--Records good below 100 ft³/s (2.83 m³/s) and poor above. Flow partly regulated by Big Bear Lake (see sta 11049000). Natural streamflow affected by ground-water withdrawals, diversions for irrigation, and return flows from irrigated areas. See schematic diagram of Santa Ana River basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	40	50	58	71	79	58	27	27	25	29	20
2	35	44	53	52	67	212	100	37	29	27	28	18
3	38	43	51	50	59	144	56	37	30	27	27	20
4	36	42	51	259	63	81	54	41	31	25	29	26
5	37	44	49	856	66	69	54	46	32	24	25	26
6	38	44	49	260	61	67	52	54	36	25	28	26
7	36	45	48	592	59	78	47	57	45	24	26	26
8	41	48	47	1,610	58	487	46	56	45	26	27	26
9	33	48	42	251	57	138	46	54	38	27	26	25
10	38	49	44	200	57	70	45	49	38	28	26	25
11	35	49	46	140	60	75	45	47	38	29	25	24
12	35	47	48	120	61	77	47	43	36	28	24	24
13	32	48	52	110	60	80	44	41	33	26	26	24
14	31	44	55	100	71	79	39	43	28	27	25	24
15	34	42	50	96	65	78	40	47	28	27	26	24
16	36	42	49	90	62	73	40	42	26	24	25	24
17	37	51	50	85	65	68	35	38	30	24	23	24
18	38	153	51	80	62	67	37	37	33	24	20	25
19	38	92	45	75	65	67	40	36	33	24	22	26
20	37	56	46	73	63	66	40	37	34	23	25	26
21	43	57	47	70	60	62	33	37	34	21	25	24
22	41	55	61	69	61	63	27	38	34	21	26	21
23	45	133	53	67	62	62	27	39	31	26	29	21
24	45	68	46	68	52	61	29	38	30	26	29	22
25	45	60	42	68	51	62	29	37	29	30	26	20
26	44	58	40	68	49	62	22	27	26	28	26	19
27	41	52	41	66	48	65	19	17	22	21	27	21
28	36	53	43	69	56	59	19	24	28	23	27	19
29	41	54	45	69	-----	68	19	29	22	28	26	22
30	38	50	47	70	-----	65	21	28	22	31	26	20
31	38	-----	48	68	-----	65	-----	27	-----	30	26	-----
TOTAL	1,172	1,711	1,489	5,909	1,691	2,849	1,210	1,210	948	799	805	692
MEAN	37.8	57.0	48.0	191	60.4	91.9	40.3	39.0	31.6	25.8	26.0	23.1
MAX	45	153	61	1,610	71	487	100	57	45	31	29	26
MIN	30	40	40	50	48	59	19	17	22	21	20	18
AC-FT	2,320	3,390	2,950	11,720	3,350	5,650	2,400	2,400	1,880	1,580	1,600	1,370

CAL YR 1973 TOTAL 25,006 MEAN 68.5 MAX 2,100 MIN 19 AC-FT 49,600
WTR YR 1974 TOTAL 20,485 MEAN 56.1 MAX 1,610 MIN 17 AC-FT 40,630

PEAK DISCHARGE (BASE, 500 FT³/S)
DATE TIME G.H. DISCHARGE DATE TIME G.H. DISCHARGE
1-5 0200 5.63 1,860 3-2 1515 3.55 608
1-8 1130 5.91 2,600 3-8 1530 4.31 1,040

11069000 LAKE HEMET NEAR IDYLLWILD, CALIF.

LOCATION.--Lat 33°39'56", long 116°42'19", in SE¼SW¼NE¼ sec.7, T.6 S., R.3 E., Riverside County, on upstream face near right end of dam on South Fork San Jacinto River, 5 mi (8 km) southeast of Idyllwild, and 6.5 mi (10.5 km) upstream from mouth.

DRAINAGE AREA.--65.6 mi² (169.9 km²).

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Nonrecording gage read once daily. Datum of gage is 4,201.5 ft (1,280.6 m) above mean sea level (levels by Lake Hemet Municipal Water District).

EXTREMES.--Current year: Maximum contents observed, 8,080 acre-ft (9.96 hm³) May 18-20 (elevation, 4,322.33 ft or 1,317.446 m); minimum, 6,570 acre-ft (8.10 hm³) Sept. 30 (elevation, 4,316.83 ft or 1,315.770 m).

Period of record: Maximum contents, 13,879 acre-ft (17.1 hm³) Feb. 25, 1969 (elevation, 4,337.58 ft or 1,322.094 m); minimum, 264 acre-ft (326 m³) Nov. 19, 1962, Nov. 19, 1963 (elevation, 4,266.9 ft or 1,300.55 m).

REMARKS.--Lake is formed by single-arch dam. Dam was completed to a height of 110 ft (33.5 m) in 1893; raised to 122.5 ft (37.34 m) in 1895, and to 135 ft (41.1 m) in 1923. Capacity table is dated February 1932 (furnished by Lake Hemet Municipal Water District). Lowest sluice gate silted, elevation, 4,222.6 ft (1,287.05 m). Capacity below spillway level, elevation, 4,333.0 ft (1,320.70 m), 11,882 acre-ft (14.7 hm³). Water is released from lake to South Fork San Jacinto River for domestic use and irrigation in the Hemet-San Jacinto Valley. See schematic diagram of Santa Ana River basin.

COOPERATION.--Elevations furnished by Lake Hemet Municipal Water District.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet) ^a	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	4,319.92	7,400	--
Oct. 31.....	4,318.67	7,060	-340
Nov. 30.....	4,318.33	6,970	-90
Dec. 31.....	4,318.58	7,030	+60
CAL YR 1973.....	--	--	+1,290
Jan. 31.....	4,320.17	7,460	+430
Feb. 28.....	4,320.50	7,560	+100
Mar. 31.....	4,321.58	7,860	+300
Apr. 30.....	4,322.25	8,060	+200
May 31.....	4,322.17	8,040	-20
June 30.....	4,320.92	7,670	-370
July 31.....	4,319.50	7,280	-390
Aug. 31.....	4,318.17	6,920	-360
Sept. 30.....	4,316.83	6,570	-350
WTR YR 1974.....	--	--	-830

^a Elevation at 0800.

11069500 SAN JACINTO RIVER NEAR SAN JACINTO, CALIF.

LOCATION.--Lat 33°44'10", long 116°49'26", in NE¼NE¼SE¼ sec.13, T.5 S., R.1 E., Riverside County, on right bank 350 ft (107 m) upstream from bridge on State Highway 74, 1 mi (2 km) downstream from North Fork, and 8.3 mi (13.4 km) southeast of San Jacinto.

DRAINAGE AREA.--141 mi² (365 km²).

PERIOD OF RECORD.--October 1920 to February 1927, March 1927 to current year. Records since Oct. 1, 1969, equivalent to prior records if lower diversion is deducted from flow past station. Combined records of river and diversions, October 1948 to current year. Monthly discharge only for October 1920 and July to September 1926, published in WSP 1315-B.

GAGE.--Water-stage recorder on river; water-stage recorder on upper canal. Datum of gage is 1,982.75 ft (604.342 m) above mean sea level (Corps of Engineers bench mark). See WSP 1735 for history of changes prior to Jan. 23, 1948. Prior to Oct. 1, 1969, at site 350 ft (107 m) downstream at same datum.

AVERAGE DISCHARGE (River only).--48 years (1920-26, 1927-69), 18.0 ft³/s (0.510 m³/s), 13,040 acre-ft/yr (16.1 hm³/yr); 5 years (1969-74), 5.54 ft³/s (0.157 m³/s), 4,010 acre-ft/yr (4.94 hm³/yr).
(Combined river and diversions).--26 years (1948-74), 18.4 ft³/s (0.521 m³/s), 13,330 acre-ft/yr (16.4 hm³/yr).

EXTREMES (River only).--Current year: Maximum discharge, 255 ft³/s (7.22 m³/s) Apr. 2 (gage height, 10.72 ft or 3.267 m); no flow many days.

Period of record: Maximum discharge, 45,000 ft³/s (1,270 m³/s) Feb. 16, 1927, on basis of slope-area measurement of maximum flow; no flow for several months in each year.

(Combined flow).--Current year: Maximum discharge, 260 ft³/s (7.36 m³/s) Apr. 2; minimum daily, 0.01 ft³/s (<0.001 m³/s) Dec. 31.

Period of record: Maximum discharge, 7,420 ft³/s (210 m³/s) Jan. 25, 1969; no flow at times in 1951, 1952, 1957.

REMARKS.--Records fair. Flow partly regulated by Lake Hemet (see sta 11069000). Lake Hemet Municipal Water District's upper canal diverts 4.0 mi (6.4 km) above station. Fairview Land and Water Co.'s pipeline diverted water above station for domestic use until Dec. 31, 1972. Diversion above station began prior to 1920. Since relocation of station above lower diversion on Oct. 1, 1969, the records of lower diversion are available at Lake Hemet Municipal Water District. See schematic diagram of Santa Ana River basin. Combined records are equivalent for period of record. For records of combined daily discharge of San Jacinto River and diversion, see following page.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.19	.09	6.6	1.0	8.4	1.9	.07	0		
2		0	2.8	.06	6.2	6.2	87	2.2	.06	0		
3		0	2.0	.01	5.9	2.6	49	2.2	.05	0		
4		0	.57	.06	5.3	2.5	26	2.4	.04	0		
5		0	.30	2.0	4.5	2.4	20	2.5	.03	0		
6		0	.21	.73	4.2	2.3	16	2.5	.02	0		
7		0	.17	11	4.1	9.4	13	2.3	0	0		
8		0	.17	34	3.8	44	11	2.0	0	0		
9		0	.17	12	3.7	29	9.4	1.8	0	0		
10		0	.15	9.1	3.5	22	9.7	1.3	0	0		
11		0	.17	6.7	3.4	19	8.9	1.5	0	0		
12		0	.19	5.4	3.2	16	7.3	1.6	0	0		
13		0	.24	7.3	3.1	14	6.1	1.6	0	0		
14		0	.24	7.9	3.0	14	5.4	1.5	0	0		
15		0	.27	7.3	2.9	13	5.0	1.4	0	0		
16		0	.24	8.2	2.8	12	4.4	1.5	0	0		
17		0	.21	17	2.7	12	4.2	1.7	0	0		
18		1.1	.21	29	2.6	11	4.0	1.8	0	0		
19		1.5	.21	21	2.5	10	4.2	1.3	0	0		
20		4.0	.27	21	1.7	10	4.2	1.4	0	0		
21		2.8	.19	40	.90	10	3.6	1.8	0	0		
22		1.5	.30	28	1.0	9.6	3.0	1.5	0	0		
23		3.6	.24	20	1.0	9.2	2.6	.15	0	0		
24		2.6	.21	15	.90	8.9	2.8	.14	0	.30		
25		2.4	.15	12	1.3	8.7	2.8	.13	0	.13		
26		2.0	.09	10	2.8	8.5	2.8	.12	0	0		
27		1.5	.08	9.2	1.4	8.4	2.6	.11	0	0		
28		.73	.07	8.4	2.0	8.0	2.2	.11	0	0		
29		.13	.04	8.0	-----	8.8	2.2	.10	0	0		
30		.09	.02	7.6	-----	8.6	2.1	.08	0	0		
31		-----	0	7.1	-----	8.4	-----	.07	-----	0		-----
TOTAL	0	23.95	10.37	365.14	87.00	349.5	329.9	40.71	.27	.43	0	0
MEAN	0	.80	.33	11.8	3.11	11.3	11.0	1.31	.009	.014	0	0
MAX	0	4.0	2.8	40	6.6	44	87	2.5	.07	.30	0	0
MIN	0	0	0	.01	.90	1.0	2.1	.07	0	0	0	0
AC-FT	0	48	21	724	173	693	654	81	.5	.9	0	0

CAL YR 1973 TOTAL 6,386.95 MEAN 17.5 MAX 132 MIN 0 AC-FT 12,670
WTR YR 1974 TOTAL 1,207.27 MEAN 3.31 MAX 87 MIN 0 AC-FT 2,390

PEAK DISCHARGE (BASE, 100 FT³/S).--Mar. 8 (0100) 148 ft³/s (gage height unknown); Apr. 2 (0900) 255 ft³/s (10.72 ft).

NOTE.--No gage-height record Jan. 21 to Apr. 2. May 12 to June 4.

11069500 SAN JACINTO RIVER NEAR SAN JACINTO, CALIF.--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF SAN JACINTO RIVER AND LAKE HEMET
WATER CO.'S UPPER CANAL, NEAR SAN JACINTO, CALIF., WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	4.8	.65	1.9	6.6	5.6	13	4.9	3.8	3.8	4.2	3.6
2	4.6	4.8	3.6	1.7	6.2	13	92	5.2	3.9	3.8	4.2	3.7
3	4.7	5.0	2.9	.64	5.9	9.0	55	5.2	4.0	3.9	4.3	3.8
4	4.8	5.0	.96	.93	5.6	8.0	34	5.5	4.0	3.8	5.4	4.1
5	4.7	5.0	.83	4.4	5.3	7.9	26	5.8	4.2	3.8	4.2	4.0
6	5.1	5.0	.54	2.3	5.0	7.6	21	5.7	4.2	3.8	4.0	3.7
7	5.1	5.0	.17	12	4.8	15	18	5.2	4.6	3.9	3.5	3.7
8	5.3	4.8	.17	41	4.6	50	17	3.6	4.4	4.1	4.0	3.5
9	5.7	4.8	.17	20	4.4	35	18	4.0	4.0	4.4	3.9	3.5
10	5.7	4.8	.15	13	4.2	28	18	3.9	3.8	4.6	3.8	3.5
11	5.1	4.8	.17	9.6	4.1	25	16	3.9	3.7	4.8	3.7	3.6
12	5.0	4.8	.19	7.6	3.9	22	13	3.8	3.6	4.7	3.7	3.7
13	4.7	5.8	.24	9.5	3.8	20	12	3.8	3.7	4.7	3.8	3.8
14	4.4	5.2	.24	10	3.7	20	11	3.7	3.6	4.9	3.8	3.8
15	4.2	5.4	.27	9.5	3.6	19	10	3.7	3.2	4.5	3.8	3.6
16	4.0	5.4	.24	10	3.5	17	9.5	3.7	3.6	4.1	3.7	3.4
17	4.0	5.7	.21	19	3.4	17	9.2	3.6	3.7	3.6	3.5	3.6
18	4.3	14	.21	30	3.3	17	9.0	3.6	3.9	3.5	3.5	3.7
19	4.3	6.3	.21	21	3.2	16	9.3	3.5	3.9	3.9	3.5	3.8
20	4.4	4.0	.27	21	3.1	16	9.3	3.5	4.0	6.5	3.7	3.8
21	4.7	2.9	.20	42	3.1	16	8.6	3.5	3.9	3.8	3.6	3.7
22	4.8	2.1	.31	29	3.0	16	8.0	3.4	3.7	3.7	3.5	3.7
23	5.1	4.2	.28	21	3.0	14	7.4	3.4	3.5	3.8	3.5	3.7
24	5.0	3.2	.25	15	2.9	12	7.6	3.4	3.3	4.1	3.4	3.6
25	5.0	3.0	.19	12	2.9	14	7.4	3.4	3.3	3.8	3.4	3.9
26	4.3	2.3	.13	10	2.8	13	7.2	3.6	3.3	3.6	3.4	3.8
27	4.7	1.5	.12	9.8	2.8	14	6.9	3.6	3.3	3.6	3.5	3.8
28	4.7	1.1	.08	8.7	5.8	12	6.2	3.6	3.2	3.7	3.7	3.7
29	4.8	.59	.05	8.0	-----	12	5.9	3.7	3.3	3.9	3.6	3.7
30	4.7	.48	.03	7.6	-----	12	5.4	3.8	3.6	4.0	3.6	3.7
31	4.8	-----	.01	7.1	-----	12	-----	3.8	-----	4.1	3.6	-----
TOTAL	147.8	131.77	14.04	415.37	114.5	515.1	490.9	125.0	112.2	127.2	117.0	111.2
MEAN	4.77	4.39	.45	13.4	4.09	16.6	16.4	4.03	3.74	4.10	3.77	3.71
MAX	5.7	14	3.6	42	6.6	50	92	5.8	4.6	6.5	5.4	4.1
MIN	4.0	.48	.01	.59	2.8	5.6	5.4	3.4	3.2	3.5	3.4	3.4
AC-FT	293	261	28	824	227	1,020	974	248	223	252	232	221

CAL YR 1973 TOTAL 7,997.71 MEAN 21.9 MAX 135 MIN .01 AC-FT 15,860
 WTR YR 1974 TOTAL 2,422.09 MEAN 6.64 MAX 92 MIN .01 AC-FT 4,800

PEAK DISCHARGE (BASE, 150 FT³/S).--Mar. 8 (0100) 154 ft³/s; Apr. 2 (0900) 260 ft³/s.

11070050 BAUTISTA CREEK AT VALLE VISTA, CALIF.

LOCATION.--Lat 33°44'04", long 116°53'33", in SE¼NE¼SE¼ sec.17, T.5 S., R.1 E., Riverside County, on left levee of flood channel, 1.0 mi (1.6 km) south of Valle Vista.

DRAINAGE AREA.--47.2 mi² (122.2 km²).

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,835 ft (559 m), from topographic map.

AVERAGE DISCHARGE.--5 years, 0.46 ft³/s (0.0130 m³/s), 333 acre-ft/yr (411,000 m³/yr).

EXTREMES.--Current year: Maximum discharge, 750 ft³/s (21.2 m³/s) July 23 (gage height, 2.60 ft or 0.792 m, from floodmark), from rating curve extended as explained below; no flow for part of year.

Period of record: Maximum discharge, 750 ft³/s (21.2 m³/s) July 23, 1974 (gage height, 2.60 ft or 0.792 m, from floodmark), from rating curve extended above 80 ft³/s (2.27 m³/s) on basis of computation of flow in concrete-lined channel at gage heights 1.50 ft (0.457 m), 2.00 ft (0.610 m), and 3.00 ft (0.914 m); no flow for many days in each year.

REMARKS.--Records fair. No regulation above station. Diversion above station for irrigation of about 15 acres (61,000 m²). Some infiltration by detention dam, 1.5 mi (2.4 km) upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.55	.20	1.6	.12	.94	.21	0	.58	0	.07	0
2	0	.42	.12	1.1	.04	.52	.22	0	.04	0	0	0
3	0	.05	.14	.33	0	.22	.07	0	.11	0	0	0
4	0	.02	.18	17	0	.31	.07	.13	0	0	0	.27
5	0	0	.14	.11	.12	.09	.07	.34	0	0	.12	.01
6	0	0	.17	.09	.31	.02	.07	.09	0	0	0	0
7	.08	0	.08	87	.45	.22	1.5	.10	.02	0	0	0
8	.21	0	0	31	.45	4.7	.20	.30	.04	.03	0	0
9	.19	0	0	.14	.31	.10	0	.27	0	0	0	0
10	.22	0	0	.14	.12	0	0	.22	0	0	0	0
11	.05	0	0	.14	.18	0	0	0	0	.51	0	0
12	0	.01	.07	.14	.26	0	0	.22	0	.16	0	0
13	0	.02	0	.14	.02	0	0	.13	0	.34	0	0
14	0	.02	0	.08	0	0	.09	0	0	.03	0	0
15	0	.12	0	0	.08	0	0	0	.05	.02	0	0
16	0	.28	0	0	.12	0	0	0	0	0	0	0
17	0	.29	0	.11	.12	0	0	.10	0	0	0	0
18	0	.04	0	.10	.13	0	0	0	0	0	0	.08
19	0	.11	0	.14	0	0	0	.43	0	2.9	0	.10
20	0	.13	0	.14	.09	0	.10	1.7	0	.32	0	0
21	0	.11	.11	.15	.06	0	.11	.48	0	0	0	0
22	.04	.16	.12	.27	.19	0	0	.02	0	.01	0	0
23	.04	1.4	.04	.16	.10	0	0	0	0	32	0	.06
24	0	.38	.02	.17	0	.11	0	0	0	.09	0	0
25	0	.19	.04	.22	0	1.2	0	0	0	0	0	1.5
26	0	.20	.06	.15	.17	.68	0	0	0	0	0	0
27	0	.14	0	.31	0	0	0	0	0	0	0	0
28	0	.14	0	.30	.72	0	0	0	0	0	0	0
29	0	.22	0	.14	-----	.15	.34	0	0	.02	0	0
30	.10	.13	0	.22	-----	.12	0	0	0	0	0	0
31	.17	-----	0	.22	-----	.09	-----	0	-----	0	0	-----
TOTAL	1.10	5.13	1.49	141.81	4.16	9.47	3.05	4.53	.84	36.43	.19	2.02
MEAN	.036	.17	.048	4.57	.15	.31	.10	.15	.028	1.18	.006	.067
MAX	.22	1.4	.20	87	.72	4.7	1.5	1.7	.58	32	.12	1.5
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	2.2	10	3.0	281	8.3	19	6.0	9.0	1.7	72	.4	4.0
CAL YR 1973	TOTAL 309.39 MEAN .85 MAX 56 MIN 0 AC-FT 614											
WTR YR 1974	TOTAL 210.22 MEAN .58 MAX 87 MIN 0 AC-FT 417											

PEAK DISCHARGE (BASE, 50 FT ³ /S, REVISED)						
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.
1-4	1530	1.60	140	7-23	1545	2.60
1-7	1900	2.59	743			750

11070270 PERRIS VALLEY STORM DRAIN AT NUEVO ROAD, NEAR PERRIS, CALIF.

LOCATION.--Lat 33°48'04", long 117°12'19", in SE¼SW¼SW¼ sec.21, T.4 S., R.3 W., Riverside County, 1.9 mi (3.0 km) northeast of Perris, and 2.0 mi (3.2 km) upstream from San Jacinto River.

DRAINAGE AREA.--93.3 mi² (241.6 km²).

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder and rain-gage attachment. Altitude of gage is 1,413 ft (430.6 m), from topographic map.

AVERAGE DISCHARGE.--5 years, 1.19 ft³/s (0.0337 m³/s), 862 acre-ft/yr (1.06 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 808 ft³/s (22.9 m³/s) Jan. 7 (gage height, 2.61 ft or 0.796 m), from rating curve extended as explained below; no flow most of year.

Period of record: Maximum discharge, 914 ft³/s (25.9 m³/s) Feb. 13, 1973 (gage height, 2.79 ft or 0.850 m), from rating curve extended above 400 ft³/s (11.3 m³/s) on basis of slope-area measurement at gage height 6.7 ft (2.042 m); no flow most of each year.

Flood of Feb. 25, 1969, 4,840 ft³/s (137 m³/s), gage height, 6.7 ft (2.042 m), from floodmarks, result of slope-area measurement by Riverside County Flood Control District.

REMARKS.--Records good. Some regulation by percolation basins above station. Extensive pumping for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0		0	0	0	0					
2		0		0	0	12	.97					
3		0		0	0	2.7	0					
4		0		0	0	.18	0					
5		0		86	0	0	0					
6		0		7.3	0	0	0					
7		0		189	0	14	0					
8		0		155	0	67	0					
9		0		12	0	2.7	0					
10		0		0	0	0	0					
11		0		0	0	0	0					
12		0		0	0	0	0					
13		0		0	0	0	0					
14		0		0	.20	0	0					
15		0		0	0	0	0					
16		0		0	.07	0	0					
17		0		0	0	0	0					
18		8.4		0	0	0	0					
19		.34		0	0	0	0					
20		0		.79	0	0	0					
21		0		0	0	0	0					
22		0		0	0	0	0					
23		0.5		0	0	0	0					
24		0		0	0	0	0					
25		.62		0	0	0	0					
26		0		0	0	0	0					
27		0		0	0	0	0					
28		0		0	0	0	0					
29		0		0	-----	0	0					
30		0		0	-----	0	0					
31		-----		0	-----	0	-----		-----			-----
TOTAL	0	15.86	0	530.09	.27	98.48	.97	0	0	0	0	0
MEAN	0	.53	0	17.1	.010	3.18	.032	0	0	0	0	0
MAX	0	8.4	0	189	.20	67	.97	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	31	0	1,050	.5	196	1.9	0	0	0	0	0
(a)	0	1.20	0	4.77	.02	1.71	.10	0	0	.13	0	0
CAL YR 1973	TOTAL	812.82	MEAN	2.23	MAX	226	MIN	0	AC-FT	1,610		
WTR YR 1974	TOTAL	645.77	MEAN	1.77	MAX	189	MIN	0	AC-FT	1,200		

PEAK DISCHARGE (BASE, 200 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
1-4	1940	1.79	391	1-7	2040	2.61	808
1-5	0130	1.29	202	1-8	0005	1.92	449

a Precipitation, in inches.

SANTA ANA RIVER BASIN

11070375 SAN JACINTO RIVER AT RAILROAD CANYON WEIR, NEAR ELSINORE, CALIF.

LOCATION.--Lat 33°44'10", long 117°15'08", in SW¼SE¼NW¼ sec.13, T.5 S., R.4 W., Riverside County, on right bank 4.3 mi (6.9 km) northeast of Railroad Canyon Dam, and 5.8 mi (9.3 km) northeast of Elsinore.

DRAINAGE AREA.--562 mi² (1,456 km²).

PERIOD OF RECORD.--October 1951 to current year. Monthly discharge only prior to October 1971. Daily discharge available in district files.

GAGE.--Water-stage recorder. Altitude of gage is 1,400 ft (427 m), from topographic map. Prior to Sept. 28, 1960, at site 0.8 mi (1.3 km) upstream at different datum.

AVERAGE DISCHARGE (River only).--23 years, 5.89 ft³/s (0.167 m³/s), 4,270 acre-ft/yr (5.26 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,050 ft³/s (29.7 m³/s) Jan. 7 (gage height not furnished); no flow most of year.

Period of record: Maximum discharge, 5,330 ft³/s (151 m³/s) Feb. 25, 1969, results of runoff study by Riverside County Flood Control and Water Conservation District; no flow for long periods in each year.

REMARKS.--Flow partially regulated by Lake Hemet (see sta 11069000). Diversions for irrigation and domestic use above station. At times imported Colorado River water is discharged into channel above station by Temescal Water Co. or Elsinore Valley Municipal Water District.

COOPERATION.--Records furnished by Riverside County Flood Control and Water Conservation District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0		0		0						
2		0		0		3.5						
3		0		0		5.3						
4		0		4.8		2.5						
5		0		124		.72						
6		0		11		.36						
7		0		229		.40						
8		0		379		66						
9		0		26		16						
10		0		3.6		1.1						
11		0		1.1		.36						
12		0		.52		0						
13		0		3.6		0						
14		0		1.8		0						
15		0		1.3		0						
16		0		1.2		0						
17		0		.99		0						
18		0		.81		0						
19		1.2		.63		0						
20		1.4		.54		0						
21		.22		.92		0						
22		0		.52		0						
23		4.2		.27		0						
24		.61		.18		0						
25		0		.18		0						
26		0		.27		0						
27		0		.27		0						
28		0		.09		0						
29		0		0	-----	0						
30		0		0	-----	0						
31		-----		0	-----	0	-----		-----		-----	
TOTAL	0	7.63	0	835.91	0	96.24	0	0	0	0	0	0
MEAN	0	.26	0	27.0	0	3.10	0	0	0	0	0	0
MAX	0	4.2	0	379	0	66	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	15	0	1,660	0	191	0	0	0	0	0	0
(a)	0	458	0	0	0	436	1,380	0	0	0	0	854
CAL YR 1973	TOTAL	1,991.68	MEAN	5.46	MAX	322	MIN	0	AC-FT	3,950		
WTR YR 1974	TOTAL	939.84	MEAN	2.57	MAX	379	MIN	0	AC-FT	1,860		

a Imported Colorado River water, in acre-feet.

LOCATION.--Lat 33°40'42", long 117°14'03", in SW¼SE¼NW¼ sec.6, T.6 S., R.3 W., Riverside County, on left bank at Railroad Canyon Road, 5.1 mi (8.2 km) northeast of Elsinore.

PERIOD OF RECORD.--October 1969 to current year.

EXTREMES.--Current year: Maximum discharge, 169 ft³/s (4.79 m³/s) Jan. 8 (gage height not furnished); no flow most of year.

Period of record: Maximum discharge, 169 ft³/s (4.79 m³/s) Jan. 8, 1974 (gage height not furnished); no flow most of each year.

Flood of Feb. 25, 1969, 2,010 ft³/s (56.9 m³/s), at site 1 mi (2 km) upstream (from records of Riverside County Flood Control and Water Conservation District).

COOPERATION.--Records furnished by Riverside County Flood Control and Water Conservation District.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0		0	0					
2				0		0	0					
3				0		0	0					
4				.37		0	0					
5				15		0	0					
6				4.7		0	0					
7				43		0	0					
8				115		6.1	0					
9				19		3.4	.47					
10				12		2.1	.87					
11				3.7		.02	.66					
12				.63		0	.48					
13				.09		0	.33					
14				0		0	.23					
15				0		0	.16					
16				0		0	.05					
17				0		0	0					
18				0		0	0					
19				0		0	0					
20				0		0	0					
21				0		0	0					
22				0		0	0					
23				0		0	0					
24				0		0	0					
25				0		0	0					
26				0		0	0					
27				0		0	0					
28				0		0	0					
29				0	-----	0	0					
30				0	-----	0	0					
31		-----		0	-----	0	-----		-----			-----
TOTAL	0	0	0	213.49	0	11.62	3.25	0	0	0	0	0
MEAN	0	0	0	6.89	0	.37	.11	0	0	0	0	0
MAX	0	0	0	115	0	6.1	.87	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	423	0	23	6.4	0	0	0	0	0
CAL YR 1973	TOTAL 160.71	MEAN .44	MAX 55	MIN 0	AC-FT 319							
WTR YR 1974	TOTAL 229.36	MEAN .63	MAX 115	MIN 0	AC-FT 453							

SANTA ANA RIVER BASIN

11070500 SAN JACINTO RIVER NEAR ELSINORE, CALIF.

LOCATION.--Lat 33°39'51", long 117°17'35", in SE¼SE¼NE¼ sec.9, T.6 S., R.4 W., Riverside County, on right bank 2 mi (3 km) east of Elsinore, and 2.1 mi (3.4 km) downstream from Railroad Canyon Dam.

DRAINAGE AREA.--723 mi² (1,873 km²).

PERIOD OF RECORD.--January 1916 to current year. Monthly figures 1927-50, adjusted for diversion, published in WSP 1315-B.

GAGE.--Water-stage recorder. Altitude of gage is 1,270 ft (387 m), from topographic map. Prior to Feb. 13, 1916, nonrecording gage at site 0.7 mi (1.1 km) downstream at different datum. Feb. 13, 1916, to Oct. 27, 1921, nonrecording gage at present site at different datum.

EXTREMES.--Current year: Maximum discharge, 34 ft³/s (0.96 m³/s) Jan. 7 (gage height, 3.13 ft or 0.954 m); no flow for several months.

Period of record: Maximum discharge, 16,000 ft³/s (453 m³/s) Feb. 17, 1927 (gage height, 11.8 ft or 3.60 m), from rating curve extended above 2,000 ft³/s (56.6 m³/s) on basis of slope-area measurement of maximum flow; no flow for several months in most years.

REMARKS.--Records good. Flow partly regulated by Lake Hemet (see sta 11069000) and regulated since 1928 by Railroad Canyon Reservoir, capacity, 12,000 acre-ft (14.8 km³), 2.1 mi (3.4 km) above station. Diversion for irrigation and domestic use above Railroad Canyon Reservoir. Temescal Water Co. diverted 737 acre-ft (909,000 m³/yr) during current year from Railroad Canyon Reservoir for irrigation below station in vicinity of Corona. See schematic diagram of Santa Ana River basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.07	.23	2.9	2.0	2.5	3.8				
2		0	.97	.21	2.8	2.2	2.6	3.8				
3		0	.07	.21	2.8	2.2	2.7	3.8				
4		0	.07	.65	2.8	2.1	2.7	2.6				
5		0	.06	1.9	2.8	2.0	2.9	.20				
6		.01	.06	.45	2.7	2.0	3.0	.19				
7		.04	.05	4.4	2.5	2.1	3.2	.17				
8		.06	.04	9.0	2.5	5.3	3.4	.12				
9		.08	.04	.64	2.5	3.2	3.6	.15				
10		.09	.04	.38	2.5	2.8	3.8	.20				
11		.09	.03	.27	2.5	2.6	4.0	.18				
12		.09	.04	.24	2.5	2.5	4.2	.16				
13		.10	.05	.24	2.5	2.5	4.6	.15				
14		.11	.05	.24	2.5	2.4	4.8	.14				
15		.13	.06	.26	2.6	2.4	4.8	.15				
16		.13	.06	.27	2.6	2.2	3.8	.17				
17		.13	.05	.32	2.6	2.2	3.4	.17				
18		.19	.07	.33	2.6	2.1	3.5	.15				
19		.21	.07	.33	2.5	2.1	3.5	.14				
20		.17	.07	.35	2.2	2.0	3.1	.13				
21		.15	.08	2.0	2.1	2.0	3.1	.11				
22		.15	.10	3.2	2.1	1.9	3.0	.09				
23		.22	.11	3.1	2.0	1.9	3.0	.08				
24		.17	.13	3.1	2.0	1.9	3.0	.07				
25		.13	.11	3.1	2.0	1.9	3.0	.05				
26		.11	.13	3.1	2.0	1.9	3.0	.02				
27		.10	.13	3.0	1.9	1.9	3.1	0				
28		.08	.15	3.1	1.9	1.9	1.4	0				
29		.07	.19	3.6	-----	2.0	1.6	0				
30		.07	.19	3.1	-----	2.4	3.6	0				
31		-----	.21	3.0	-----	2.4	-----	0	-----			-----
TOTAL	0	3.58	2.65	54.37	67.4	71.0	97.9	16.99	0	0	0	0
MEAN	0	.12	.086	1.75	2.43	2.29	3.26	.55	0	0	0	0
MAX	0	.42	.21	9.0	2.9	5.3	4.8	3.8	0	0	0	0
MIN	0	0	.03	.21	1.4	1.9	1.4	0	0	0	0	0
AC-FT	0	7.1	5.3	108	135	141	194	34	0	0	0	0
CAL YR 1973	TOTAL	604.25	MEAN	1.65	MAX	16	MIN	0	AC-FT	1,200		
WTR YR 1974	TOTAL	314.39	MEAN	.46	MAX	9.0	MIN	0	AC-FT	624		

11072000 TEMESCAL CREEK NEAR CORONA, CALIF.

LOCATION.--Lat 33°50'29", long 117°30'37", in El Sobrante de San Jacinto Grant, Riverside County, on left bank 0.2 mi (0.3 km) downstream from unnamed tributary, and 3.8 mi (6.1 km) southeast of Corona.

DRAINAGE AREA.--164 mi² (425 km²), excludes 768 mi² (1,989 km²) above Lake Elsinore.

PERIOD OF RECORD.--October 1927 to current year. Monthly discharge only for the period October 1928 to January 1929, published in WSP 1315-B.

GAGE.--Water-stage recorder. Concrete control since June 12, 1970. Altitude of gage is 730 ft (223 m), from topographic map. Prior to Feb. 11, 1943, at datum 6.00 ft (1.829 m) higher.

AVERAGE DISCHARGE.--47 years, 3.39 ft³/s (0.0960 m³/s), 2,460 acre-ft/yr (3.03 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 198 ft³/s (5.61 m³/s) Jan. 7 (gage height, 9.97 ft or 3.039 m); no flow many days.

Period of record: Maximum discharge, 14,900 ft³/s (422 m³/s) Mar. 2, 1938, on basis of slope-area measurement of maximum flow; no flow at times in most years.

REMARKS.--Records good. Flow regulated by several storage reservoirs. Many diversions above station for irrigation. See schematic diagram of Santa Ana River basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.11	0	0	1.1	.59	1.2	.59	.24			
2	.04	.06	0	0	1.1	4.4	2.0	.51	.24			
3	.04	.05	0	0	1.1	1.2	2.3	.51	.24			
4	.04	0	0	5.2	1.1	.86	1.5	.51	.24			
5	.04	0	0	4.1	1.1	.76	1.2	1.2	.20			
6	.04	0	0	.50	1.1	.76	1.2	.46	.16			
7	.04	.07	0	46	.98	.86	1.2	.47	.14			
8	.04	.08	0	27	.98	8.1	1.2	.45	.13			
9	.04	.04	0	3.5	.98	2.5	1.2	1.4	.11			
10	.04	.03	0	.65	1.1	1.9	1.2	3.6	.08			
11	.08	0	0	.60	1.1	1.5	1.2	3.7	.03			
12	.06	.04	0	.64	1.1	1.2	1.2	3.2	.04			
13	.07	.11	0	.66	1.2	1.1	1.2	.42	.03			
14	0	.14	0	.70	1.2	2.1	1.2	.38	0			
15	0	.15	0	.74	1.2	1.4	1.2	.38	0			
16	0	.14	0	.77	1.2	1.2	1.2	.43	0			
17	.06	.10	0	.81	1.2	1.1	1.2	.51	0			
18	.07	.35	0	.85	1.1	1.7	1.2	.67	0			
19	.09	.15	0	.67	1.1	1.7	1.1	.94	0			
20	.07	.07	0	.67	1.1	1.4	1.5	.66	0			
21	.06	0	.02	.76	.98	1.4	1.4	.44	0			
22	.05	.02	0	.86	.98	1.4	1.4	.44	0			
23	.08	.24	.03	.86	.76	1.2	1.4	.43	0			
24	.11	.13	0	.86	.67	1.1	1.4	.38	0			
25	.10	.09	0	.86	.67	1.1	1.4	.38	0			
26	.15	.01	0	.86	.67	.98	1.4	.33	0			
27	.11	0	0	.86	.59	.98	1.7	.33	0			
28	.05	0	0	.86	.59	1.1	1.9	.33	0			
29	0	0	0	.86	-----	1.6	1.7	.31	0			
30	.03	0	0	.86	-----	1.4	1.2	.24	0			
31	.08	-----	0	.98	-----	1.3	-----	.24	-----			-----
TOTAL	1.72	2.18	.05	103.54	28.05	49.89	41.3	24.84	1.88	0	0	0
MEAN	.056	.073	.002	3.34	1.00	1.61	1.38	.80	.063	0	0	0
MAX	.15	.35	.03	46	1.2	8.1	2.3	3.7	.24	0	0	0
MIN	0	0	0	0	.59	.59	1.1	.24	0	0	0	0
AC-FT	3.4	4.3	.10	205	56	99	82	49	3.7	0	0	0

CAL YR 1973 TOTAL 284.67 MEAN .78 MAX 33 MIN 0 AC-FT 565
WTR YR 1974 TOTAL 253.45 MEAN .69 MAX 46 MIN 0 AC-FT 503

11072200 TEMESCAL CREEK AT CORONA, CALIF.

LOCATION.--Lat 33°53'46", long 117°34'50", in La Sierra Grant, Riverside County, on right bank 0.2 mi (0.3 km) downstream from Lincoln Avenue, and 1.0 mi (1.6 km) northwest of Corona.

DRAINAGE AREA.--249 mi² (645 km²), excludes 768 mi² (1,989 km²) above Lake Elsinore.

PERIOD OF RECORD.--December 1967 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 550 ft (168 m), from topographic map.

AVERAGE DISCHARGE.--6 years, 6.00 ft³/s (0.170 m³/s), 4,350 acre-ft/yr (5.36 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 638 ft³/s (18.1 m³/s) Jan. 7 (gage height, 3.20 ft or 0.975 m); no flow many days.

Period of record: Maximum discharge, 8,850 ft³/s (251 m³/s) Feb. 25, 1969 (gage height, 8.17 ft or 2.490 m, from floodmark), on basis of slope-area measurement of maximum flow; no flow for many days in most years.

Flood of Mar. 2, 1938, 14,900 ft³/s (422 m³/s), by slope-area measurement at site 3 mi (5 km) upstream.

REMARKS.--Records poor. Flow regulated by Lake Elsinore and several storage reservoirs. Many diversions for irrigation. Prior to July 22, 1968, effluent from city of Corona disposal plant was released to creek at site 0.5 mi (0.8 km) upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	1.3	1.2	3.0	1.4	2.7	1.2	4.8	.24	3.3	.81	.01
2	1.0	1.3	1.3	2.0	1.5	55	15	5.0	.90	1.6	.45	.41
3	1.0	1.4	1.5	1.0	1.6	3.0	1.8	4.3	.73	1.8	0	.01
4	1.0	1.4	1.7	148	1.7	1.5	.24	3.3	.16	1.2	.04	.25
5	1.0	1.5	1.9	78	1.9	1.0	.73	2.7	.50	1.4	1.3	0
6	1.0	1.5	2.1	20	2.1	.80	.12	2.2	1.2	3.0	.84	1.5
7	1.0	1.6	2.1	195	2.4	.50	.26	5.9	2.0	2.7	.66	1.4
8	1.0	1.6	2.1	118	3.0	57	.81	9.4	3.3	3.3	.73	.31
9	1.0	1.7	2.1	20	3.2	4.0	.63	9.9	1.8	1.8	.08	.84
10	1.0	1.7	2.1	8.0	3.4	.50	1.0	1.1	2.7	1.2	.38	.73
11	1.0	1.8	2.1	2.0	3.7	0	.17	.31	2.2	2.2	.23	1.1
12	1.0	1.8	2.2	1.1	4.0	0	.13	1.4	1.6	3.0	.12	.81
13	1.0	1.9	1.0	.90	4.4	0	.20	3.0	2.4	1.2	.04	.05
14	1.0	2.0	.60	.80	5.0	0	.05	1.6	2.7	1.3	.09	.96
15	1.0	2.2	.30	.70	4.8	.50	.65	1.6	4.3	3.6	.84	.28
16	1.1	2.5	.20	.60	4.5	.60	1.9	.85	2.4	1.6	1.6	1.4
17	1.1	57	.05	.50	4.2	.80	2.4	.08	2.0	.31	.73	2.4
18	1.1	117	.40	.40	4.0	1.1	.13	.49	3.0	1.1	.63	3.6
19	1.1	0	.27	0	3.8	1.8	.89	.63	3.0	.96	.84	.31
20	1.1	6.4	.06	0	3.6	1.1	.27	3.0	2.2	.96	.03	.84
21	1.1	2.0	0	0	3.5	.38	.01	4.3	2.7	.37	0	2.0
22	1.1	12	0	0	3.4	1.6	.20	3.0	5.0	1.0	0	1.4
23	1.1	44	.25	0	3.3	1.1	.04	3.0	1.1	.04	.06	1.4
24	1.1	2.0	1.5	0	3.2	1.1	.45	4.6	1.4	.03	.84	1.1
25	1.2	1.4	2.0	0	3.2	1.4	2.0	3.6	2.4	.25	.16	1.4
26	1.2	1.3	1.5	.50	3.1	.96	4.3	2.7	1.1	.01	.39	3.0
27	1.2	1.2	.80	.80	3.0	3.3	3.0	2.7	1.4	.53	.04	4.6
28	1.2	1.1	0	1.1	2.8	1.8	1.1	3.0	1.4	1.8	1.2	5.0
29	1.2	1.0	0	1.2	-----	2.0	2.2	1.2	1.6	.45	.12	4.3
30	1.3	0	0	1.2	-----	2.0	4.5	1.6	1.4	.57	.06	4.6
31	1.3	-----	1.0	1.3	-----	.85	-----	.52	-----	.11	.37	-----
TOTAL	33.5	273.6	32.33	606.10	89.7	148.39	46.38	91.78	58.83	42.69	13.68	46.01
MEAN	1.04	9.12	1.04	19.6	3.20	4.79	1.55	2.96	1.96	1.38	.44	1.53
MAX	1.3	117	2.2	195	5.0	57	15	9.9	5.0	3.6	1.6	5.0
MIN	1.0	0	0	0	1.4	0	.01	.08	.16	.01	0	0
AC-FT	66	543	64	1,200	178	294	92	182	117	85	27	91

CAL YR 1973 TOTAL 1,242.26 MEAN 3.40 MAX 155 MIN 0 AC-FT 2,460
WTR YR 1974 TOTAL 1,482.99 MEAN 4.06 MAX 195 MIN 0 AC-FT 2,940

NOTE.--No gage-height record Oct. 1 to Nov. 16, Nov. 24 to Dec. 24, Jan. 9 to Mar. 1, Mar. 3-7, 9-18.

11073200 SAN ANTONIO CREEK BELOW SAN ANTONIO DAM, CALIF.

LOCATION.--Lat 34°09'26", long 117°40'50", in NE¼NE¼SE¼ sec.23, T.1 N., R.8 W., Los Angeles-San Bernardino County line, on left wall of outlet channel at toe of San Antonio Dam, and 4.7 mi (7.6 km) northeast of Claremont.

DRAINAGE AREA.--26.9 mi² (69.7 km²).

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,093.94 ft (638.233 m) above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--12 years, 9.76 ft³/s (0.276 m³/s), 7,070 acre-ft/yr (8.72 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 73 ft³/s (2.07 m³/s) Jan. 16 (gage height, 1.62 ft or 0.494 m); no flow most of year.

Period of record: Maximum discharge, 8,420 ft³/s (238 m³/s) Jan. 25, 1969 (gage height, 11.22 ft or 3.420 m), from rating curve extended above 400 ft³/s (11.3 m³/s) on basis of gate openings at dam; no flow most of each year.

REMARKS.--Records good. Flow regulated by San Antonio flood-control reservoir, capacity, 7,620 acre-ft (9.40 hm³). Water diverted out of basin for power, domestic use, and irrigation. See schematic diagram of Santa Ana River basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	0	0	0		0	.16					
2	0	0	0	0		.07	.16					
3	0	0	0	0		.11	.16					
4	0	0	0	.14		.01	.72					
5	0	0	0	.20		.33	.16					
6	0	0	0	.16		.05	.16					
7	0	0	0	1.5		.02	.16					
8	0	0	0	.95		.32	.16					
9	0	0	0	.26		.34	.16					
10	0	0	0	.24		.24	.16					
11	0	0	0	.24		.24	.16					
12	0	0	0	.24		.24	.16					
13	0	0	0	.24		.24	.16					
14	0	0	0	13		.24	.16					
15	0	0	0	36		.24	.16					
16	0	0	0	7.1		.20	.16					
17	0	.16	0	1.8		.16	.16					
18	0	2.2	0	1.2		.16	.16					
19	0	1.5	.01	.24		.16	.16					
20	0	.30	0	.22		.16	.16					
21	0	.10	0	.36		.16	.16					
22	0	.05	0	.24		.16	.16					
23	0	.01	0	.11		.16	.16					
24	0	.01	0	0		.16	.16					
25	0	.01	0	0		.16	.16					
26	0	.01	0	0		.16	.16					
27	0	.01	0	0		.16	.16					
28	0	.01	0	0		.16	.10					
29	0	.01	0	0	-----	.16	0					
30	0	.01	0	0	-----	.16	0					
31	0	-----	0	0	-----	.16	-----		-----		-----	
TOTAL	.01	4.39	.01	64.48	0	5.29	20.82	0	0	0	0	0
MEAN	.0003	.15	.0003	2.08	0	.17	.69	0	0	0	0	0
MAX	.01	2.2	.01	36	0	.34	16	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	.02	8.7	.02	128	0	10	41	0	0	0	0	0

CAL YR 1973 TOTAL 1,970.63 MEAN 5.40 MAX 97 MIN 0 AC-FT 3,910
WTR YR 1974 TOTAL 95.00 MEAN .26 MAX 36 MIN 0 AC-FT 188

11073360 CHINO CREEK AT SCHAEFER AVENUE, NEAR CHINO, CALIF.

LOCATION.--Lat 34°00'14", long 117°43'34", in Santa Ana del Chino Grant, San Bernardino County, on right bank 300 ft (91 m) downstream from Schaefer Avenue, 0.8 mi (1.3 km) downstream from San Antonio Creek, and 1.5 mi (2.4 km) southwest of Chino.

DRAINAGE AREA.--48.9 mi² (126.7 km²).

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 685 ft (209 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 1,150 ft³/s (32.6 m³/s) Mar. 8 (gage height, 5.55 ft or 1.692 m), from rating curve extended as explained below; minimum daily, 0.05 ft³/s (0.001 m³/s) Oct. 4.
 Period of record: Maximum discharge, 2,600 ft³/s (73.6 m³/s) Oct. 20, 1972 (gage height, 6.45 ft or 1.966 m, from floodmarks), from rating curve extended above 620 ft³/s (17.6 m³/s) on basis of computation of flow in concrete-lined channel at 1,600 ft³/s (45.3 m³/s) and a contracted-opening measurement at 9.23 ft (2.813 m); minimum daily, 0.05 ft³/s (0.001 m³/s) Sept. 23, Oct. 4, 1973.
 Flood of Jan. 25, 1969, 9,200 ft³/s (261 m³/s), gage height, 9.23 ft (2.813 m), present datum, by contracted-opening measurement at site 6.1 mi (9.8 km) downstream.

REMARKS.--Records fair. Flow partly regulated by San Antonio flood-control reservoir, capacity, 7,620 acre-ft (9.40 km³). Natural streamflow affected by extensive ground-water withdrawals, diversions for power, domestic use, irrigation, and return flow from irrigated areas. California Water Project reported releases of 65,020 acre-ft (80.2 km³) between Dec. 3 and Sept. 30 to basin at San Antonio Creek at Rialto pipeline below San Antonio Dam (sta 11073210) at point 10 mi (16 km) upstream. See schematic diagram of Santa Ana River basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.09	.40	4.6	170	.12	2.8	73	.76	155	145	180	140
2	.12	.40	.62	170	.12	124	264	.76	65	145	175	96
3	.07	.40	.60	170	.16	38	140	8.0	83	150	170	100
4	.05	.32	45	250	.21	.12	136	66	155	160	175	105
5	.07	.32	94	100	131	.91	105	79	155	160	180	100
6	.07	.26	100	10	244	.09	66	86	155	155	180	100
7	.07	.40	155	300	238	140	66	109	155	150	180	96
8	.16	.50	155	80	170	389	58	105	155	131	185	96
9	.07	.40	208	8.0	165	3.5	58	100	155	136	190	100
10	.09	.62	256	.30	150	1.9	58	93	155	145	190	105
11	.09	.40	226	.10	145	1.9	58	96	155	155	196	105
12	.16	.40	202	.13	136	1.9	58	37	59	155	202	142
13	.12	.32	208	.13	127	1.9	58	63	.92	165	208	105
14	.21	.32	140	.27	127	2.6	58	114	80	88	214	96
15	.26	.32	.62	.22	145	2.2	58	114	155	190	202	93
16	.21	.76	.32	.21	100	1.3	58	100	60	185	208	93
17	.21	17	.50	14	44	.92	60	89	76	180	208	96
18	.32	109	.40	1.5	136	.62	60	89	150	170	107	93
19	.32	19	.40	.52	122	.76	60	34	150	185	190	89
20	.21	4.0	.62	2.9	127	.62	60	54	145	190	206	89
21	.32	1.6	96	17	131	81	60	100	145	202	220	89
22	.62	60	190	.50	127	136	60	100	145	202	185	89
23	.76	16	170	.50	127	53	60	105	150	208	190	86
24	1.1	3.0	165	.50	131	.76	60	96	145	196	196	86
25	.92	.76	170	.50	127	64	55	100	145	208	214	86
26	.76	.32	175	.40	150	109	60	123	145	226	214	89
27	.40	.40	170	.40	150	118	63	145	140	226	196	86
28	.40	.26	175	112	128	100	27	150	145	214	190	86
29	.40	.32	175	180	-----	93	1.3	145	145	208	190	86
30	.40	.40	170	180	-----	93	.76	150	145	214	196	86
31	.32	-----	170	97	-----	35	-----	150	-----	208	196	-----
TOTAL	9.37	238.60	3,623.68	1,467.04	3,375.61	1,597.80	2,059.06	2,801.52	3,868.92	5,452	5,933	2,908
MEAN	.30	7.95	117	60.2	121	51.5	68.6	90.4	129	176	191	96.9
MAX	1.1	109	256	300	244	389	264	150	155	226	220	142
MIN	.05	.26	.32	.10	.12	.09	.76	.76	.92	88	107	86
AC-FT	19	473	7,190	3,700	6,700	3,170	4,080	5,560	7,670	10,810	11,770	5,770

CAL YR 1973 TOTAL 5,645.90 MEAN 15.5 MAX 373 MIN .05 AC-FT 11,200
 WTR YR 1974 TOTAL 33,737.64 MEAN 92.4 MAX 389 MIN .05 AC-FT 66,920

PEAK DISCHARGE (BASE, 600 FT³/S)
 DATE TIME G.H. DISCHARGE DATE TIME G.H. DISCHARGE
 11-18 1600 5.29 784 3-8 0400 5.55 1,150
 11-22 2215 5.44 964 4-2 0200 5.50 1,020
 3-7 1600 5.20 710

11073470 CUCAMONGA CREEK NEAR UPLAND, CALIF.

LOCATION.--Lat 34°10'46", long 117°37'41", in NE¼NE¼NE¼ sec.17, T.1 N., R.7 W., San Bernardino County, on left bank 0.1 mi (0.2 km) upstream from unnamed tributary, and 5.7 mi (9.2 km) north of Upland.

DRAINAGE AREA.--9.68 mi² (25.07 km²).

PERIOD OF RECORD.--October 1927 to current year. Monthly discharge only for October to December 1928, published in WSP 1315-B.

GAGE.--Water-stage recorder. Altitude of gage is 2,600 ft (792 m), from topographic map. See WSP 1735 for history of changes prior to Dec. 13, 1938. Dec. 14, 1938, to Mar. 30, 1971, at site 0.6 mi (1.0 km) downstream at different datums.

AVERAGE DISCHARGE.--47 years, 7.90 ft³/s (0.22 m³/s), 5,720 acre-ft/yr (7.05 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 90 ft³/s (2.55 m³/s) Jan. 8 (gage height unknown); minimum daily, 2.8 ft³/s (0.08 m³/s) Sept. 29.

Period of record: Maximum discharge, 14,100 ft³/s (399 m³/s) Jan. 25, 1969 (gage height, 14.44 ft or 4.401 m, site and datum then in use), from rating curve extended above 450 ft³/s (12.7 m³/s) on basis of slope-area measurements at gage heights 6.22 ft (1.896 m) and 12.44 ft (3.792 m); minimum daily, 0.30 ft³/s (0.008 m³/s) Oct. 5, 6, 1962.

REMARKS.--Records poor. No regulation or diversion above station. See schematic diagram of Santa Ana River basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	4.1	10	9.0	13	9.0	15	8.7	5.7	5.1	4.2	3.3
2	4.4	4.1	9.0	7.0	13	14	17	9.1	5.7	5.1	4.0	3.2
3	4.4	4.1	6.0	6.0	13	14	15	8.7	5.7	5.2	3.6	3.0
4	4.4	4.2	5.3	7.0	13	12	14	8.7	5.7	4.7	3.5	3.2
5	4.4	4.2	5.2	10	12	14	13	8.7	5.6	4.7	3.7	3.2
6	4.4	4.2	5.2	25	11	12	13	8.7	5.4	4.8	3.7	3.2
7	4.3	4.2	5.2	90	11	13	12	8.7	5.4	4.8	3.7	3.2
8	5.0	4.2	5.2	43	11	19	11	8.7	5.4	4.5	3.7	3.2
9	4.6	4.2	5.2	20	11	18	11	8.0	5.4	4.6	3.7	3.2
10	4.4	4.2	5.0	17	11	15	10	8.0	5.4	4.8	3.7	3.2
11	4.3	4.3	5.0	16	10	14	10	7.0	5.2	4.8	3.7	3.2
12	4.3	4.3	5.0	15	10	14	10	7.0	5.2	4.7	3.6	3.2
13	4.3	4.3	5.0	14	10	14	9.8	7.0	5.2	4.4	3.4	3.2
14	4.3	4.3	5.1	13	10	15	9.8	7.0	5.2	4.2	3.4	3.2
15	4.3	4.3	5.2	12	10	15	9.8	7.0	5.2	4.2	3.5	3.4
16	4.2	4.3	5.2	12	10	15	9.8	7.0	5.2	4.2	3.5	3.4
17	4.2	5.0	5.2	17	10	15	9.6	6.4	5.4	4.2	3.4	3.4
18	4.2	30	5.2	22	9.5	15	9.6	6.4	5.4	4.2	3.2	3.4
19	4.1	10	5.2	20	9.5	15	9.6	6.2	6.2	4.4	3.5	3.4
20	4.1	6.0	5.2	21	9.5	15	9.6	6.2	6.8	4.2	3.6	3.4
21	4.1	5.6	5.2	30	9.5	15	9.4	6.0	6.8	4.3	3.6	3.2
22	4.1	5.0	5.4	28	9.5	14	9.4	6.0	6.4	4.1	3.4	3.2
23	4.8	6.0	5.2	19	9.1	14	9.4	6.0	6.2	4.1	3.4	3.2
24	4.7	5.6	5.2	18	9.1	14	9.4	6.0	6.1	4.1	3.2	3.2
25	4.2	5.2	5.2	17	9.1	14	9.4	6.0	6.0	4.2	3.3	3.2
26	4.1	5.0	5.2	16	9.1	14	9.3	5.8	5.7	4.1	3.1	3.2
27	4.0	4.7	5.4	15	9.1	14	8.7	5.8	5.7	4.2	3.0	3.2
28	4.0	4.5	5.2	14	9.1	14	9.1	5.8	5.7	4.2	3.0	3.0
29	4.0	4.5	5.2	13	-----	14	8.7	5.7	5.7	4.1	3.0	2.8
30	4.1	4.5	5.0	13	-----	14	8.7	5.7	5.2	4.2	3.0	2.9
31	4.1	-----	5.0	13	-----	14	-----	5.7	-----	4.2	3.2	-----
TOTAL	133.2	169.1	169.8	592.0	291.1	442.0	320.1	217.7	169.9	137.6	107.5	96.2
MEAN	4.30	5.64	5.48	19.1	10.4	14.3	10.7	7.02	5.66	4.44	3.47	3.21
MAX	5.0	30	10	90	13	19	17	9.1	6.8	5.2	4.2	3.4
MIN	4.0	4.1	5.0	6.0	9.1	9.0	8.7	5.7	5.2	4.1	3.0	2.8
AC-FT	264	335	337	1,170	577	877	635	432	337	273	213	191

CAL YR 1973 TOTAL 4,521.4 MEAN 12.4 MAX 740 MIN 1.7 AC-FT 8,970
WTR YR 1974 TOTAL 2,846.2 MEAN 7.80 MAX 90 MIN 2.8 AC-FT 5,650

PEAK DISCHARGE (BASE, 80 FT³/S).--Jan. 8 (time and gage height unknown) 90 ft³/s.

NOTE.--No gage-height record Oct. 1 to Feb. 6, May 8 to June 18.

SANTA ANA RIVER BASIN

11073495 CUCAMONGA CREEK NEAR MIRA LOMA, CALIF.

LOCATION.--Lat 33°58'58", long 117°35'55", in SW¼SW¼NE¼ sec.22, T.2 S., R.7 W., San Bernardino County, on left levee 200 ft (61 m) upstream from Merrill Avenue, and 4.6 mi (7.4 km) west of Mira Loma.

DRAINAGE AREA.--75.8 mi² (196.3 km²).

PERIOD OF RECORD.--January 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 655.3 ft (199.74 m) above mean sea level.

AVERAGE DISCHARGE.--6 years (1969-74), 3.59 ft³/s (0.102 m³/s), 2,600 acre-ft/yr (3.21 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 773 ft³/s (21.9 m³/s) Jan. 7 (gage height, 2.31 ft or 0.704 m); no flow most of year.

Period of record: Maximum discharge, 9,100 ft³/s (258 m³/s) Jan. 25, 1969 (gage height, 7.08 ft or 2.158 m, from floodmark), on basis of slope-area measurement of maximum flow; no flow most of each year.

REMARKS.--Records good. Extensive ground-water withdrawals for municipal supply and irrigation. See schematic diagram of Santa Ana River basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0		0						
2				0		2.4						
3				0		0						
4				12		0						
5				.40		0						
6				12		0						
7				204		0						
8				65		.59						
9				7.4		0						
10				.86		0						
11				.17		0						
12				0		0						
13				0		0						
14				0		0						
15				0		0						
16				0		0						
17				0		0						
18				0		0						
19				0		0						
20				0		0						
21				0		0						
22				0		0						
23				0		0						
24				0		0						
25				0		0						
26				0		0						
27				0		0						
28				0		0						
29				0	-----	0						
30				0	-----	0						
31		-----		0	-----	0	-----		-----			-----
TOTAL	0	0	0	301.83	0	2.99	0	0	0	0	0	0
MEAN	0	0	0	9.74	0	.097	0	0	0	0	0	0
MAX	0	0	0	204	0	2.4	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	599	0	5.9	0	0	0	0	0	0
CAL YR 1973	TOTAL 561.08	MEAN 1.54	MAX 296	MIN 0	AC-FT 1.110							
WTR YR 1974	TOTAL 304.82	MEAN .84	MAX 204	MIN 0	AC-FT 605							

PEAK DISCHARGE (BASE, 300 FT³/S).--Jan. 7 (2000) 773 ft³/s (2.31 ft).

LOCATION.--Lat 33°53'00", long 117°38'40", in La Sierra Grant, Riverside County, on left bank of outlet channel, 2,500 ft (762 m) downstream from axis of Prado Dam, and 4.5 mi (7.2 km) west of Corona.

PERIOD OF RECORD.--May 1930 to November 1939 (irrigation seasons only), March 1940 to current year. Published as "at Santa Fe Railroad Bridge, near Prado" May 1930 to November 1931, as "at Atchison, Topeka, and Santa Fe Railroad Bridge, near Prado" May 1932 to November 1939, and as "below Prado Dam, near Prado" March 1940 to September 1950.

GAGE.--Water-stage recorder and concrete control since August 1944. Datum of gage is approximately 449 ft (136.9 m) above mean sea level (Corps of Engineers Survey). Prior to Mar. 18, 1940, at about same site at various datums.

EXTREMES.--Current year: Maximum discharge, 2,590 ft³/s (73.3 m³/s) Jan. 8 (gage height, 4.86 ft or 1.481 m); minimum daily, 45 ft³/s (1.27 m³/s) Oct. 14.

Period of record: Maximum discharge, 5,800 ft³/s (164 m³/s) Jan. 26, 1969 (gage height, 5.75 ft or 1.753 m); minimum daily, 3.0 ft³/s (0.085 m³/s) Sept. 24-30, 1973.

Flood of Mar. 2, 1938, 100,000 ft³/s (2,830 m³/s), by slope-area measurement at site 2.5 mi (4.0 km) downstream.

REMARKS.--Records good. Flow regulated since 1941 by Prado Reservoir, capacity, 201,200 acre-ft (248 hm³) and Big Bear Lake (see sta 11049000). Natural streamflow affected by extensive ground-water withdrawals, diversion for irrigation, and return flow from irrigated areas. California Water Project released 65,020 acre-ft (80.2 hm³) to basin (see sta 11073360). See schematic diagram of Santa Ana River basin. Records of chemical analyses for the current year are published in Part 2 of this report.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	53	83	297	232	174	110	67	183	179	230	197
2	128	58	96	281	122	203	235	68	159	181	233	130
3	163	55	84	275	108	231	258	67	76	184	232	130
4	184	57	84	395	106	227	213	95	199	179	232	131
5	179	61	126	755	117	181	193	128	205	178	229	130
6	155	60	146	730	272	148	140	155	206	176	229	128
7	68	59	206	760	308	141	128	186	215	184	229	129
8	54	64	215	1,440	292	162	119	187	213	207	230	132
9	49	63	194	794	245	180	119	186	212	209	232	133
10	50	61	241	353	244	180	123	182	212	212	228	133
11	54	65	258	352	244	194	122	174	216	217	224	137
12	53	65	253	346	245	206	120	150	186	216	223	152
13	48	64	253	341	244	204	120	87	69	216	227	154
14	45	56	255	340	248	202	117	172	70	175	227	136
15	54	74	156	335	248	197	114	173	201	176	226	138
16	52	68	93	333	220	195	116	168	172	217	225	136
17	52	78	84	328	204	191	109	165	69	217	224	135
18	53	114	84	308	196	187	112	162	198	215	175	136
19	50	110	82	288	245	180	119	142	197	219	177	141
20	56	73	84	261	243	166	128	77	194	218	224	141
21	57	114	90	227	238	123	124	165	199	208	205	139
22	64	169	259	150	241	153	127	172	189	203	215	135
23	66	165	277	104	243	162	126	170	189	209	221	133
24	67	168	263	103	237	150	126	169	181	209	223	134
25	65	150	266	102	234	110	124	160	174	213	220	134
26	63	88	259	98	237	146	129	159	173	217	216	136
27	61	76	260	94	234	156	126	187	166	216	216	140
28	59	77	269	102	239	209	117	179	169	215	213	137
29	59	105	268	233	-----	231	75	179	171	218	213	137
30	54	86	263	245	-----	210	74	175	176	228	214	134
31	51	-----	262	263	-----	191	-----	178	-----	230	214	-----
TOTAL	2,293	2,556	5,813	11,033	6,286	5,590	3,963	4,684	5,229	6,341	6,826	4,138
MEAN	74.0	85.2	188	356	225	180	132	151	174	205	220	138
MAX	184	169	277	1,440	308	231	258	187	216	230	233	197
MIN	45	53	82	94	106	110	74	67	69	175	175	128
AC-FT	4,550	5,070	11,530	21,880	12,470	11,090	7,860	9,290	10,370	12,580	13,540	8,210
CAL YR 1973	TOTAL 41,367.4		MEAN 113	MAX 560	MIN 3.0	AC-FT 82,050						
WTR YR 1974	TOTAL 64,752.0											

SANTA ANA RIVER BASIN

11075600 SANTA ANA RIVER AT IMPERIAL HIGHWAY, NEAR ANAHEIM, CALIF.

LOCATION.--Lat 33°51'23", long 117°47'23", in Canon De Santa Ana, Orange County, on right bank 500 ft (152 m) upstream from State Highway 91, and 0.4 mi (0.6 km) south of Orangethorpe Avenue.

DRAINAGE AREA.--1,544 mi² (3,999 km²), excludes 768 mi² (1,989 km²) above Lake Elsinore.

PERIOD OF RECORD.--October 1973 to September 1974.

GAGE.--Water-stage recorder. Altitude of gage is 285 ft (87 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 2,170 ft³/s (61.5 m³/s) Jan. 8 (gage height, 3.02 ft or 0.920 m); minimum daily, 41 ft³/s (1.16 m³/s) Oct. 10.

REMARKS.--Records fair. Natural flow affected by ground-water withdrawals, diversions, importation from Metropolitan Water District and California Aqueduct, municipal use, return flow from irrigation, Prado flood-control reservoir, capacity, 201,200 acre-ft (248 hm³) since 1940, and Big Bear Lake (see sta 11049000). See schematic diagram of Santa Ana River basin. Records of sediment discharge for the current year are published in Part 2 of this report.

COOPERATION.--Forty-four discharge measurements furnished by Orange County Flood Control District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	50	88	290	241	241	164	124	190	167	213	164
2	85	55	79	263	158	386	236	132	187	167	209	125
3	118	58	81	263	137	286	305	127	144	181	209	125
4	134	60	82	448	132	270	268	142	214	172	209	125
5	130	64	110	720	120	230	233	150	229	167	213	125
6	118	61	142	680	226	190	187	158	217	161	217	125
7	69	54	178	811	358	184	172	169	209	164	217	125
8	50	58	202	1,290	340	247	172	175	209	202	225	124
9	45	59	184	819	286	209	169	178	202	221	229	128
10	41	55	190	430	286	205	164	164	196	221	229	127
11	47	58	221	400	286	209	167	167	193	221	229	132
12	50	64	225	382	281	225	155	161	178	221	225	135
13	48	61	229	370	281	217	150	134	114	213	229	153
14	43	50	225	330	272	229	147	164	112	198	229	130
15	50	64	172	305	272	233	142	172	174	161	225	132
16	51	62	97	295	263	225	147	167	178	221	225	131
17	48	78	89	300	233	205	132	167	112	217	225	130
18	48	113	78	295	213	190	140	158	176	221	207	130
19	46	116	74	295	263	181	140	155	181	217	161	134
20	50	70	76	254	254	169	142	127	178	217	213	134
21	47	94	79	175	258	144	142	144	184	205	213	132
22	57	158	194	153	268	150	144	153	187	205	187	130
23	60	140	233	140	268	164	142	155	187	202	225	130
24	57	142	229	137	258	161	142	153	181	199	229	130
25	57	134	250	137	263	144	142	150	181	199	225	130
26	57	99	263	140	272	150	140	147	178	199	229	130
27	60	83	258	140	276	158	137	155	181	199	229	130
28	53	78	272	134	254	190	144	158	181	199	221	130
29	54	98	272	180	-----	229	134	172	178	199	205	130
30	53	93	276	221	-----	229	130	187	169	202	202	128
31	46	-----	276	241	-----	213	-----	181	-----	205	199	-----
TOTAL	1,937	2,429	5,424	11,038	7,019	6,463	4,929	4,846	5,400	6,143	6,702	3,934
MEAN	62.5	81.0	175	356	251	208	164	156	180	198	216	131
MAX	134	158	276	1,290	358	386	305	187	229	221	229	164
MIN	41	50	74	134	120	144	130	124	112	161	161	124
AC-FT	3,840	4,820	10,760	21,890	13,920	12,820	9,780	9,610	10,710	12,180	13,290	7,800
WTR YR 1974	TOTAL	66,264	MEAN	182	MAX	1,290	MIN	41	AC-FT	131,400		

11075720 CARBON CREEK BELOW CARBON CANYON DAM, CALIF.

LOCATION.--Lat 33°54'40", long 117°50'29", in SW¼NE¼ sec.17, T.3 S., R.9 W., Orange County, on right wall of outlet channel 250 ft (76 m) downstream from toe of Carbon Canyon Dam, and 2.4 mi (3.9 km) northwest of Yorba Linda.

DRAINAGE AREA.--19.5 mi² (50.5 km²).

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 396.29 ft (120.789 m) above mean sea level (Corps of Engineers bench mark). Prior to Dec. 3, 1971, at datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE.--13 years, 0.53 ft³/s (0.0150 m³/s), 384 acre-ft/yr (473,000 m³/yr).

EXTREMES.--Current year: Maximum discharge, 60 ft³/s (1.70 m³/s) Mar. 4 (gage height, 2.75 ft or 0.838 m); no flow most of year.

Period of record: Maximum discharge, 446 ft³/s (12.6 m³/s) Feb. 25, 1969 (gage height, 4.64 ft or 1.414 m, present datum), from rating curve extended above 110 ft³/s (3.12 m³/s) on basis of computation of flow in concrete-lined channel at gage height 6.18 ft (1.884 m); no flow most of each year.

REMARKS.--Records good. Flow regulated by Carbon Canyon flood-control reservoir, capacity, 6,610 acre-ft (8.15 hm³). No diversion above station. See schematic diagram of Santa Ana River basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.01	0		0	0					
2		0	0	0		.14	.07					
3		0	0	0		.17	.04					
4		0	0	.05		.73	0					
5		0	0	.02		0	0					
6		0	0	.01		0	0					
7		0	0	.05		0	0					
8		0	0	18		.40	0					
9		0	0	27		.42	0					
10		0	0	1.1		.33	0					
11		0	0	0		.33	0					
12		0	0	0		.26	0					
13		0	0	0		1.4	0					
14		0	0	0		.01	0					
15		0	0	0		0	0					
16		0	0	0		0	0					
17		.01	0	0		0	0					
18		.01	0	0		0	0					
19		0	0	0		0	0					
20		0	0	0		0	0					
21		0	0	0		0	0					
22		.01	0	0		0	0					
23		.03	0	0		0	0					
24		.01	0	0		0	0					
25		0	0	0		0	0					
26		0	0	0		0	0					
27		0	0	0		0	0					
28		0	0	0		0	0					
29		0	0	0	-----	0	0					
30		0	0	0	-----	0	0					
31	-----	0	0	0	-----	0	-----		-----		-----	
TOTAL	0	.07	.01	46.23	0	4.19	.11	0	0	0	0	0
MEAN	0	.002	.0003	1.49	0	.14	.004	0	0	0	0	0
MAX	0	.03	.01	27	0	1.4	.07	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	.1	.02	92	0	8.3	.2	0	0	0	0	0
CAL YR 1973	TOTAL 52.21	MEAN .14	MAX 23	MIN 0	AC-FT 104							
WTR YR 1974	TOTAL 50.61	MEAN .14	MAX 27	MIN 0	AC-FT 100							

SANTA ANA RIVER BASIN

11075760 SANTA ANA RIVER NEAR KATELLA AVENUE, AT ORANGE, CALIF.

LOCATION.--Lat 33°48'08", long 117°52'39", sec.25, T.4 S., R.10 W., Orange County, 0.2 mi (0.3 km) south of Katella Avenue, and 0.6 mi (1.0 km) east of State College Boulevard near Anaheim Stadium, Orange.

DRAINAGE AREA.--1,593 mi² (4,126 km²), excludes 768 mi² (1,990 km²) above Lake Elsinore.

PERIOD OF RECORD.--December 1973 to September 1974.

GAGE.--Water-stage recorder. Altitude of gage is 145 ft (44 m), from topographic map.

EXTREMES.--Maximum discharge during period, 2,820 ft³/s (79.9 m³/s) Jan. 7 (gage height, 5.08 ft or 1.548 m); no flow most of year.

REMARKS.--Records poor. Natural flow affected by ground-water withdrawals, diversions, importation by Metropolitan Water District, municipal use, and return flow from irrigation. Prado flood-control reservoir, capacity, 201,200 acre-ft (248 hm³) since 1940, three small flood-control reservoirs, combined capacity, 31,900 acre-ft (39.3 hm³), and Big Bear Lake (see sta 11049000). Discharge up to 100 ft³/s (2.83 m³/s) can be diverted from Carbon Creek to Coyote Creek, 1.5 mi (2.4 km) upstream from mouth of Carbon Creek. See schematic diagram of Santa Ana River basin. Records of sediment discharge for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, DECEMBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	0	0	0					
2				0	0	253	9.4					
3				0	0	29	1.5					
4				182	0	0	.10					
5				137	0	0	0					
6				287	0	0	0					
7				880	0	12	0					
8				1,030	0	169	0					
9				957	0	35	0					
10				152	0	2.2	0					
11				26	0	0	0					
12				2.0	0	0	0					
13				60	0	0	0					
14				30	0	0	0					
15				0	14	0	0					
16				0	14	0	0					
17				0	9.0	0	0					
18				0	0	0	0					
19				0	0	0	0					
20				0	0	0	0					
21				0	0	0	0					
22				0	0	0	0					
23				0	0	0	0					
24				0	0	0	0					
25				0	0	0	0					
26				0	0	0	0					
27				0	0	20	0					
28				0	0	0	0					
29				0	-----	0	0					
30				0	-----	0	0					
31		-----		0	-----	0	-----		-----		-----	
TOTAL			0	3,743.0	37.0	520.2	11.00	0	0	0	0	0
MEAN			0	121	1.32	16.8	.37	0	0	0	0	0
MAX			0	1,030	14	253	9.4	0	0	0	0	0
MIN			0	0	0	0	0	0	0	0	0	0
AC-FT			0	1,440	73	1,030	22	0	0	0	0	0

11075800 SANTIAGO CREEK AT MODJESKA, CALIF.

LOCATION.--Lat 33°42'32", long 117°38'05", in SE¼SE¼NW¼ sec.29, T.5 S., R.7 W., Orange County, on right bank at Santiago Canyon road bridge, 0.3 mi (0.5 km) west of Modjeska, and 0.4 mi (0.6 km) downstream from Harding Creek.

DRAINAGE AREA.--12.5 mi² (32.4 km²).

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,254.35 ft (382.326 m) above mean sea level. Prior to Sept. 10, 1969, at datum 4.42 ft (1.347 m) higher.

AVERAGE DISCHARGE.--13 years, 6.96 ft³/s (0.197 m³/s), 5,040 acre-ft/yr (6.21 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 575 ft³/s (16.3 m³/s) Jan. 8 (gage height, 5.92 ft or 1.804 m); no flow on some days.

Period of record: Maximum discharge, 6,520 ft³/s (185 m³/s) Feb. 25, 1969 (gage height, 10.50 ft or 3.200 m, present datum), from rating curve extended above 840 ft³/s (23.8 m³/s) on basis of slope-area measurement of maximum flow; no flow at times each year.

REMARKS.--Records poor. Slight regulation by Modjeska Reservoir on Harding Creek. No diversion above station. See schematic diagram of Santa Ana River basin.

COOPERATION.--One discharge measurement furnished by Orange County Flood Control District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.02	.23	.13	2.3	1.2	5.0	3.2	1.4	.32	.07	.02
2	.03	.02	.25	.12	2.2	7.3	14	3.1	1.4	.31	.07	.02
3	.03	.05	.25	.11	2.0	6.5	8.0	3.0	1.5	.28	.07	.02
4	.05	.05	.27	10	2.0	6.2	6.4	2.9	1.3	.24	.07	.01
5	.05	.05	.27	5.0	1.9	5.5	5.3	2.9	1.4	.23	.06	0
6	.05	.06	.27	30	1.9	5.1	5.2	2.8	1.3	.19	.06	0
7	.05	.05	.27	100	1.8	4.8	5.1	2.8	1.4	.19	.06	0
8	.06	.05	.26	192	1.7	52	4.8	2.8	1.5	.19	.05	0
9	.07	.04	.26	24	1.6	35	4.8	2.7	1.2	.16	.05	0
10	.07	.04	.25	14	1.7	23	4.6	2.6	1.1	.15	.06	0
11	.06	.06	.24	10	1.7	23	4.4	2.6	1.1	.12	.06	0
12	.05	.04	.23	6.9	1.6	22	4.3	2.5	.96	.13	.06	0
13	.05	.04	.23	6.0	1.4	20	4.2	2.4	.93	.12	.06	0
14	.05	.04	.22	6.0	1.5	18	4.1	2.4	.87	.13	.06	.01
15	.05	.04	.21	5.2	1.5	16	4.0	2.3	.82	.12	.06	.01
16	.05	.04	.21	4.8	1.5	12	3.9	2.2	.79	.13	.06	.01
17	.05	.06	.20	4.8	1.5	9.8	3.8	2.1	.75	.11	.06	.01
18	.05	.23	.19	4.2	1.5	8.8	3.7	2.1	.75	.12	.06	.01
19	.04	.22	.18	4.1	1.5	8.1	3.6	2.0	.73	.10	.06	.01
20	.06	.17	.17	4.1	1.5	7.3	3.5	2.0	.63	.09	.06	.01
21	.15	.16	.16	4.3	1.5	6.5	3.5	1.9	.57	.09	.06	0
22	.29	.19	.30	4.0	1.5	6.5	3.4	1.8	.55	.09	.06	0
23	.25	.37	.23	4.3	1.5	6.5	3.4	1.8	.50	.08	.06	0
24	.05	.32	.18	4.0	1.5	5.6	3.3	1.7	.46	.08	.07	0
25	.03	.27	.16	3.8	1.4	5.6	3.3	1.6	.45	.08	.06	0
26	.02	.26	.14	3.6	1.4	5.6	3.3	1.6	.44	.07	.06	.01
27	.02	.24	.13	3.3	1.4	6.1	3.2	1.5	.42	.07	.04	.01
28	.02	.26	.12	2.9	1.3	5.8	3.2	1.5	.39	.06	.04	.01
29	.02	.25	.12	2.8	-----	5.4	3.2	1.4	.36	.07	.03	0
30	.02	.24	.11	2.7	-----	5.2	3.2	1.4	.34	.06	.04	0
31	.02	-----	.11	2.5	-----	5.1	-----	1.4	-----	.06	.04	-----
TOTAL	1.89	3.93	6.42	469.66	45.8	355.5	135.7	69.0	26.31	4.24	1.78	.17
MEAN	.061	.13	.21	15.2	1.64	11.5	4.52	2.23	.88	.14	.057	.006
MAX	.29	.37	.30	192	2.3	52	14	3.2	1.5	.32	.07	.02
MIN	.02	.02	.11	.11	1.3	1.2	3.2	1.4	.34	.06	.03	0
AC-FT	3.7	7.8	13	932	91	705	269	137	52	8.4	3.5	.3

CAL YR 1973 TOTAL 2,451.08 MEAN 6.72 MAX 215 MIN .02 AC-FT 4,860
WTR YR 1974 TOTAL 1,120.40 MEAN 3.07 MAX 192 MIN 0 AC-FT 2,220

PEAK DISCHARGE (BASE, 100 FT³/S).--Jan. 8 (0015) 575 ft³/s (5.92 ft).

NOTE.--No gage-height record Dec. 5 to Jan. 7; stage-discharge relation indefinite Apr. 9 to May 24.

11077500 SANTIAGO CREEK AT SANTA ANA, CALIF.

LOCATION.--Lat 33°46'13", long 117°53'02", in NW¼SW¼NW¼ sec.1, T.5 S., R.10 W., Orange County, on downstream side of Bristol Street bridge at Santa Ana, and 1,600 ft (500 m) upstream from mouth.

DRAINAGE AREA.--98.6 mi² (246 km²).

PERIOD OF RECORD.--October 1928 to current year. Monthly discharge only October to December 1928, published in WSP 1315-B.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 102.34 ft (31.193 m) above mean sea level (Orange County Flood Control District bench mark). Prior to Sept. 8, 1969, at site 0.1 mi (0.2 km) upstream at different datum.

AVERAGE DISCHARGE.--46 years, 5.11 ft³/s (0.144 m³/s), 3,700 acre-ft/yr (4.56 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 696 ft³/s (19.7 m³/s) Jan. 7 (gage height, 5.84 ft or 1.780 m); no flow most of year.

Period of record: Maximum discharge, 6,600 ft³/s (187 m³/s) Feb. 25, 1969 (gage height, 9.10 ft or 2.774 m, site and datum then in use); maximum gage height, 9.85 ft (3.002 m) Jan. 16, 1952; no flow most of each year.

REMARKS.--Records poor. Flow regulated by Santiago Reservoir, capacity, 25,000 acre-ft (30.8 hm³), since January 1963 by Villa Park flood-control reservoir, capacity, 15,500 acre-ft (19.1 hm³), and affected by intervening gravel pits. Diversions above station by Irvine Co. and Serrano and Carpenter Irrigation Districts. See schematic diagram of Santa Ana River basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	0	0		0						
2		0	0	0		36						
3		0	0	0		3.5						
4		0	0	48		0						
5		0	0	9.0		0						
6		0	0	46		0						
7		0	0	144		13						
8		0	0	25		68						
9		0	0	0		0						
10		0	0	0		0						
11		0	0	0		0						
12		0	0	0		0						
13		0	0	0		0						
14		0	0	0		0						
15		0	0	0		0						
16		0	0	0		0						
17		.05	0	.42		0						
18		8.5	0	0		0						
19		0	0	0		0						
20		0	0	.42		0						
21		0	0	0		0						
22		4.4	.79	0		0						
23		3.4	0	0		0						
24		0	0	0		0						
25		0	0	0		0						
26		0	0	0		0						
27		0	0	0		0						
28		0	0	0		0						
29		0	0	0	-----	0						
30		0	0	0	-----	0						
31		-----	0	0	-----	0	-----		-----			-----
TOTAL	0	16.35	.79	272.84	0	120.5	0	0	0	0	0	0
MEAN	0	.55	.026	8.80	0	3.89	0	0	0	0	0	0
MAX	0	8.5	.79	144	0	68	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	32	1.6	541	0	239	0	0	0	0	0	0

CAL YR 1973 TOTAL 398.11 MEAN 1.09 MAX 113 MIN 0 AC-FT 790
WTR YR 1974 TOTAL 410.48 MEAN 1.12 MAX 144 MIN 0 AC-FT 814

11078000 SANTA ANA RIVER AT SANTA ANA, CALIF.

LOCATION.--Lat 33°44'56", long 117°54'30", in NW¼SW¼SE¼ sec.10, T.5 S., R.10 W., Orange County, on pier of Fifth Street Bridge in Santa Ana, 1.8 mi (2.9 km) downstream from Santiago Creek.

DRAINAGE AREA.--1,700 mi² (4,403 km²), revised, excludes 768 mi² (1,989 km²) above Lake Elsinore.

PERIOD OF RECORD.--January 1923 to current year.

GAGE.--Water-stage recorder. Datum of gage is 71.20 ft (21.702 m) above mean sea level (Orange County bench mark). Jan. 3, 1923, to Jan. 24, 1929, at same site at different datum. Jan. 25, 1929, to June 20, 1948, at site 450 ft (137 m) upstream at different datum. June 21, 1948, to May 2, 1960, at same site at different datum. Feb. 28, 1961, to Oct. 1, 1961, at same site at datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE.--17 years (1923-40), 23.4 ft³/s (0.6627 m³/s), 16,940 acre-ft/yr (20.9 hm³/yr); 34 years (1940-74), 29.0 ft³/s (0.8213 m³/s), 21,010 acre-ft/yr (25.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 4,110 ft³/s (116 m³/s) Jan. 7 (gage height, 4.07 ft or 1.241 m); no flow most of year.
Period of record: Maximum discharge (excludes flow which bypassed gage from break in levee below Imperial Highway), 46,300 ft³/s (1,310 m³/s) Mar. 3, 1938 (gage height, 10.20 ft or 3.109 m), site and datum then in use), on basis of slope-area measurement of maximum flow; no flow for several months in each year.

REMARKS.--Records fair. Natural flow affected by ground-water withdrawals, diversions, importation by Metropolitan Water District, municipal use, return flow from irrigation, Prado flood-control reservoir, capacity, 201,200 acre-ft (248 hm³) since 1940, three small flood-control reservoirs, combined capacity, 31,900 acre-ft (39.3 hm³), Big Bear Lake (see sta 11049000), and Santiago Reservoir, capacity, 25,000 acre-ft (30.8 hm³). Discharge up to 100 ft³/s (2.83 m³/s) can be diverted from Carbon Creek to Coyote Creek 1.5 mi (2.4 km) upstream from mouth of Carbon Creek. See schematic diagram of Santa Ana River basin. Records of sediment discharge for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	0	0	0	0	0					
2		0	0	0	0	229	4.2					
3		0	0	0	0	116	.31					
4		0	0	231	0	3.0	0					
5		0	0	128	0	0	0					
6		0	0	383	0	0	0					
7		0	0	1,120	0	26	0					
8		0	0	880	0	290	0					
9		0	0	921	0	42	0					
10		0	0	292	0	10	0					
11		0	0	36	0	.11	0					
12		0	0	5.6	0	0	0					
13		0	0	55	0	0	0					
14		0	0	28	0	0	0					
15		0	0	.31	2.6	0	0					
16		0	0	0	5.3	0	0					
17		2.2	0	2.4	6.0	0	0					
18		24	0	0	0	0	0					
19		0	0	0	0	0	0					
20		0	0	1.2	0	0	0					
21		0	0	0	0	0	0					
22		9.1	2.9	0	0	0	0					
23		28	0	0	0	0	0					
24		0	0	0	0	0	0					
25		0	0	0	0	0	0					
26		0	0	0	0	0	0					
27		0	0	0	0	40	0					
28		0	0	0	0	.37	0					
29		0	0	0	-----	0	0					
30		0	0	0	-----	0	0					
31		-----	0	0	-----	0	-----		-----			-----
TOTAL	0	63.3	2.9	4,083.51	13.9	756.48	4.51	0	0	0	0	0
MEAN	0	2.11	.094	132	.50	24.4	.15	0	0	0	0	0
MAX	0	28	2.9	1,120	6.0	290	4.2	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	126	5.8	8,100	28	1,500	8.9	0	0	0	0	0
CAL YR 1973	TOTAL	6,368.47	MEAN	17.4	MAX	580	MIN	0	AC-FT	12,630		
WTR YR 1974	TOTAL	4,924.60	MEAN	13.5	MAX	1,120	MIN	0	AC-FT	9,770		

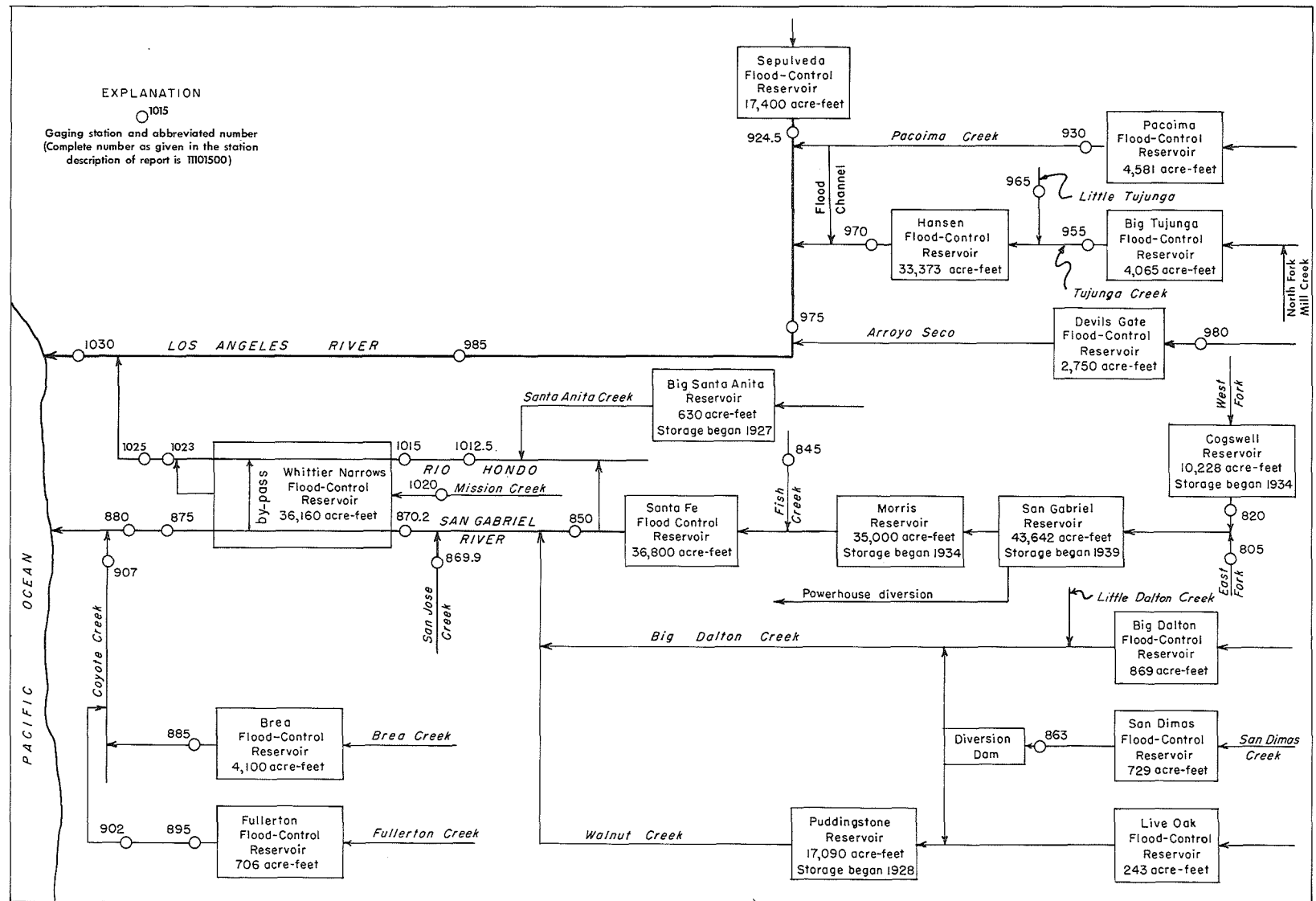


Figure 4.--Schematic diagram showing diversions and storage in San Gabriel and Los Angeles River basins.

LOCATION.--Lat 34°14'09", long 117°48'18", in NE¼NE¼ sec.27, T.2 N., R.9 W., Los Angeles County, on right bank 1,600 ft (400 m) upstream from mouth of Graveyard Canyon, 2.5 mi (4.0 km) upstream from confluence with West Fork, and 2.5 mi (4.0 km) west of Camp Bonita.

PERIOD OF RECORD.--December 1932 to current year. Prior to 1940, published as San Gabriel River near Camp Bonita.

GAGE.--Water-stage recorder. Datum of gage is 1,567.04 ft (477.634 m) above mean sea level (levels by Los Angeles County Flood Control District). Prior to Dec. 10, 1938, at site 0.6 mi (1.0 km) downstream at different datum.

EXTREMES.--Current year: Maximum discharge, 416 ft³/s (11.8 m³/s) Jan. 7 (gage-height, 10.23 ft or 3.118 m); minimum daily, 10 ft³/s (0.28 m³/s) Sept. 29, 30.
Period of record: Maximum discharge, 46,000 ft³/s (1,300 m³/s) Mar. 2, 1938, from rating curve extended above 21,300 ft³/s (603 m³/s), computed by Geological Survey; minimum, 1.5 ft³/s (0.042 m³/s) Oct. 1, 1934.

REMARKS.--Records poor. No regulation or diversion above station. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records furnished by Los Angeles County Flood Control District.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	18	30	20	76	54	93	53	38	26	17	14
2	19	18	34	18	72	124	100	54	38	26	16	14
3	19	18	29	17	69	122	96	54	38	26	16	14
4	18	18	27	32	67	87	90	54	37	25	16	14
5	18	18	26	44	67	81	87	55	36	25	16	14
6	18	18	25	119	65	79	86	55	36	25	16	14
7	18	18	24	224	64	90	85	56	36	24	16	14
8	18	18	23	212	60	157	84	56	35	24	16	14
9	18	18	23	114	59	120	86	56	34	24	16	13
10	18	18	24	81	57	106	83	56	34	23	16	13
11	18	17	23	64	55	100	80	57	34	23	16	13
12	18	17	23	59	55	99	79	57	33	23	16	13
13	18	18	23	62	55	101	78	58	32	22	16	13
14	18	18	23	67	54	104	77	56	32	22	16	13
15	18	18	22	69	54	108	77	54	31	22	16	13
16	18	18	22	76	54	110	76	52	30	21	16	12
17	18	21	22	97	54	112	75	50	30	21	16	12
18	18	59	21	101	52	113	74	48	29	21	16	12
19	17	28	20	108	52	112	74	46	28	21	16	12
20	17	25	20	112	52	110	73	44	27	21	15	12
21	17	23	20	143	52	108	72	42	27	21	15	12
22	18	23	20	133	50	106	71	40	27	21	15	12
23	18	23	20	125	49	105	71	42	27	20	15	12
24	18	21	19	118	49	101	70	44	27	20	15	11
25	18	20	19	110	49	101	67	43	27	20	15	11
26	18	20	19	105	48	99	64	42	27	19	15	11
27	17	20	18	99	47	99	63	41	27	19	15	11
28	17	20	19	93	47	95	62	40	26	18	14	11
29	17	19	18	87	-----	96	59	40	26	18	14	10
30	18	18	18	83	-----	96	56	40	26	17	14	10
31	18	-----	18	78	-----	93	-----	39	-----	17	14	-----
TOTAL	554	626	692	2,870	1,584	3,188	2,308	1,524	935	675	481	374
MEAN	17.9	20.9	22.3	92.6	56.6	103	76.9	49.2	31.2	21.8	15.5	12.5
MAX	19	59	34	224	76	157	100	58	38	26	17	14
MIN	17	17	18	17	47	54	56	39	26	17	14	10
AC-FT	1,100	1,240	1,370	5,690	3,140	6,320	4,580	3,020	1,850	1,340	954	742
WAL YR 1973	TOTAL 29,557		MEAN 81.0	MAX 1,830	MIN 11	AC-FT 58,630						
CAL YR 1974	TOTAL 15,811		MEAN 43.3	MAX 224	MIN 10	AC-FT 31,360						

11084500 FISH CREEK NEAR DUARTE, CALIF.

LOCATION.--Lat 34°09'57", long 117°55'24", in SW¼SW¼SW¼ sec.15, T.1 N., R.10 W., Los Angeles County, on left bank 0.8 mi (1.3 km) upstream from mouth of canyon, and 3.2 mi (5.1 km) northeast of Duarte.

DRAINAGE AREA.--6.36 mi² (16.47 km²).

PERIOD OF RECORD.--July to September 1916, July 1917 to current year.

GAGE.--Water-stage recorder. Broad-crested weir since July 1917, restored in December 1938. Datum of gage is 905.9 ft (276.12 m) above mean sea level. See WSP 1315-B for history of changes prior to Dec. 7, 1938. Dec. 7, 1938, to Oct. 3, 1951, at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--57 years (1917-74), 4.60 ft³/s (0.130 m³/s), 3,330 acre-ft/yr (4.11 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 376 ft³/s (10.6 m³/s) Jan. 7 (gage height, 4.17 ft or 1.271 m); minimum daily, 0.40 ft³/s (0.011 m³/s) Oct. 30.

Period of record: Maximum discharge, 13,000 ft³/s (368 m³/s) Jan. 25, 1969 (gage height, 11.98 ft or 3.652 m, from inside gage), from rating curve extended above 1,100 ft³/s (31.2 m³/s) on basis of slope-area measurement of maximum flow; maximum gage height, about 14.5 ft (4.42 m) Feb. 11, 16, 1959 (from debris wave); no flow at times in some years.

REMARKS.--Records poor. No regulation or diversion above station. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records furnished by Los Angeles County Flood Control District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	.60	1.4	3.0	5.8	4.6	5.4	4.0	2.6	1.6	1.1	.60
2	1.5	1.0	1.5	2.6	5.4	8.9	8.9	3.4	2.5	1.6	1.0	.60
3	1.8	1.2	1.6	3.1	5.4	11	6.2	3.4	2.4	1.6	1.0	.60
4	1.4	1.2	1.7	12	5.6	6.2	5.8	3.5	2.4	1.5	1.0	.60
5	1.2	1.1	1.7	13	5.4	5.1	5.6	3.5	2.3	1.5	.90	.60
6	1.7	1.0	1.3	49	4.9	4.9	4.9	3.7	2.3	1.5	.80	.60
7	2.0	.90	1.1	234	4.6	8.3	4.6	3.4	2.3	1.5	.90	.60
8	2.5	1.0	1.3	94	4.6	44	4.6	3.4	2.3	1.5	1.0	.70
9	2.4	1.1	1.1	29	4.3	17	4.8	3.5	2.5	1.5	1.1	.70
10	2.0	1.0	1.1	18	4.1	16	4.4	3.5	2.6	1.6	1.1	.70
11	1.7	.80	1.1	15	4.0	15	4.4	3.4	2.7	1.7	1.1	.70
12	1.6	.80	1.1	14	4.1	13	4.4	3.4	2.7	1.6	1.0	.80
13	1.4	1.0	1.2	14	4.3	11	4.6	3.4	2.6	1.3	1.0	.90
14	1.1	1.1	1.4	14	4.3	11	4.3	3.4	2.4	1.3	1.0	.80
15	1.1	1.1	1.3	13	4.4	9.6	3.8	3.5	2.1	1.3	1.0	.80
16	1.1	1.2	1.3	13	4.4	9.2	3.8	3.5	2.1	1.2	.90	.80
17	1.1	1.8	1.2	14	4.4	8.4	3.8	3.3	2.2	1.2	.80	.60
18	1.0	17	1.3	12	4.4	8.7	4.1	3.1	2.3	1.1	.70	.70
19	1.0	2.2	1.2	9.6	4.3	8.7	4.1	3.1	2.3	1.1	.80	.80
20	1.1	1.7	1.2	11	4.1	8.3	4.1	3.0	2.2	1.2	.80	.80
21	1.2	1.6	1.2	11	4.4	8.1	3.4	2.7	2.1	1.1	.90	.60
22	1.1	1.5	1.4	8.3	4.4	7.8	3.4	2.7	1.8	1.1	.90	.50
23	1.4	2.5	1.2	7.6	4.4	7.6	3.3	2.7	1.6	1.2	.90	.50
24	1.4	1.8	1.1	7.0	4.6	7.4	3.4	2.7	1.5	1.4	.90	.60
25	1.0	1.6	1.1	6.8	4.1	6.8	3.3	2.5	1.5	1.4	.90	.80
26	.90	1.6	1.1	6.8	4.6	6.6	3.1	2.4	1.5	1.4	.80	1.1
27	.70	1.5	1.2	6.8	4.6	7.6	3.0	2.4	1.5	1.3	.80	1.2
28	.60	1.5	1.2	6.6	4.4	6.4	3.0	2.6	1.4	1.3	.80	1.4
29	.50	1.4	1.2	6.4	-----	6.0	3.0	2.7	1.5	1.6	.80	1.1
30	.40	1.4	1.2	6.4	-----	6.0	2.7	3.0	1.5	1.6	.80	.90
31	.50	-----	1.2	6.2	-----	5.8	-----	2.9	-----	1.6	.60	-----
TOTAL	39.60	55.20	39.2	667.2	128.3	305.5	128.2	97.7	63.7	43.4	28.10	22.70
MEAN	1.28	1.84	1.26	21.5	4.58	9.85	4.27	3.15	2.12	1.40	.91	.76
MAX	2.5	17	1.7	234	5.8	44	8.9	4.0	2.7	1.7	1.1	1.4
MIN	.40	.60	1.1	2.6	4.0	4.6	2.7	2.4	1.4	1.1	.60	.50
AC-FT	79	109	78	1,320	254	606	254	194	126	86	56	45

CAL YR 1973 TOTAL 2,759.30 MEAN 7.56 MAX 480 MIN .40 AC-FT 5,470
 WTR YR 1974 TOTAL 1,618.40 MEAN 4.44 MAX 234 MIN .40 AC-FT 3,210

SAN GABRIEL RIVER BASIN

11085000 SAN GABRIEL RIVER BELOW SANTA FE DAM, NEAR BALDWIN PARK, CALIF.

LOCATION.--Lat 34°06'44", long 117°58'07", in SE¼NE¼SW¼ sec.6, T.1 S., R.10 W., Los Angeles County, on left bank at stilling basin of outlet of Santa Fe flood-control dam, 500 ft (152 m) downstream from axis of dam, and 1.7 mi (2.7 km) north of Baldwin Park.

DRAINAGE AREA.--236 mi² (611 km²).

PERIOD OF RECORD.--October 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is 400.00 ft (121.920 m) above mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum discharge, 146 ft³/s (4.13 m³/s) Apr. 15 (gage height, 10.82 ft or 3.298 m); no flow most of year.

Period of record: Maximum discharge, 30,900 ft³/s (875 m³/s) Jan. 26, 1969 (gage height, 22.20 ft or 6.767 m); no flow for several months in each year.

REMARKS.--Records good. Flow regulated by Cogswell and San Gabriel flood-control reservoirs, combined capacity, 53,870 acre-ft (66.4 hm³), Morris Reservoir, capacity, 35,000 acre-ft (43.2 hm³), and Santa Fe flood-control reservoir, capacity, 32,640 acre-ft (40.2 hm³). Diversions above station for irrigation, power development, and ground-water replenishment. At times water diverted from side of stilling basin to headwaters of Rio Hondo; 4,650 acre-ft (5.73 hm³) was diverted during current year. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records of diversion to Rio Hondo and one discharge measurement furnished by Los Angeles County Flood Control District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0		0	0		0			
2				0		0	0		0			
3				0		0	0		0			
4				1.5		1.7	0		0			
5				5.4		1.6	0		0			
6				2.8		.66	0		0			
7				1.4		.11	0		0			
8				1.4		3.2	0		0			
9				40		3.4	0		0			
10				85		3.4	0		0			
11				72		61	0		0			
12				47		42	0		0			
13				45		0	0		9.3			
14				45		0	0		13			
15				19		0	3.0		0			
16				0		0	0		0			
17				0		0	0		0			
18				0		0	0		0			
19				0		0	0		0			
20				0		0	0		0			
21				0		0	0		0			
22				0		0	0		0			
23				0		0	0		0			
24				0		0	0		0			
25				0		0	0		0			
26				0		0	0		0			
27				0		0	0		0			
28				0		0	0		0			
29				0	-----	0	0		0			
30				0	-----	0	0		0			
31		-----		0	-----	0	-----		-----			-----
TOTAL	0	0	0	365.5	0	117.07	3.0	0	22.3	0	0	0
MEAN	0	0	0	11.8	0	3.78	.10	0	.74	0	0	0
MAX	0	0	0	85	0	61	3.0	0	13	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	725	0	232	6.0	0	44	0	0	0
CAL YR 1973	TOTAL	11,762.62	MEAN	32.2	MAX	310	MIN	0	AC-FT	23,330		
WTR YR 1974	TOTAL	507.87	MEAN	1.39	MAX	85	MIN	0	AC-FT	1,010		

11086300 SAN DIMAS CREEK BELOW SAN DIMAS DAM, CALIF.

LOCATION.--Lat 34°09'10", long 117°46'18", in SW¼SE¼ sec.24, T.1 N., R.9 W., Los Angeles County, on left bank 1,000 ft (305 m) downstream from San Dimas Dam, and 3.7 mi (6.0 km) northeast of San Dimas.

DRAINAGE AREA.--16.3 mi² (42.2 km²).

PERIOD OF RECORD.--October 1951 to current year. Prior to October 1956 monthly discharge only, published in WSP 1735.

GAGE.--Water-stage recorder and low-flow concrete control. Datum of gage is 1,325.0 ft (403.86 m) above mean sea level (levels by Los Angeles County Flood Control District).

EXTREMES.--Current year: Maximum discharge, 55 ft³/s (1.56 m³/s) Jan. 7 (gage height, 0.86 ft or 0.262 m); minimum daily, 0.20 ft³/s (0.006 m³/s) Apr. 6-10.

Period of record: Maximum discharge, 4,280 ft³/s (121 m³/s) Jan. 25, 1969 (gage height, 6.98 ft or 2.128 m), from rating curve extended above 600 ft³/s (17.0 m³/s) on basis of computation of maximum flow over dam; no flow at times in most years.

REMARKS.--Records poor. Flow regulated by San Dimas flood-control reservoir, capacity, 756 acre-ft (932,000 m³) and at times by old water tunnel 150 ft (45 m) upstream. No diversion above station. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records furnished by Los Angeles County Flood Control District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	.60	.60	1.0	4.8	1.0	8.9	.90	1.6	1.4	1.0	.90
2	1.0	.60	.60	.90	4.8	1.2	8.9	.90	1.6	1.4	1.0	.90
3	1.0	.60	.40	.90	4.8	1.2	8.9	7.7	1.6	1.4	1.0	.90
4	1.0	.60	.40	1.2	4.8	1.2	8.3	11	1.6	1.4	1.0	.90
5	1.0	.60	.40	1.2	3.4	1.2	5.4	11	1.6	1.4	1.0	.90
6	.90	.60	.40	1.2	2.5	1.2	.20	11	1.6	1.4	1.0	.90
7	.90	.60	.40	4.8	2.5	1.4	.20	11	1.5	1.4	1.0	.90
8	.90	.60	.40	4.9	2.5	1.5	.20	11	1.5	1.4	1.0	.90
9	.90	.80	.30	32	2.5	1.4	.20	11	1.4	1.4	1.0	.90
10	.90	.90	.30	21	2.5	1.4	.20	7.1	1.4	1.4	1.0	.90
11	.90	.90	.30	21	2.5	7.8	.60	1.0	1.4	1.4	.90	.90
12	.90	.90	.30	21	2.5	12	.90	1.0	1.4	1.4	.90	.90
13	.90	.90	.30	20	2.5	11	.90	1.0	1.4	1.4	.90	.90
14	.90	1.5	.40	20	2.5	10	.90	1.0	1.4	1.4	.90	.90
15	.90	.90	.40	20	2.5	9.4	.90	1.0	1.4	1.4	.90	.90
16	.90	.60	.60	16	2.5	9.4	.90	1.0	1.4	1.4	.90	.90
17	.90	.80	.60	14	2.5	9.4	.90	1.0	1.4	1.4	.90	.90
18	.90	1.0	.60	14	2.5	9.4	1.0	1.0	1.4	1.4	.90	.90
19	.90	.80	.60	14	2.5	9.4	1.0	1.0	1.4	1.2	.90	.80
20	.90	.60	.60	14	2.5	9.4	1.0	1.0	1.4	1.2	.90	.80
21	.90	.80	.60	14	2.5	9.4	1.0	1.0	1.5	1.0	.90	.80
22	.90	.90	.60	18	1.6	9.4	1.0	1.0	1.5	1.0	.90	.80
23	.90	.80	.60	21	1.2	9.4	1.0	1.0	1.5	1.0	.90	7.2
24	.80	.80	.60	21	1.2	8.9	1.0	1.0	1.2	1.0	.90	12
25	.60	.80	.60	20	1.0	8.9	1.0	.90	1.2	1.0	.90	11
26	.60	.90	.60	20	1.0	8.9	1.0	.90	1.2	1.0	.90	11
27	.60	.80	.60	20	1.0	8.9	1.0	.90	1.2	1.0	.90	6.3
28	.60	.80	.60	19	1.0	8.9	1.0	1.2	1.2	1.0	.90	1.0
29	.60	.80	.80	14	-----	8.9	.90	1.6	1.2	1.0	.90	1.0
30	.60	.60	.80	9.1	-----	8.9	.90	1.6	1.4	1.0	.90	1.0
31	.60	-----	.80	5.1	-----	8.9	-----	1.6	-----	1.0	.90	-----
TOTAL	26.20	23.30	16.10	511.60	70.6	209.3	60.20	105.30	42.5	38.6	28.90	69.90
MEAN	.85	.78	.52	16.5	2.52	6.75	2.01	3.40	1.42	1.25	.93	2.33
MAX	1.0	1.5	.80	49	4.8	12	8.9	11	1.6	1.4	1.0	12
MIN	.60	.60	.30	.90	1.0	1.0	.20	.90	1.2	1.0	.90	.80
AC-FT	52	46	32	1,010	140	415	119	209	84	77	57	139

CAL YR 1973 TOTAL 1,998.90 MEAN 5.48 MAX 142 MIN 0 AC-FT 3,960
 WTR YR 1974 TOTAL 1,202.50 MEAN 3.29 MAX 49 MIN .20 AC-FT 2,390

LOCATION.--Lat 34°01'55", long 118°00'40", in El Monte Grant, Los Angeles County, on right bank of San Jose flood channel, 1,650 ft (503 m) upstream from Workman Mill Road, and 2.7 mi (4.3 km) southeast of El Monte.

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 248.52 ft (75.749 m) above mean sea level (levels by Los Angeles County Flood Control District).

AVERAGE DISCHARGE.—10 years, 30.9 ft³/s (0.875 m³/s), 22,390 acre-ft/yr (27.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 4,900 ft³/s (139 m³/s) Jan. 4, 7 (gage height, 5.02 ft or 1.530 m); minimum daily, 8.0 ft³/s (0.23 m³/s) Dec. 8.

Period of record: Maximum discharge, 10,200 ft³/s (289 m³/s) Jan. 24, 1967 (gage height, 6.80 ft or 2.073 m, from outside gage); no flow for some days in some years.

REMARKS.--Records poor. No regulation above station. One small diversion for ground-water recharge. At times effluent from city of Pomona's sewage reclamation plant is released to creek above Spadra and at Lemon Street. Bypass to the original San Jose Creek channel has been closed since Oct. 1, 1964. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records furnished by Los Angeles County Flood Control District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	17	54	34	23	16	11	13	14	13	13	13
2	19	14	14	23	23	330	95	14	13	12	14	13
3	21	11	13	23	22	40	18	14	13	14	14	13
4	1A	19	14	1,100	23	17	17	13	14	14	12	14
5	21	21	17	200	22	15	17	13	13	14	13	11
6	21	17	17	821	21	14	17	21	14	11	12	12
7	19	14	17	1,940	23	160	14	14	16	11	12	14
8	19	17	8.0	350	19	930	15	13	16	12	14	12
9	19	15	15	60	23	30	15	13	14	13	14	14
10	19	25	19	18	21	19	17	13	15	13	13	15
11	15	19	17	18	23	19	14	14	13	12	12	14
12	14	21	17	17	22	18	15	15	11	14	12	14
13	15	21	22	13	22	18	15	15	12	14	14	13
14	14	21	19	13	25	18	13	14	14	13	14	15
15	18	23	17	13	25	17	13	15	14	12	13	17
16	18	25	17	17	22	17	11	17	13	14	12	16
17	17	100	19	60	25	16	11	16	13	12	13	14
18	17	170	17	13	21	15	11	15	13	11	11	12
19	17	14	15	13	22	14	14	13	13	12	13	12
20	14	11	23	45	22	13	13	16	13	11	10	14
21	17	11	21	20	22	11	13	15	12	10	11	12
22	17	140	34	17	21	13	13	15	13	12	12	13
23	25	35	18	17	15	11	11	16	13	13	12	14
24	28	17	22	17	17	10	9.0	14	14	13	13	14
25	28	18	21	17	19	13	9.0	15	13	12	12	14
26	23	17	21	17	22	14	10	14	12	13	14	13
27	15	18	25	17	25	60	11	14	12	15	11	12
28	15	17	23	17	23	15	13	14	12	14	10	12
29	19	18	22	20	-----	13	15	14	13	14	12	13
30	18	17	21	21	-----	15	14	15	13	14	13	13
31	18	-----	22	22	-----	11	-----	14	-----	13	14	-----
TOTAL	577	903	621.0	4,993	613	1,922	484.0	451	399	394	389	402
MEAN	18.6	30.1	20.0	161	21.9	62.0	16.1	14.5	13.3	12.7	12.5	13.4
MAX	28	170	54	1,940	25	930	95	21	16	15	14	17
MIN	14	11	8.0	13	15	10	9.0	13	11	10	10	11
AC-FT	1,140	1,790	1,230	9,900	1,220	3,810	960	895	791	781	772	797
CAL YR 1973	TOTAL 12,651.0	MEAN 34.7	MAX 1,820	MIN 7.0	AC-FT 25,090							
WTR YR 1974	TOTAL 12,148.0	MEAN 33.3	MAX 1,940	MIN 8.0	AC-FT 24,100							

11087020 SAN GABRIEL RIVER ABOVE WHITTIER NARROWS DAM, CALIF.

LOCATION.--Lat 34°02'00", long 118°02'14", in La Puente Grant, Los Angeles County, on downstream side of bridge near center on Peck Road, 0.8 mi (1.3 km) downstream from San Jose flood channel, 1.2 mi (1.9 km) upstream from axis of Whittier Narrows Dam, and 1.8 mi (2.9 km) south of El Monte.

DRAINAGE AREA.--353 mi² (914 km²).

PERIOD OF RECORD.--October 1955 to September 1957, October 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 220 ft (67 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 9,800 ft³/s (278 m³/s) Jan. 7 (gage height, 6.85 ft or 2.088 m); minimum daily, 4.2 ft³/s (0.12 m³/s) Nov. 14, June 27.
Period of record: Maximum discharge, 46,600 ft³/s (1,320 m³/s) Jan. 25, 1969 (gage height, 10.90 ft or 3.322 m); no flow for part of most years.

REMARKS.--Records good except those for the period of no gage-height record, which are fair. Flow regulated by San Gabriel, Cogswell, and Santa Fe flood-control reservoirs, combined capacity, 90,670 acre-ft (112 hm³), several small flood-control reservoirs, combined capacity, 19,100 acre-ft (23.6 hm³), and Morris Reservoir, capacity, 35,000 acre-ft (43.2 hm³). Many diversions above station for irrigation, power development, and ground-water replenishment. Colorado River water released to the San Gabriel River at a site 14.9 mi (24.0 km) upstream from gage, at Metropolitan Water District aqueduct crossing on San Dimas Creek for ground-water replenishment. Los Angeles County Flood Control District diverted 4,650 acre-ft (5.73 hm³) of water from San Gabriel River below Santa Fe Dam to Rio Hondo during current year. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records of diversion to Rio Hondo furnished by Los Angeles County Flood Control District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	166	82	86	103	142	50	120	185	119	17	147	136
2	162	86	12	15	142	170	205	184	119	118	146	136
3	167	74	41	62	136	98	130	190	123	126	135	136
4	160	74	192	1,920	142	80	140	190	128	122	126	136
5	164	86	197	597	144	150	145	214	126	122	122	136
6	167	74	195	1,830	139	140	140	172	130	122	119	132
7	161	74	195	5,260	140	130	140	198	136	122	119	129
8	159	110	191	1,200	142	1,800	140	190	142	121	120	124
9	162	172	193	78	142	80	145	190	138	123	122	123
10	161	178	196	18	142	10	140	178	138	124	123	121
11	163	178	191	44	142	6.0	138	130	138	122	122	123
12	132	136	193	54	142	50	136	136	135	122	123	120
13	65	6.4	197	50	142	160	134	136	134	126	123	126
14	57	4.2	194	44	148	170	132	136	136	122	125	130
15	71	38	192	47	154	170	130	136	135	122	128	130
16	154	160	193	54	155	170	132	136	130	122	128	130
17	170	198	193	136	155	170	136	132	94	122	134	136
18	170	300	192	12	10	170	138	130	8.2	126	132	136
19	175	38	190	10	10	170	138	126	5.6	126	129	136
20	174	166	190	54	10	170	136	130	6.4	121	130	136
21	169	160	152	31	10	170	136	127	4.9	120	130	132
22	171	456	50	8.7	10	170	136	127	4.9	123	136	139
23	177	270	7.8	31	10	170	130	130	4.9	121	138	139
24	175	10	11	12	10	170	20	129	6.6	127	139	140
25	178	10	74	28	80	160	80	126	5.4	130	137	144
26	178	31	75	38	155	18	140	122	4.6	132	142	146
27	175	172	75	36	154	60	140	118	4.2	137	142	150
28	170	178	74	31	140	70	140	118	4.9	140	136	151
29	170	198	73	8.7	-----	190	180	118	4.9	142	136	151
30	172	166	73	31	-----	160	185	123	4.9	142	142	105
31	130	-----	75	136	-----	15	-----	131	-----	142	142	-----
TOTAL	4,825	3,885.6	4,162.8	11,979.4	3,048	5,467.0	4,082	4,588	2,271.4	3,804	4,073	4,009
MEAN	156	130	134	386	109	176	136	148	75.7	123	131	134
MAX	178	456	197	5,260	155	1,800	205	214	142	142	147	151
MIN	57	4.2	7.8	8.7	10	6.0	20	118	4.2	17	119	105
AC-FT	9,570	7,710	8,260	23,760	6,950	10,840	8,100	9,100	4,510	7,550	8,080	7,950
CAL YR 1973	TOTAL 64,028.4 MEAN 175 MAX 4,060 MIN 4.2 AC-FT 127,000											
WTR YR 1974	TOTAL 56,195.2 MEAN 154 MAX 5,260 MIN 4.2 AC-FT 111,500											

NOTE.--No gage-height record Feb. 16 to May 2.

LOCATION.--Lat 34°00'47", long 118°03'48", in Paso de Bartolo Grant, Los Angeles County, on right levee 460 ft (140 m) downstream from San Gabriel River Parkway, 4,200 ft (1,280 m) downstream from axis of Whittier Narrows Dam, and 1.4 mi (2.3 km) northeast of Pico Rivera.

PERIOD OF RECORD.--October 1928 to current year. Since 1954 Colorado River water released to San Gabriel River above station. Since 1954 records not equivalent.

GAGE.--Water-stage recorder. Datum of gage is 181.55 ft (55.336 m) above mean sea level. See WSP 1735 for history of changes prior to Mar. 6, 1952. Mar. 6, 1952, to Aug. 9, 1968, at bridge 0.5 mi (0.8 km) downstream at datum 9.05 ft (2.758 m) lower.

EXTREMES.--Current year: Maximum discharge, 6,170 ft³/s (175 m³/s) Jan. 4 (gage height, 5.34 ft or 1.628 m); minimum daily, 4.0 ft³/s (0.11 m³/s) June 25 to July 1.

Period of record: Maximum discharge, 22,700 ft³/s (643 m³/s) Mar. 2, 1938; no flow for periods in most years.

REMARKS.--Records poor. Flow regulated by Cogswell Reservoir since 1934 and San Gabriel flood-control reservoir since 1939, combined capacity, 46,087 acre-ft (56.8 hm³), Morris Reservoir since 1934, capacity, 35,000 acre-ft (43.2 hm³), Santa Fe flood-control reservoir since October 1942, capacity, 36,800 acre-ft (45.4 hm³), Whittier Narrows flood-control reservoir since January 1956, capacity, 36,160 acre-ft (44.6 hm³), and several small flood-control reservoirs, combined capacity, 19,100 acre-ft (23.6 hm³). Diversions for irrigation, power development, and ground-water replenishment. For Colorado River water released to San Gabriel River for ground-water replenishment see sta 11087020. During the current year, 4,650 acre-ft (5.73 hm³) was diverted from the San Gabriel River below Santa Fe Dam to Rio Hondo. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records furnished by Los Angeles County Flood Control District.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	57	58	80	46	33	10	78	57	4.0	86	127
2	62	54	12	6.0	47	493	219	80	55	23	57	125
3	58	47	8.8	54	46	100	8.8	80	60	54	62	92
4	55	50	64	1,600	46	15	14	78	65	55	58	39
5	55	52	71	647	46	32	15	84	62	57	50	21
6	60	44	71	1,580	44	37	14	67	94	57	29	60
7	60	33	71	3,640	43	257	15	74	106	58	19	129
8	62	23	69	1,060	42	1,460	14	69	67	65	29	129
9	62	64	69	88	42	25	14	69	62	67	34	133
10	64	69	69	29	43	15	17	78	64	60	34	50
11	62	69	69	14	44	10	30	28	64	60	34	22
12	80	62	69	16	50	10	47	29	58	64	38	21
13	50	7.0	71	15	64	31	43	27	65	65	43	21
14	46	5.4	71	24	73	37	40	26	71	70	46	20
15	27	9.0	67	52	58	43	44	25	78	78	57	21
16	46	74	69	58	47	49	57	28	80	76	80	20
17	58	116	71	130	50	50	60	39	54	48	98	54
18	54	294	71	22	30	49	67	58	8.0	16	102	127
19	57	31	69	18	5.7	55	69	60	7.0	16	69	127
20	57	76	71	41	5.7	50	69	108	6.0	11	55	127
21	60	76	76	36	8.4	46	67	138	6.0	7.4	55	127
22	60	180	53	20	9.5	43	96	136	5.0	7.4	57	125
23	62	243	16	32	8.8	44	116	136	5.0	7.1	86	118
24	67	17	16	23	7.8	46	24	88	5.0	12	116	116
25	67	16	73	30	7.8	62	6.0	43	4.0	9.2	127	120
26	69	12	64	40	49	16	76	38	4.0	31	102	127
27	67	40	55	40	65	69	80	31	4.0	49	80	127
28	67	52	55	37	85	16	76	40	4.0	49	69	127
29	65	67	52	16	-----	46	71	52	4.0	50	72	129
30	67	43	57	14	-----	37	76	57	4.0	72	108	92
31	69	-----	58	43	-----	12	-----	58	-----	102	122	-----
TOTAL	1,844	1,982.4	1,835.8	9,505.0	1,113.7	3,288	1,554.8	2,002	1,228.0	1,400.1	2,074	2,673
MEAN	59.5	66.1	59.2	307	39.8	106	51.8	64.6	40.9	45.2	66.9	89.1
MAX	80	294	76	3,640	85	1,460	219	138	106	102	127	133
MIN	27	5.4	8.8	6.0	5.7	10	6.0	25	4.0	4.0	19	20
AC-FT	3,660	3,930	3,640	18,850	2,210	6,520	3,080	3,970	2,440	2,780	4,110	5,300
CAL YR 1973	TOTAL	31,515.2	MEAN	86.3	MAX	2,540	MIN	5.4	AC-FT	62,510		
WTR YR 1974	TOTAL	30,500.8	MEAN	83.6	MAX	3,640	MIN	4.0	AC-FT	60,500		

11088000 SAN GABRIEL RIVER AT SPRING STREET, NEAR LOS ALAMITOS, CALIF.

LOCATION.--Lat 33°48'43", long 118°05'24", in SE¼SE¼NW¼ sec.24, T.4 S., R.12 W., Los Angeles County, on right levee 455 ft (139 m) upstream from Spring Street bridge, 1.3 mi (2.1 km) upstream from Coyote Creek, and 1.3 mi (2.1 km) northwest of Los Alamitos.

DRAINAGE AREA.--472 mi² (1,222 km²).

PERIOD OF RECORD.--October 1927 to September 1951, October 1952 to current year. Monthly discharge only for October 1927 to September 1936, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 11.87 ft (3.618 m) above mean sea level (levels by Los Angeles County Flood Control District). Prior to October 1952, at datum 4.82 ft (1.469 m) higher and October 1952 to Nov. 17, 1964, at site 455 ft (139 m) downstream at datum 0.38 ft (0.116 m) higher.

AVERAGE DISCHARGE.--46 years, 30.4 ft³/s (0.861 m³/s), 22,020 acre-ft/yr (27.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 6,000 ft³/s (170 m³/s) Jan. 7 (gage height, 7.35 ft or 2.240 m); minimum daily, 11 ft³/s (0.31 m³/s) Oct. 1, 2.
Period of record: Maximum discharge, 27,000 ft³/s (765 m³/s), estimated, Mar. 2, 1938; no flow at times in some years.

REMARKS.--Records poor. Regulation and diversions same as sta 11087500. Additional diversion to percolation basin near Washington Boulevard and percolation basins in streambed. AVERAGE DISCHARGE represents flow to ocean during period of record regardless of upstream development. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records furnished by Los Angeles County Flood Control District.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	50	86	28	37	38	14	54	46	44	35	46
2	11	52	48	15	26	512	106	51	45	45	46	46
3	14	28	40	37	14	46	46	54	41	47	51	31
4	48	14	45	1,530	14	31	48	35	18	45	41	44
5	40	15	40	524	16	14	50	18	17	38	43	45
6	29	15	42	1,030	14	14	28	50	45	42	43	44
7	14	16	42	3,690	39	161	16	51	43	39	43	44
8	14	50	26	1,360	39	1,430	16	54	29	41	39	32
9	13	50	13	82	24	117	16	54	17	44	39	31
10	14	27	13	47	14	41	18	54	17	45	40	42
11	48	14	13	42	14	32	50	53	17	45	39	44
12	40	21	14	42	14	14	50	51	22	45	40	43
13	29	50	35	42	15	16	30	52	44	46	38	40
14	14	49	35	43	40	42	16	53	42	43	44	41
15	13	50	21	42	40	42	27	50	31	40	44	30
16	13	54	13	42	25	27	52	51	14	44	42	32
17	13	99	12	62	15	15	55	52	15	48	43	35
18	48	167	12	41	16	15	41	32	15	45	41	43
19	48	50	14	25	14	15	43	15	31	47	46	36
20	27	15	38	39	15	17	30	16	33	46	46	42
21	12	16	37	35	40	42	18	16	33	42	48	40
22	12	161	49	14	40	42	17	27	15	45	49	21
23	22	369	15	29	39	27	18	50	15	46	49	20
24	13	50	15	38	38	14	18	46	15	40	47	42
25	48	51	14	40	30	15	56	42	28	38	48	44
26	50	41	16	25	15	16	54	42	33	40	41	45
27	29	14	40	13	15	58	52	43	31	42	47	32
28	14	16	40	13	53	47	54	43	30	41	48	39
29	13	50	25	14	-----	46	59	44	31	40	42	21
30	13	50	14	12	-----	27	52	45	30	40	47	29
31	13	-----	14	37	-----	14	-----	46	-----	39	44	-----
TOTAL	740	1,704	881	9,033	715	2,987	1,150	1,344	843	1,332	1,353	1,124
MEAN	23.9	56.8	28.4	291	25.5	96.4	38.3	43.4	28.1	43.0	43.6	37.5
MAX	50	369	86	3,690	53	1,430	106	54	46	48	51	46
MIN	11	14	12	12	14	14	14	15	14	38	35	20
AC-FT	1,470	3,380	1,750	17,920	1,420	5,920	2,280	2,670	1,670	2,640	2,680	2,230

CAL YR 1973 TOTAL 22,351 MEAN 61.2 MAX 2,710 MIN 11 AC-FT 44,330
WTR YR 1974 TOTAL 23,206 MEAN 63.6 MAX 3,690 MIN 11 AC-FT 46,030

SAN GABRIEL RIVER BASIN

11088500 BREA CREEK BELOW BREA DAM, NEAR FULLERTON, CALIF.

LOCATION.--Lat 33°53'16", long 117°55'32", in NE¼NE¼NE¼ sec.28, T.3 S., R.10 W., Orange County, on right bank 0.2 mi (0.3 km) downstream from Brea Dam, and 1 mi (2 km) north of Fullerton.

DRAINAGE AREA.--21.6 mi² (55.9 km²).

PERIOD OF RECORD.--January 1942 to current year.

GAGE.--Water-stage recorder. V-notch sharp-crested weir since October 1946. Datum of gage is 196.67 ft (59.945 m) above mean sea level (levels by Corps of Engineers). Prior to Dec. 4, 1964, at datum 1.03 ft (0.314 m) higher.

AVERAGE DISCHARGE.--32 years, 1.22 ft³/s (0.0346 m³/s), 884 acre-ft/yr (1.09 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 328 ft³/s (9.29 m³/s) Jan. 4 (gage height, 4.62 ft or 1.408 m); minimum daily, 0.11 ft³/s (0.003 m³/s) Feb. 1.
Period of record: Maximum discharge, 970 ft³/s (27.5 m³/s) Feb. 25, 1969 (gage height, 6.30 ft or 1.920 m), from rating curve extended above 340 ft³/s (9.63 m³/s); no flow for parts of some years.

REMARKS.--Records good. Flow regulated by Brea flood-control reservoir, capacity, 4,100 acre-ft (5.06 hm³). No diversion above station. Since August 1966 low flow mostly the result of irrigation waste water from golf course 0.8 mi (1.3 km) upstream. See schematic diagram of San Gabriel and Los Angeles River basins.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.22	.26	3.7	2.3	.11	.52	.28	.30	.35	.34	.27	.23
2	.18	.25	.41	.24	.18	52	6.4	.30	.30	.33	.28	.22
3	.18	.23	.17	.25	.20	7.0	.48	.33	.36	.38	.28	.22
4	.20	.24	.17	1.20	.20	1.3	.21	.33	.30	.32	.28	.19
5	.22	.31	.18	.22	.28	.64	.21	.37	.26	.29	.25	.22
6	.18	.25	.17	1.39	.20	.28	.20	.55	.28	.33	.45	.26
7	.19	.40	.18	2.22	.20	9.1	.21	.28	.31	.34	.21	.23
8	.23	.25	.18	1.64	.20	10.9	.21	.27	.24	.32	.15	.24
9	.24	.27	.18	1.1	.20	7.9	.21	.30	.21	.31	.18	.27
10	.20	.24	.20	3.4	.20	2.5	.26	.30	.18	.32	.15	.24
11	.21	.33	.19	1.9	.20	1.7	.23	.25	.21	.34	.18	.23
12	.26	.35	.19	1.3	.26	1.2	.31	.27	.21	.32	.18	.18
13	.23	.29	.19	.91	.20	.82	.28	.26	.19	.35	.20	.21
14	.24	.23	.21	.66	.18	.49	.21	.28	.26	.37	.19	.22
15	.27	.24	.19	.42	.22	.29	.24	.31	.20	.38	.16	.25
16	.25	.39	.21	.35	.21	.27	.27	.29	.18	.38	.21	.26
17	.26	14	.20	3.8	1.3	.25	.28	.49	.20	.38	.20	.29
18	.26	38	.20	.66	.26	.24	.24	.31	.18	.40	.20	.25
19	.30	.45	.18	.30	.28	.39	.28	.26	.20	.32	.18	.25
20	.24	.20	.19	4.9	.28	.33	.27	.25	.18	.26	.17	.24
21	.58	.30	.22	1.8	.26	.35	.24	.63	.21	.27	.19	.22
22	.48	11	2.0	.28	.27	.28	.25	.47	.20	.30	.19	.26
23	.55	28	.21	.28	.24	.25	.26	.55	.20	.43	.23	.31
24	.26	.40	.20	.22	.23	.25	.31	1.1	.21	.36	.23	.32
25	.24	.23	.21	.21	.26	.26	.34	.43	.27	.30	.23	.32
26	.29	.24	.21	.24	.40	.30	.36	.34	.30	.30	.21	.28
27	.26	.18	.22	.21	.33	3.1	.27	.34	.28	.28	.22	.22
28	.30	.17	.20	.22	.60	.37	.29	.68	.35	.29	.22	.28
29	.27	.18	.21	.20	-----	.23	.26	1.1	.33	.31	.20	.28
30	.27	.17	.23	.20	-----	.22	.29	.40	.30	.30	.21	.28
31	.29	-----	.21	.18	-----	.22	-----	.41	-----	.25	.23	-----
TOTAL	8.35	98.05	11.61	683.43	7.95	202.05	14.15	12.75	7.45	10.17	6.73	7.47
MEAN	.27	3.27	.37	22.0	.28	6.52	.47	.41	.25	.33	.22	.25
MAX	.58	38	3.7	202	1.3	10.9	6.4	1.1	.36	.43	.45	.32
MIN	.18	.17	.17	.18	.11	.22	.20	.25	.18	.25	.15	.18
AC-FT	17	194	23	1,360	16	401	28	25	15	20	13	15

CAL YR 1973 TOTAL 964.81 MEAN 2.64 MAX 191 MIN .17 AC-FT 1,910
WTR YR 1974 TOTAL 1,070.16 MEAN 2.93 MAX 202 MIN .11 AC-FT 2,120

11089500 FULLERTON CREEK BELOW FULLERTON DAM, NEAR BREA, CALIF.

LOCATION.--Lat 33°53'45", long 117°53'07", in NE&NW&SW¼ sec.24, T.3 S., R.10 W., Orange County, on left bank of outlet channel of Fullerton Dam, 1.6 mi (2.6 km) southeast of Brea.

DRAINAGE AREA.--4.94 mi² (12.79 km²).

PERIOD OF RECORD.--October 1941 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 250 ft (76 m), from topographic map. V-notch sharp-crested weir used Oct. 25, 1946, to Feb. 2, 1956. Prior to Dec. 3, 1971, at datum 3.00 ft (0.914 m) higher.

AVERAGE DISCHARGE.--13 years (1941-54), 0.19 ft³/s (0.0054 m³/s), 135 acre-ft/yr (166,000 m³/yr); 20 years (1954-74), 0.54 ft³/s (0.0153 m³/s), 391 acre-ft/yr (482,000 m³/yr).

EXTREMES.--Current year: Maximum discharge, 259 ft³/s (7.33 m³/s) Jan. 7 (gage height, 6.92 ft or 2.109 m); no flow some days.

Period of record: Maximum discharge, 313 ft³/s (8.86 m³/s) Jan. 25, 1969 (gage height, 7.32 ft or 2.231 m, present datum); no flow at times in each year.

REMARKS.--Records good. Flow regulated by Fullerton flood-control reservoir, capacity, 706 acre-ft (870,000 m³). Small tributary formerly entering below station diverted into reservoir since December 1954. See schematic diagram of San Gabriel and Los Angeles River basins.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	2.1	.86	.12	.19	.15	.05	.10	.04	0	.02
2	.01	0	.10	0	.11	16	3.2	.14	.08	.02	0	.02
3	.01	0	.04	0	.09	5.9	.09	.17	.07	.04	0	0
4	0	0	.03	5.4	.07	.09	.07	.13	.05	.04	0	.02
5	0	0	.01	12	.07	.09	.05	.22	.06	.02	0	.02
6	0	0	0	11	.05	.09	.05	.40	.07	.02	0	.01
7	0	0	0	92	.03	3.2	.05	.19	.07	.02	0	0
8	0	0	0	36	.03	15	.05	.16	.07	.01	0	.03
9	0	0	0	22	.03	15	.05	.11	.05	.01	0	.02
10	0	0	0	1.6	.02	9.5	.05	.09	.07	0	0	.01
11	0	0	0	.01	.02	.52	.05	.09	.05	0	0	.06
12	0	.16	0	0	.02	.12	.05	.09	.05	0	0	.04
13	0	.02	0	0	.02	.09	.05	.09	.05	0	0	.03
14	0	0	0	0	.03	.09	.05	.09	.04	.01	0	.03
15	0	0	0	0	.03	.07	.05	.08	.03	.01	0	.03
16	0	0	0	.01	.03	.09	.05	.07	.03	0	.03	.02
17	0	.82	0	.72	.33	.07	.06	.07	.03	0	.01	.02
18	0	4.2	0	.07	.16	.07	.07	.07	.02	0	.02	.03
19	0	.14	0	.02	.15	.07	.07	.07	.02	0	0	.05
20	0	.05	0	.62	.14	.07	.07	.05	.01	0	0	.04
21	0	.04	0	.07	.10	.05	.07	.05	.01	0	0	.06
22	0	.03	.36	.03	.09	.09	.05	.13	.01	0	0	.02
23	0	6.7	.04	.03	.08	.09	.05	.12	.01	0	0	.01
24	0	.08	.03	.02	.05	.09	.05	.12	0	0	0	0
25	0	.03	.01	.04	.04	.07	.05	.12	0	0	0	.05
26	0	.02	0	.03	.04	.07	.05	.16	0	0	0	.09
27	0	.01	0	.03	.04	1.0	.05	.12	0	0	0	.05
28	0	0	0	.03	.24	.07	.05	.09	.01	0	0	.05
29	0	0	0	.05	-----	.05	.05	.10	.01	0	0	.03
30	0	0	.02	1.8	-----	.09	.05	.08	.01	0	.02	.03
31	0	-----	.09	.12	-----	.12	-----	.07	-----	.01	.02	-----
TOTAL	.02	12.30	2.83	184.56	2.23	68.11	4.90	3.59	1.08	.25	.10	.89
MEAN	.0006	.41	.091	5.95	.080	2.20	.16	.12	.036	.008	.003	.030
MAX	.01	6.7	2.1	92	.33	16	3.2	.40	.10	.04	.03	.09
MIN	0	0	0	0	.02	.05	.05	.05	0	0	0	0
AC-FT	.04	24	5.6	366	4.4	135	9.7	7.1	2.1	.5	.2	1.8

CAL YR 1973 TOTAL 226.70 MEAN .62 MAX 19 MIN 0 AC-FT 450
WTR YR 1974 TOTAL 280.86 MEAN .77 MAX 92 MIN 0 AC-FT 557

LOCATION.--Lat 33°51'45", long 117°55'55", in NW¼SW¼SE¼ sec.33, T.3 S., R.10 W., Orange County, on right bank 125 ft (38 m) east of Richman Avenue, at Fullerton.

PERIOD OF RECORD.--October 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 126.4 ft (38.527 m) above mean sea level (levels by Orange County Flood Control District).

EXTREMES.--Current year: Maximum discharge, 695 ft³/s (19.7 m³/s) Jan. 7 (gage height, 4.65 ft or 1.417 m); no flow many days.

Period of record: Maximum discharge, 1,100 ft³/s (31.2 m³/s) Jan. 25, 1969 (gage height, 4.78 ft or 1.457 m); no flow many days in each year.

REMARKS.--Records fair. Flow regulated by Fullerton flood-control reservoir, capacity, 706 acre-ft (870,000 m³).
No diversion above station. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records furnished by Orange County Flood Control District.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	9.8	3.3		0	0	.10	0	.20	.20	.30
2	0	0	.70	.10		69	0	.10	0	.20	.20	.30
3	0	0	.10	.30		12	0	.10	0	.20	.20	.20
4	0	0	0	88		1.4	0	.10	0	.20	.20	.30
5	0	0	0	20		.30	0	.10	0	.20	.20	.20
6	0	0	0	77		.10	0	.20	0	.20	.20	.20
7	0	0	0	218		.80	0	.10	0	.20	.20	.20
8	0	0	0	85		22	0	.10	0	.20	.20	.20
9	0	0	0	33		18	0	.10	0	.20	.20	.20
10	0	.10	0	18		11	0	.10	0	.20	.10	.20
11	0	.10	0	3.4		4.2	0	.10	0	.20	.10	.20
12	.20	.10	0	2.7		.90	0	.10	.10	.20	.20	.20
13	.40	.20	0	.50		.50	0	.10	.10	.20	.20	.20
14	.40	0	0	.30		.20	0	.10	.10	.20	.20	.30
15	.40	0	0	.20		.10	0	.10	0	.20	.20	.20
16	.20	3.8	0	.10		.10	0	.10	0	.20	.40	.20
17	.20	10	0	.10		.10	0	.10	0	.20	.40	.20
18	.40	18	.10	.10		.10	0	.10	0	.20	.30	.30
19	.40	.10	0	.10		0	0	.10	0	.20	.20	.20
20	.40	0	.10	.10		0	0	.10	0	.20	.20	.20
21	.40	.30	.10	.10		0	0	.10	0	.20	.20	.10
22	.20	26	4.0	.10		0	0	.10	0	.20	.40	.10
23	.80	8.6	.10	.10		0	.10	.10	0	.20	.40	1.0
24	.10	0	0	.10		0	.10	.10	0	.20	.30	2.0
25	.10	0	0	0		0	.10	.10	0	.20	.20	.20
26	0	0	0	0		0	.10	.10	.10	.20	.20	.30
27	0	0	0	0		0	.10	.10	.20	.20	.30	.40
28	.10	.10	0	0		0	.10	0	.30	.20	.20	.30
29	0	0	0	0	-----	0	.10	0	.30	.20	.20	.30
30	.10	.10	0	0	-----	0	.10	0	.20	.20	.40	.20
31	0	-----	0	0	-----	0	-----	0	-----	.20	.30	-----
TOTAL	4.80	67.50	15.00	550.70	0	140.80	.80	2.80	1.40	6.20	7.40	9.40
MEAN	.15	2.25	.48	17.8	0	4.54	.027	.090	.047	.20	.24	.31
MAX	.80	26	9.8	218	0	69	.10	.20	.30	.20	.40	2.0
MIN	0	0	0	0	0	0	0	0	0	.20	.10	.10
AC-FT	9.5	134	30	1,090	0	279	1.6	5.6	2.8	12	15	19
CAL YR 1973	TOTAL 959.50		MEAN 2.63	MAX 136	MIN 0	AC-FT 1,900						
WTR YR 1974	TOTAL 806.80		MEAN 2.21	MAX 218	MIN 0	AC-FT 1,600						

11090700 COYOTE CREEK AT LOS ALAMITOS, CALIF.

LOCATION.--Lat 33°48'38", long 118°04'28", in NW¼NE¼SW¼ sec.19, T.4 S., R.11 W., Orange County, on right bank about 250 ft (76 m) downstream from Spring Street, 0.5 mi (0.8 km) northwest of Los Alamitos.

DRAINAGE AREA.--150 mi² (388 km²), revised.

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 7.37 ft (2.246 m) above mean sea level (levels by Los Angeles County Flood Control District).

AVERAGE DISCHARGE.--11 years, 35.7 ft³/s (1.011 m³/s), 25,860 acre-ft/yr (31.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 8,670 ft³/s (246 m³/s) Jan. 7 (gage height, 5.55 ft or 1.692 m); minimum daily, 2.3 ft³/s (0.065 m³/s) Feb. 3.

Period of record: Maximum discharge, 11,300 ft³/s (320 m³/s) Jan. 20, 1969 (gage height, 6.38 ft or 1.945 m); no flow Jan. 25, Feb. 15-17, 1964.

REMARKS.--Records poor. Flows up to 100 ft³/s (2.83 m³/s) can be diverted from present Carbon Creek channel to Coyote Creek through the original Carbon Creek channel. Flow partially regulated by Carbon Canyon, Brea and Fullerton flood-control reservoirs, combined capacity, 11,840 acre-ft (14.6 hm³). AVERAGE DISCHARGE represents flow to ocean during period of record, regardless of upstream development. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records furnished by Los Angeles County Flood Control District.

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	4.3	173	140	5.2	19	10	5.5	4.6	6.2	8.1	6.2
2	4.8	4.3	6.7	8.8	3.4	1,210	93	5.5	5.2	7.4	10	10
3	4.8	4.3	6.7	8.8	2.3	125	10	10	5.5	6.2	10	9.4
4	4.8	4.3	6.7	1,710	3.4	11	8.1	4.0	6.2	4.6	12	9.4
5	4.8	4.3	6.7	279	2.8	6.8	8.1	4.3	6.8	8.8	16	8.8
6	4.8	4.3	6.7	851	4.3	6.2	9.4	12	7.4	4.0	12	9.4
7	4.8	4.3	6.7	2,410	4.3	285	9.4	4.9	4.8	4.3	13	10
8	4.8	4.3	6.7	822	4.9	1,530	11	4.0	7.4	4.0	11	11
9	4.8	6.2	6.7	105	4.9	46	6.8	4.0	6.8	4.3	11	8.8
10	4.8	6.2	6.7	22	5.2	24	6.2	4.6	6.8	4.0	8.8	9.4
11	4.8	5.5	6.7	12	7.4	27	7.4	2.4	6.8	6.8	10	10
12	4.8	5.2	6.7	7.4	4.6	8.1	8.1	3.4	6.8	4.3	9.4	6.8
13	4.8	4.6	6.7	7.4	5.5	11	8.1	3.4	3.7	4.6	9.4	7.4
14	4.8	5.2	6.7	6.2	6.2	11	9.4	5.5	4.9	4.3	6.8	6.2
15	4.8	4.3	3.7	7.4	5.5	11	8.8	8.8	5.2	4.6	6.8	6.8
16	4.8	25	3.4	12	5.2	12	7.4	7.4	4.3	5.5	6.8	6.2
17	4.8	215	3.4	80	4.9	12	11	8.1	5.2	6.2	9.4	4.6
18	4.8	264	2.8	8.8	5.5	11	5.2	5.2	5.2	4.4	7.4	7.4
19	4.8	11	6.7	6.2	5.5	12	6.8	7.4	4.9	9.4	11	7.4
20	4.8	6.2	6.7	39	5.5	12	7.4	11	5.5	8.1	7.4	6.2
21	4.8	21	6.7	15	5.5	10	8.1	16	6.2	11	9.4	5.5
22	4.8	414	140	17	6.8	7.4	8.8	11	5.2	11	5.2	6.8
23	8.8	439	6.7	15	5.5	6.8	8.8	36	4.9	9.4	6.8	8.8
24	4.8	4.1	6.7	15	4.9	8.1	8.1	3.4	5.5	8.1	7.4	8.1
25	4.8	6.2	6.7	9.4	4.6	8.1	8.8	2.8	6.8	7.4	5.5	9.4
26	4.8	5.5	6.7	5.5	5.2	9.4	6.8	3.7	5.5	8.1	5.5	6.2
27	4.8	5.5	6.7	4.9	5.5	142	8.1	4.0	6.2	8.8	6.8	7.4
28	4.8	6.8	6.7	4.4	4.9	12	7.4	5.5	7.4	5.2	6.8	8.1
29	4.8	5.5	6.7	5.5	-----	10	6.8	4.0	6.8	5.5	7.4	6.2
30	4.8	6.8	6.7	4.3	-----	9.4	6.2	4.3	6.8	12	8.1	6.8
31	4.8	-----	6.7	5.5	-----	9.4	-----	4.0	-----	4.4	5.5	-----
TOTAL	232.0	1,366.2	543.8	6,444.5	228.2	3,702.7	329.5	216.5	181.3	212.9	271.7	234.7
MEAN	7.42	45.5	17.5	208	8.15	119	11.0	6.94	6.04	6.87	8.76	7.82
MAX	88	414	190	2,410	4.9	1,530	93	36	9.8	12	16	11
MIN	4.8	4.3	2.8	4.3	2.3	6.2	5.2	2.8	3.7	4.0	5.5	4.6
AC-FT	460	2,710	1,080	12,780	453	7,340	654	429	360	422	539	466

CAL YR 1973 TOTAL 17,218.1 MEAN 47.2 MAX 2,350 MIN 2.8 AC-FT 34,150
 WTR YR 1974 TOTAL 13,964.0 MEAN 44.3 MAX 2,410 MIN 2.3 AC-FT 27,700

LOS ANGELES RIVER BASIN

11092450 LOS ANGELES RIVER AT SEPULVEDA DAM, CALIF.

LOCATION.--Lat 34°09'42", long 118°27'57", in Ex Mission de San Fernando Grant, Los Angeles County, on right bank of outlet channel of Sepulveda Dam, 200 ft (61 m) upstream from Sepulveda Boulevard in city of Los Angeles, and 1.8 mi (2.9 km) southwest of Van Nuys.

DRAINAGE AREA.--158 mi² (409 km²).

PERIOD OF RECORD.--January 1929 to February 1938, May 1938 to current year. See WSP 1315-B, 1735 for history of records prior to September 1950.

GAGE.--Water-stage recorder. Datum of gage is 652.7 ft (198.94 m) above mean sea level. See WSP 1735 for history of changes prior to Aug. 29, 1953.

AVERAGE DISCHARGE.--44 years (1929-37, 1938-74), 30.8 ft³/s (0.872 m³/s), 22,310 acre-ft/yr (27.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 9,970 ft³/s (282 m³/s) Jan. 7 (gage height, 9.11 ft or 2.777 m); minimum daily, 3.2 ft³/s (0.091 m³/s) Sept. 13.

Period of record: Maximum discharge, 13,800 ft³/s (391 m³/s) Jan. 25, 1969 (gage height, 11.42 ft or 3.481 m); no flow Sept. 19, 20, 1930.

Flood of Mar. 2, 1938, estimated to be 12,000 ft³/s (340 m³/s).

REMARKS.--Records good. Flow regulated since December 1941 by Sepulveda flood-control reservoir, capacity, 17,400 acre-ft (21.5 hm³). Some diversion above station. At times city of Los Angeles discharges imported Owens River water into Los Angeles River from upstream distributing reservoirs. No discharges of imported water reported during current year. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records of released water from reservoirs furnished by city of Los Angeles.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.9	8.0	490	44	7.5	24	7.4	11	7.6	8.6	6.3	8.4
2	7.9	7.5	15	5.7	6.7	817	56	9.7	8.5	9.0	7.1	7.8
3	8.3	7.9	10	5.9	6.1	190	7.4	10	8.5	8.8	6.0	9.1
4	7.9	7.5	4.6	1,940	7.2	13	6.9	10	7.4	8.6	5.5	8.9
5	8.7	7.9	4.2	462	7.4	7.4	8.5	11	7.8	7.9	6.7	7.7
6	8.4	7.5	4.2	1,540	5.7	6.8	8.1	12	9.7	7.8	7.4	4.9
7	9.0	8.0	4.2	5,340	6.4	458	7.9	12	9.2	12	6.9	4.3
8	25	8.3	4.2	498	6.0	1,440	8.5	12	9.4	6.8	5.9	4.0
9	5.6	8.9	4.2	86	6.3	46	7.4	12	9.4	7.1	6.4	4.8
10	4.5	9.4	4.6	50	7.4	25	7.4	12	10	6.0	6.4	5.2
11	4.8	11	5.4	30	7.9	19	7.4	13	11	7.1	6.4	4.3
12	5.2	11	5.9	26	7.4	18	7.9	14	8.4	7.3	7.4	3.7
13	5.6	11	5.9	17	7.4	12	7.9	14	8.6	7.3	6.9	3.2
14	6.2	10	6.4	11	7.2	7.9	7.4	15	8.5	8.1	7.4	3.3
15	6.4	11	6.9	9.7	7.6	7.4	6.9	15	8.2	7.4	6.9	3.3
16	5.8	15	7.9	40	8.8	8.1	7.9	14	8.1	7.4	7.4	3.5
17	5.8	135	7.9	150	7.6	8.7	7.4	15	7.8	8.3	7.9	4.0
18	6.1	385	6.4	15	7.3	8.8	6.9	15	8.4	8.4	9.1	4.1
19	6.3	4.5	6.9	7.4	8.3	8.1	6.9	15	8.3	7.8	9.1	4.3
20	6.3	3.5	6.9	94	6.6	7.9	7.9	15	9.1	8.6	9.1	4.7
21	6.0	4.9	7.4	15	6.6	8.5	7.9	14	8.6	8.5	9.1	5.2
22	5.7	399	154	8.0	8.2	9.1	7.9	14	8.7	8.2	8.5	5.7
23	16	73	5.0	8.0	7.2	8.5	7.4	13	8.6	9.1	7.9	6.1
24	4.7	4.5	4.6	8.0	7.3	8.5	24	13	8.8	7.2	8.5	6.1
25	5.3	4.1	4.6	7.5	7.7	9.1	7.4	12	8.0	7.3	9.1	5.3
26	8.5	3.8	5.0	7.5	8.5	8.0	6.9	12	8.8	7.6	8.4	5.7
27	7.8	3.9	6.9	7.5	10	176	8.5	11	11	7.2	9.0	4.5
28	8.1	4.3	7.9	7.5	16	10	9.1	11	9.2	6.8	9.4	4.8
29	8.3	3.9	5.4	7.3	-----	8.5	8.5	9.7	8.9	7.3	9.0	6.2
30	6.7	3.8	5.4	7.3	-----	52	9.7	9.9	8.0	6.5	8.8	5.7
31	7.1	-----	5.0	8.3	-----	10	-----	7.8	-----	6.5	8.9	-----
TOTAL	236.9	1,183.1	822.9	10,463.6	214.3	3,441.3	297.3	384.1	262.5	242.5	238.8	158.8
MEAN	7.64	39.4	26.5	338	7.65	111	9.91	12.4	8.75	7.82	7.70	5.29
MAX	25	399	490	5,340	16	1,440	56	15	11	12	9.4	9.1
MIN	4.5	3.5	4.2	5.7	5.7	6.8	6.9	7.8	7.4	6.0	5.5	3.2
AC=FT	470	2,350	1,630	20,750	425	6,830	590	762	521	481	474	315
CAL YR 1973	TOTAL 23,768.7											
WTR YR 1974	TOTAL 17,946.1			MEAN 65.1	MAX 4,410	MIN 3.5	AC=FT 47,150					
				MEAN 49.2	MAX 5,340	MIN 3.2	AC=FT 35,600					

LOCATION.--Lat 34°20'07", long 118°23'50", in SE4NE4 sec.24, T.3 N., R.15 W., Los Angeles County, on right bank 500 ft (152 m) downstream from Pacoima Dam, 0.3 mi (0.5 km) upstream from mouth of canyon, and 4 mi (6 km) northeast of San Fernando.

COOPERATION.--Records furnished by Los Angeles County Flood Control District.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.60	1.1	.10	6.7	3.8	8.9	3.7	2.4	.10	.10	.10
2	.10	.60	1.3	.10	6.7	26	8.2	3.6	2.4	.10	.10	.10
3	.10	.60	1.3	.10	5.4	9.0	8.2	3.4	2.3	.10	.10	.10
4	.20	.60	1.3	.10	4.8	12	8.2	3.4	2.3	.10	.10	.10
5	.60	.60	1.3	1.8	4.8	12	8.2	3.1	2.3	.10	.10	.10
6	.60	.60	1.3	13	4.8	12	7.7	3.1	2.2	.10	3.3	.10
7	.60	.60	1.3	123	4.8	12	6.6	3.1	2.2	.10	.10	.10
8	.60	3.4	1.3	205	4.8	51	6.6	3.1	2.2	.10	.10	.10
9	2.2	.60	1.3	64	4.6	50	6.6	3.1	2.2	.10	.10	.10
10	1.4	.60	1.3	51	4.6	29	7.1	3.1	2.2	.10	.10	.50
11	1.0	.60	1.3	37	4.6	42	7.1	2.9	2.2	.10	.10	.50
12	1.4	.60	1.3	13	4.6	52	7.1	2.9	2.2	.10	.10	5.9
13	1.0	.60	1.3	12	4.6	22	7.7	3.1	2.2	.10	.10	11
14	1.0	.60	1.3	16	4.6	22	7.7	2.9	2.2	.10	.10	5.9
15	2.2	.60	1.3	17	4.6	22	7.1	2.9	2.2	.10	.10	.10
16	1.6	.60	1.3	17	4.6	22	7.1	2.9	2.2	.10	.10	.10
17	1.0	.60	1.3	21	4.6	22	7.4	2.9	2.2	.10	.10	.10
18	1.0	7.6	1.3	43	4.6	22	7.1	2.8	2.0	.10	.10	.10
19	1.0	.60	1.3	30	4.6	22	5.1	2.6	2.0	.10	.10	.10
20	1.0	.70	.90	30	4.6	14	3.3	2.4	2.0	.10	.10	.10
21	1.6	.60	.90	30	4.6	10	3.3	2.4	.10	.10	.10	.10
22	1.0	.60	.90	24	4.2	14	3.7	2.3	.30	.10	.10	.10
23	1.2	.60	.90	20	4.2	17	3.5	2.3	.20	.10	.10	.10
24	1.8	.60	.90	19	4.2	17	3.6	2.4	.20	.10	.10	.10
25	1.8	.60	.90	16	4.2	17	3.6	2.4	.20	.10	.10	.10
26	1.8	.60	.90	14	4.5	17	3.7	2.4	.20	.10	.10	.10
27	.60	.60	.90	14	4.5	17	3.7	2.4	.20	.10	.10	.10
28	.60	.60	.90	14	4.5	17	3.7	2.4	.20	.10	.10	.10
29	.60	.60	.90	9.1	-----	14	3.7	2.4	.10	.10	.10	.10
30	.60	.60	.90	6.7	-----	11	3.7	2.4	.10	.10	.10	.10
31	.60	-----	.50	6.7	-----	11	-----	2.4	-----	.10	.10	-----
TOTAL	31.50	27.90	34.90	867.70	132.9	640.8	179.2	87.2	45.90	3.10	6.30	26.30
MEAN	1.02	.93	1.13	28.0	4.75	20.7	5.97	2.81	1.53	.10	.20	.88
MAX	2.2	7.6	1.3	205	6.7	52	8.9	3.7	2.4	.10	3.3	11
MIN	.10	.60	.50	.10	4.2	3.8	3.3	2.3	.10	.10	.10	.10
AC-FT	62	55	69	1,720	264	1,270	355	173	91	6.1	12	52
CAL YR 1973	TOTAL 4,058.90		MEAN 11.1	MAX 680	MIN .10	AC-FT 8,050						
WTR YR 1974	TOTAL 2,083.70		MEAN 5.71	MAX 205	MIN .10	AC-FT 4,130						

11095500 TUJUNGA CREEK NEAR SUNLAND, CALIF.

LOCATION.--Lat 34°18'02", long 118°16'04", in SW¼NW¼SW¼ sec.32, T.3 N., R.13 W., Los Angeles County, on left bank 1,000 ft (305 m) upstream from Gold Canyon, 2 mi (3 km) upstream from mouth of canyon, and 4 mi (6 km) north-east of Sunland.

DRAINAGE AREA.--106 mi² (275 km²).

PERIOD OF RECORD.--October 1916 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,571.80 ft (479.085 m) above mean sea level (levels by Los Angeles County Flood Control District). Prior to Oct. 1, 1932, at site 1,000 ft (305 m) upstream at different datum.

AVERAGE DISCHARGE.--57 years (1917-74), 28.9 ft³/s (0.818 m³/s), 20,940 acre-ft/yr (25.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 336 ft³/s (9.52 m³/s) Jan. 7 (gage height, 7.75 ft or 2.362 m); minimum daily, 1.0 ft³/s (0.028 m³/s) Sept. 1, 17, 18, 21, 22.
Period of record: Maximum discharge, 50,000 ft³/s (1,420 m³/s), estimated, Mar. 2, 1938; minimum, 0.10 ft³/s (0.003 m³/s) at times in some years.

REMARKS.--Records poor. Flow regulated since July 1931 by Big Tujunga flood-control reservoir, capacity, 3,819 acre-ft (4.71 hm³). Several small diversions above station for irrigation. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records furnished by Los Angeles County Flood Control District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	4.1	9.3	3.2	16	8.6	24	8.1	9.2	7.9	4.1	1.0
2	9.7	3.6	6.2	2.9	16	14	26	12	8.6	7.8	4.1	1.6
3	7.1	3.6	4.1	2.9	16	28	23	12	8.6	7.7	4.1	1.6
4	5.8	3.6	3.2	27	15	14	22	12	8.6	7.6	4.1	1.6
5	5.8	2.9	3.2	22	14	12	22	12	9.2	7.5	4.1	2.2
6	5.8	2.6	2.9	66	15	13	22	12	9.2	7.5	4.1	1.9
7	5.8	2.6	2.6	235	15	35	22	12	9.2	7.5	4.1	1.9
8	5.4	2.6	2.6	156	15	122	22	12	9.2	7.5	4.1	1.6
9	5.4	7.5	2.6	56	15	50	22	12	9.2	7.5	4.1	1.6
10	11	8.1	2.6	53	15	40	22	11	9.2	4.9	4.1	1.6
11	11	8.1	2.9	48	16	33	22	11	9.2	4.5	4.1	1.6
12	11	7.1	3.2	45	17	29	20	11	9.2	4.1	4.1	1.9
13	11	7.5	3.2	43	17	25	19	11	9.2	4.1	4.1	2.6
14	11	6.6	3.2	41	16	24	18	11	9.2	4.1	4.1	2.2
15	11	2.9	3.2	37	16	24	16	11	8.6	4.1	4.1	2.2
16	11	2.2	3.2	37	16	24	16	11	8.6	3.6	4.1	1.6
17	11	3.2	3.2	40	16	24	16	10	8.1	3.6	4.1	1.0
18	11	31	3.6	37	15	25	14	9.7	8.1	3.6	4.1	1.0
19	11	6.2	4.1	36	15	24	9.2	9.7	8.1	3.2	3.6	1.3
20	11	3.6	3.6	41	15	23	8.6	9.2	8.1	3.6	3.6	1.3
21	11	2.6	3.6	38	15	23	8.1	9.2	8.6	3.6	3.6	1.0
22	10	3.6	5.4	41	15	23	7.5	10	8.6	4.1	3.6	1.0
23	10	6.5	4.1	57	15	23	9.7	11	7.5	4.1	3.2	1.3
24	10	3.6	3.6	56	14	23	9.7	11	7.5	4.5	3.2	1.6
25	9.7	2.9	3.6	55	14	23	9.7	9.2	7.5	4.5	3.2	13
26	9.2	2.6	3.2	53	14	23	8.6	8.6	7.5	4.5	3.2	35
27	9.2	2.2	3.2	53	13	25	8.6	9.2	7.5	4.1	2.9	35
28	8.6	8.6	3.2	53	13	23	8.6	9.7	7.5	4.2	2.6	35
29	8.6	5.8	3.2	52	-----	23	8.6	9.7	7.5	4.4	2.6	34
30	9.7	3.2	2.9	52	-----	23	8.6	9.7	8.1	4.6	1.6	34
31	5.8	-----	2.6	34	-----	23	-----	9.2	-----	4.7	1.3	-----
TOTAL	284.6	161.2	111.3	1,573.0	424	846.6	473.5	326.2	254.4	159.2	112.0	224.2
MEAN	9.18	5.37	3.59	50.7	15.1	27.3	15.8	10.5	8.48	5.14	3.61	7.47
MAX	11	31	9.3	235	17	122	26	12	9.2	7.9	4.1	35
MIN	5.4	2.2	2.6	2.9	13	8.6	7.5	8.1	7.5	3.2	1.3	1.0
AC-FT	565	320	221	3,120	841	1,680	939	647	505	316	222	445
CAL YR 1973	TOTAL	10,378.60	MEAN	28.4	MAX	970	MIN	.30	AC-FT	20,590		
WTR YR 1974	TOTAL	4,950.20	MEAN	13.6	MAX	235	MIN	1.0	AC-FT	9,820		

11097000 TUJUNGA CREEK BELOW HANSEN DAM, CALIF.

LOCATION.--Lat 34°15'13", long 118°23'17", in Ex-Mission San Fernando Grant, Los Angeles County, in city of Los Angeles, on left bank of outlet channel of Hansen Dam, 0.1 mi (0.2 km) upstream from Glen Oaks Boulevard, and 3 mi (5 km) southeast of San Fernando.

DRAINAGE AREA.--153 mi² (396 km²).

PERIOD OF RECORD.--May 1932 to February 1938, August 1940 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 943.32 ft (287.524 m) above mean sea level (Corps of Engineers bench mark). See WSP 1735 for history of changes prior to Oct. 1, 1953.

EXTREMES.--Current year: Maximum discharge, 71 ft³/s (2.01 m³/s) Feb. 8 (gage height, 1.25 ft or 0.381 m); no flow most of year.

Period of record: Maximum discharge, 11,700 ft³/s (331 m³/s) Feb. 25, 1969 (gage height, 7.36 ft or 2.243 m), from rating curve extended above 5,000 ft³/s (142 m³/s) on basis of gate openings at dam; no flow for all or parts of each year.

Maximum discharge since May 1932, 54,000 ft³/s (1,530 m³/s), estimated, Mar. 2, 1938.

REMARKS.--Records fair. Flow regulated since July 1931 by Big Tujunga flood-control reservoir, capacity, 4,240 acre-ft (5.23 hm³) and since September 1940 by Hansen flood-control reservoir, capacity, 29,700 acre-ft (36.6 hm³). Several small diversions for domestic use and irrigation. Water reported herein is that which passed Hansen Dam. Los Angeles County Flood Control District diverts 0.3 mi (0.5 km) upstream from gage to spreading grounds. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records of diversion furnished by Los Angeles County Flood Control District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	1.5	0	0	0	0					
2		0	1.1	0	0	0	0					
3		0	0	0	0	0	0					
4		0	0	.13	0	0	.13					
5		0	0	.01	0	0	0					
6		0	0	.13	0	0	0					
7		0	0	.44	0	0	0					
8		0	0	.04	.75	0	0					
9		0	0	0	0	0	0					
10		0	0	0	0	0	0					
11		0	0	0	0	0	0					
12		0	0	0	0	0	0					
13		0	0	0	0	0	0					
14		0	0	0	0	0	0					
15		0	0	0	0	0	0					
16		0	0	.13	0	0	0					
17		.52	0	0	0	0	0					
18		2.1	0	0	0	0	0					
19		.89	0	0	0	0	0					
20		.50	0	0	0	0	0					
21		.40	0	0	0	0	0					
22		1.7	0	0	0	0	0					
23		1.3	0	0	0	0	0					
24		1.0	0	0	0	0	0					
25		.50	0	0	0	0	0					
26		.37	0	0	0	0	0					
27		.14	0	0	0	.01	0					
28		.10	0	0	0	0	0					
29		0	0	0	-----	0	0					
30		0	0	0	-----	0	0					
31		-----	0	0	-----	0	-----		-----			-----
TOTAL	0	9.52	2.6	.98	.75	.01	.13	0	0	0	0	0
MEAN	0	.32	.084	.032	.027	.0003	.004	0	0	0	0	0
MAX	0	2.1	1.5	.44	.75	.01	.13	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	19	5.2	1.9	1.5	.02	.3	0	0	0	0	0
(a)	0	19	5.2	2,750	1,320	1,040	1,180	0	0	0	0	0

CAL YR 1973 TOTAL 1,656.91 MEAN 4.54 MAX 272 MIN 0 AC-FT 3,290 AC-FT a 15,050
 WTR YR 1974 TOTAL 13.99 MEAN .03 MAX 2.1 MIN 0 AC-FT 28 AC-FT a 6,310

a Combined discharge, in acre-feet, of creek and diversion.

11098000 ARROYO SECO NEAR PASADENA, CALIF.

LOCATION.--Lat 34°13'20", long 118°10'36", in NW¼NW¼NE¼ sec.31, T.2 N., R.12 W., Los Angeles County, on right bank 1.5 mi (2.4 km) upstream from Millard Canyon, and 5.5 mi (8.8 km) northwest of Pasadena.

DRAINAGE AREA.--16.0 mi² (41.4 km²).

PERIOD OF RECORD.--December 1910 to current year.

GAGE.--Water-stage recorder. Broad-crested weir since November 1938. Datum of gage is 1,397.88 ft (426.074 m) above mean sea level. Prior to Oct. 1, 1916, nonrecording gage at different datum. Oct. 1, 1916, to Oct. 19, 1945, water-stage recorder at datum 4.00 ft (1.219 m) lower.

AVERAGE DISCHARGE.--60 years (1913-15, 1916-74), 9.43 ft³/s (0.267 m³/s), 6,830 acre-ft/yr (8.42 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 390 ft³/s (11.0 m³/s) Mar. 8 (gage height, 3.22 ft or 0.981 m); minimum daily, 0.58 ft³/s (0.016 m³/s) Sept. 22, 23.

Period of record: Maximum discharge, 8,620 ft³/s (244 m³/s) Mar. 2, 1938 (gage height, 9.42 ft or 2.871 m, present datum), on basis of slope-area measurement of maximum flow; no flow at times in some years.

REMARKS.--Records good. Minor regulation by debris dam 1.5 mi (2.4 km) upstream. No diversion above station. See schematic diagram of San Gabriel and Los Angeles River basins.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.97	.91	6.9	3.3	8.0	5.0	11	5.0	3.5	1.6	1.1	.68
2	1.0	.91	4.2	2.6	7.3	16	18	5.1	3.3	1.8	1.1	.68
3	1.1	1.0	2.9	2.4	6.6	37	12	5.5	3.2	1.8	1.1	.66
4	1.1	1.0	2.8	26	6.5	14	11	6.0	3.2	1.6	1.1	.66
5	1.1	1.1	2.6	21	6.3	11	9.9	6.1	3.0	1.5	1.1	.66
6	3.0	1.1	2.5	104	5.7	10	9.5	6.1	2.9	1.6	1.1	.66
7	3.6	1.1	2.5	245	6.1	32	9.0	5.3	3.2	1.6	1.1	.66
8	3.1	1.1	2.4	140	6.1	178	8.6	5.1	3.4	1.8	1.1	.66
9	3.2	1.1	2.4	46	6.1	50	8.0	5.4	2.9	1.8	1.2	.66
10	3.3	1.1	2.3	25	5.9	34	7.7	5.4	2.6	1.8	1.1	.66
11	3.3	1.0	2.3	20	6.1	29	7.4	4.9	2.5	1.6	1.1	.66
12	3.2	1.0	2.2	20	6.1	26	7.2	5.0	2.5	1.5	1.2	.73
13	2.0	1.1	2.2	24	6.1	24	6.9	5.0	2.4	1.5	1.2	.66
14	1.1	1.1	2.1	22	5.9	22	6.9	5.0	2.2	1.5	1.2	.66
15	.87	1.2	2.1	21	5.9	20	6.6	5.3	2.1	1.4	1.1	.66
16	.83	1.2	2.1	21	5.6	19	6.3	5.3	1.9	1.4	1.0	.66
17	.80	5.8	2.0	30	5.5	18	6.4	5.0	1.9	1.2	.98	.66
18	.78	60	2.1	22	5.3	17	6.9	4.8	2.0	1.2	.96	.66
19	.76	4.4	2.0	21	5.6	16	7.3	4.7	2.1	1.1	.96	.66
20	.81	2.1	2.1	23	5.1	16	7.3	4.5	2.0	1.1	.99	.66
21	.86	1.6	2.1	23	5.0	15	6.9	4.2	1.9	1.1	.96	.66
22	.97	2.4	2.4	17	5.0	15	6.5	4.0	1.9	1.2	.91	.58
23	1.2	4.4	2.2	15	4.9	14	6.6	3.8	1.7	1.1	.89	.58
24	1.2	1.6	2.1	13	4.7	14	6.7	3.8	1.6	1.0	.87	.64
25	1.1	1.5	2.1	12	4.6	13	6.4	3.6	1.6	1.1	.84	.61
26	1.1	1.4	2.2	11	4.6	13	6.2	3.1	1.5	1.1	.81	.71
27	1.0	1.3	2.2	11	4.6	16	5.9	3.0	1.4	1.1	.79	.73
28	.91	1.2	2.4	10	4.8	13	5.7	3.2	1.3	1.1	.79	.63
29	.91	1.1	2.4	9.2	-----	12	5.4	3.3	1.3	1.1	.78	.65
30	.81	1.1	2.2	8.6	-----	12	5.0	3.4	1.4	1.1	.77	.63
31	.81	-----	2.1	8.4	-----	12	-----	3.6	-----	1.1	.72	-----
TOTAL	46.79	106.92	77.1	977.5	160.0	743.0	235.2	143.5	68.4	42.5	30.92	19.73
MEAN	1.51	3.56	2.49	31.5	5.71	24.0	7.84	4.63	2.28	1.37	1.00	.66
MAX	3.6	60	6.9	245	8.0	178	18	6.1	3.5	1.8	1.2	.73
MIN	.76	.91	2.0	2.4	4.6	5.0	5.0	3.0	1.3	1.0	.72	.58
AC-FT	93	212	153	1,940	317	1,470	467	285	136	84	61	39
CAL YR 1973	TOTAL	4,155.39	MEAN	11.4	MAX	669	MIN	.76	AC-FT	8,240		
WTR YR 1974	TOTAL	2,651.56	MEAN	7.26	MAX	245	MIN	.58	AC-FT	5,260		

PEAK DISCHARGE (BASE, 150 CFS)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-18	0245	2.89	213	3-8	0145	3.22	390
1-7	2300	3.16	316				

11098500 LOS ANGELES RIVER NEAR DOWNEY, CALIF.

LOCATION.--Lat 33°56'58", long 118°10'23", in San Antonio Grant, Los Angeles County, on right bank 400 ft (122 m) downstream from Firestone Boulevard bridge, 1 mi (2 km) upstream from Rio Hondo, and 2.5 mi (4.0 km) west of Downey.

DRAINAGE AREA.--599 mi² (1,551 km²).

PERIOD OF RECORD.--March 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 96.12 ft (29.297 m) above mean sea level (levels by Los Angeles County Flood Control District). See WSP 1735 for history of changes prior to Dec. 11, 1956.

AVERAGE DISCHARGE.--46 years, 112 ft³/s (3.172 m³/s), 81,140 acre-ft/yr (100 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 32,300 ft³/s (915 m³/s) Jan. 7 (gage height, 6.69 ft or 2.039 m); minimum daily, 11 ft³/s (0.31 m³/s) on several days.
Period of record: Maximum discharge, 79,700 ft³/s (2,260 m³/s) Mar. 2, 1938, on basis of slope-area measurements; no flow at times in some years.

REMARKS.--Records poor. Flow regulated since September 1940 by Hansen flood-control reservoir, since December 1941 by Sepulveda flood-control reservoir, combined capacity, 49,400 acre-ft (60.9 hm³/yr), and several small flood-control reservoirs. City of Los Angeles stores imported Owens River water in San Fernando and Chatsworth Reservoirs and at times discharges imported water into Los Angeles River. Many diversions for domestic use and irrigation above station. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records furnished by Los Angeles County Flood Control District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	15	1,120	142	23	142	34	28	21	23	20	11
2	17	17	95	36	23	1,980	282	28	19	22	21	11
3	17	17	30	15	20	835	46	28	20	22	23	18
4	22	16	24	5,340	23	76	34	28	22	25	20	20
5	18	14	20	920	28	31	27	34	21	26	22	15
6	16	19	19	5,460	25	22	27	80	23	25	27	15
7	17	19	17	15,700	20	860	25	25	23	21	28	16
8	20	22	16	2,860	23	5,980	27	25	24	32	24	15
9	42	23	15	339	26	169	26	23	21	35	23	15
10	34	22	15	152	20	70	22	21	21	37	19	22
11	24	17	16	141	16	50	23	22	24	27	15	22
12	21	17	15	116	23	60	26	21	23	26	15	20
13	21	18	17	104	21	48	34	21	24	24	20	17
14	15	17	19	52	23	44	37	23	27	22	19	17
15	15	18	31	24	25	40	28	24	26	30	44	14
16	22	27	21	72	24	39	30	24	18	32	20	16
17	22	274	20	566	25	37	26	26	19	30	19	18
18	22	1,620	20	122	19	37	28	23	20	30	11	17
19	20	43	20	40	25	46	28	19	22	22	12	16
20	17	25	20	299	24	36	26	23	23	21	20	15
21	14	21	40	156	22	35	25	23	25	18	15	13
22	13	1,270	516	40	21	37	26	24	31	18	16	11
23	65	810	28	30	21	37	27	24	34	40	16	13
24	42	25	16	30	17	37	46	25	32	35	15	15
25	25	21	15	27	20	40	76	24	17	34	15	15
26	18	16	15	25	20	54	35	24	19	24	16	21
27	17	16	18	21	18	639	26	21	21	20	17	19
28	13	17	18	22	74	46	22	20	31	15	16	14
29	16	16	17	23	-----	31	25	22	60	17	15	11
30	18	17	17	22	-----	26	28	23	48	22	16	14
31	16	-----	17	22	-----	92	-----	20	-----	21	15	-----
TOTAL	675	4,489	2,287	32,918	669	11,676	1,172	796	759	796	594	476
MEAN	21.8	150	73.8	1,062	23.9	377	39.1	25.7	25.3	25.7	19.2	15.9
MAX	65	1,620	1,120	15,700	74	5,980	282	80	60	40	44	22
MIN	13	14	15	15	16	22	22	19	17	15	11	11
AC-FT	1,340	9,900	4,540	65,290	1,330	23,160	2,320	1,580	1,510	1,580	1,180	944
CAL YR 1973	TOTAL 75,719		MEAN 207	MAX 14,500	MIN 13	AC-FT 150,200						
WTR YR 1974	TOTAL 57,307		MEAN 157	MAX 15,700	MIN 11	AC-FT 113,700						

11098000 ARROYO SECO NEAR PASADENA, CALIF.

LOCATION.--Lat 34°13'20", long 118°10'36", in NW¼NW¼NE¼ sec.31, T.2 N., R.12 W., Los Angeles County, on right bank 1.5 mi (2.4 km) upstream from Millard Canyon, and 5.5 mi (8.8 km) northwest of Pasadena.

DRAINAGE AREA.--16.0 mi² (41.4 km²).

PERIOD OF RECORD.--December 1910 to current year.

GAGE.--Water-stage recorder. Broad-crested weir since November 1938. Datum of gage is 1,397.88 ft (426.074 m) above mean sea level. Prior to Oct. 1, 1916, nonrecording gage at different datum. Oct. 1, 1916, to Oct. 19, 1945, water-stage recorder at datum 4.00 ft (1.219 m) lower.

AVERAGE DISCHARGE.--60 years (1913-15, 1916-74), 9.43 ft³/s (0.267 m³/s), 6,830 acre-ft/yr (8.42 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 390 ft³/s (11.0 m³/s) Mar. 8 (gage height, 3.22 ft or 0.981 m); minimum daily, 0.58 ft³/s (0.016 m³/s) Sept. 22, 23.

Period of record: Maximum discharge, 8,620 ft³/s (244 m³/s) Mar. 2, 1938 (gage height, 9.42 ft or 2.871 m, present datum), on basis of slope-area measurement of maximum flow; no flow at times in some years.

REMARKS.--Records good. Minor regulation by debris dam 1.5 mi (2.4 km) upstream. No diversion above station. See schematic diagram of San Gabriel and Los Angeles River basins.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APP	MAY	JUN	JUL	AUG	SEP
1	.97	.91	6.9	3.3	8.0	5.0	11	5.0	3.5	1.6	1.1	.68
2	1.0	.91	4.2	2.6	7.3	16	18	5.1	3.3	1.8	1.1	.68
3	1.1	1.0	2.9	2.4	6.6	37	12	5.5	3.2	1.8	1.1	.66
4	1.1	1.0	2.8	26	6.5	14	11	6.0	3.2	1.6	1.1	.66
5	1.1	1.1	2.6	21	6.3	11	9.9	6.1	3.0	1.5	1.1	.66
6	3.0	1.1	2.5	104	5.7	10	9.5	6.1	2.9	1.6	1.1	.66
7	3.6	1.1	2.5	245	6.1	32	9.0	5.3	3.2	1.6	1.1	.66
8	3.1	1.1	2.4	140	6.1	178	8.6	5.1	3.4	1.8	1.1	.66
9	3.2	1.1	2.4	46	6.1	50	8.0	5.4	2.9	1.8	1.2	.66
10	3.3	1.1	2.3	25	5.9	34	7.7	5.4	2.6	1.8	1.1	.66
11	3.3	1.0	2.3	20	6.1	29	7.4	4.9	2.5	1.6	1.1	.66
12	3.2	1.0	2.2	20	6.1	26	7.2	5.0	2.5	1.5	1.2	.73
13	2.0	1.1	2.2	24	6.1	24	6.9	5.0	2.4	1.5	1.2	.66
14	1.1	1.1	2.1	22	5.9	22	6.9	5.0	2.2	1.5	1.2	.66
15	.87	1.2	2.1	21	5.9	20	6.6	5.3	2.1	1.4	1.1	.66
16	.83	1.2	2.1	21	5.6	19	6.3	5.3	1.9	1.4	1.0	.66
17	.80	5.8	2.0	30	5.5	18	6.4	5.0	1.9	1.2	.98	.66
18	.78	60	2.1	22	5.3	17	6.9	4.8	2.0	1.2	.96	.66
19	.76	4.4	2.0	21	5.6	16	7.3	4.7	2.1	1.1	.96	.66
20	.81	2.1	2.1	23	5.1	16	7.3	4.5	2.0	1.1	.99	.66
21	.86	1.6	2.1	23	5.0	15	6.9	4.2	1.9	1.1	.96	.66
22	.97	2.4	2.4	17	5.0	15	6.5	4.0	1.9	1.2	.91	.58
23	1.2	4.4	2.2	15	4.9	14	6.6	3.8	1.7	1.1	.89	.58
24	1.2	1.6	2.1	13	4.7	14	6.7	3.8	1.6	1.0	.87	.64
25	1.1	1.5	2.1	12	4.6	13	6.4	3.6	1.6	1.1	.84	.61
26	1.1	1.4	2.2	11	4.6	13	6.2	3.1	1.5	1.1	.81	.71
27	1.0	1.3	2.2	11	4.6	16	5.9	3.0	1.4	1.1	.79	.73
28	.91	1.2	2.4	10	4.8	13	5.7	3.2	1.3	1.1	.79	.63
29	.91	1.1	2.4	9.2	-----	12	5.4	3.3	1.3	1.1	.78	.65
30	.81	1.1	2.2	8.6	-----	12	5.0	3.4	1.4	1.1	.77	.63
31	.81	-----	2.1	8.4	-----	12	-----	3.6	-----	1.1	.72	-----
TOTAL	46.79	106.92	77.1	977.5	160.0	743.0	235.2	143.5	68.4	42.5	30.92	19.73
MEAN	1.51	3.56	2.49	31.5	5.71	24.0	7.84	4.63	2.28	1.37	1.00	.66
MAX	3.6	60	6.9	245	8.0	178	18	6.1	3.5	1.8	1.2	.73
MIN	.76	.91	2.0	2.4	4.6	5.0	5.0	3.0	1.3	1.0	.72	.58
AC-FT	93	212	153	1,940	317	1,470	467	285	136	84	61	39

CAL YR 1973 TOTAL 4,155.39 MEAN 11.4 MAX 669 MIN .76 AC-FT 8,240
WTR YR 1974 TOTAL 2,651.56 MEAN 7.26 MAX 245 MIN .58 AC-FT 5,260

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-18	0245	2.89	213	3-8	0145	3.22	390
1-7	2300	3.16	316				

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LOCATION.--Lat 33°56'58", long 118°10'23", in San Antonio Grant, Los Angeles County, on right bank 400 ft (122 m) downstream from Firestone Boulevard bridge, 1 mi (2 km) upstream from Rio Hondo, and 2.5 mi (4.0 km) west of Downey.

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Period of record: Maximum discharge, 79,700 ft³/s (2,260 m³/s) Mar. 2, 1938, on basis of slope-area measurements; no flow at times in some years.

REMARKS.--Records poor. Flow regulated since September 1940 by Hansen flood-control reservoir, since December 1941 by Sepulveda flood-control reservoir, combined capacity, 49,400 acre-ft (60.9 hm³/yr), and several small flood-control reservoirs. City of Los Angeles stores imported Owens River water in San Fernando and Chatsworth Reservoirs and at times discharges imported water into Los Angeles River. Many diversions for domestic use and irrigation above station. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records furnished by Los Angeles County Flood Control District.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	15	1,120	142	23	142	34	28	21	23	20	11
2	17	17	95	36	23	1,980	282	28	19	22	21	11
3	17	17	30	15	20	835	46	28	20	22	23	18
4	22	16	24	5,340	23	76	34	28	22	25	20	20
5	18	14	20	920	28	31	27	34	21	26	22	15
6	16	19	19	5,460	25	22	27	80	23	25	27	15
7	17	19	17	15,700	20	860	25	25	23	21	28	16
8	20	22	16	2,860	23	5,980	27	25	24	32	24	15
9	42	23	15	339	26	169	26	23	21	35	23	15
10	34	22	15	152	20	70	22	21	21	37	19	22
11	24	17	16	141	16	50	23	22	24	27	15	22
12	21	17	15	116	23	60	26	21	23	26	15	20
13	21	18	17	104	21	48	34	21	24	24	20	17
14	15	17	19	52	23	44	37	23	27	22	19	17
15	15	18	31	24	25	40	28	24	26	30	44	14
16	22	27	21	72	24	39	30	24	18	32	20	16
17	22	274	20	566	25	37	26	26	19	30	19	18
18	22	1,620	20	122	19	37	28	23	20	30	11	17
19	20	43	20	40	25	46	28	19	22	22	12	16
20	17	25	20	299	24	36	26	23	23	21	20	15
21	14	21	40	156	22	35	25	23	25	18	15	13
22	13	1,270	516	40	21	37	26	24	31	18	16	11
23	65	810	28	30	21	37	27	24	34	40	16	13
24	42	25	16	30	17	37	46	25	32	35	15	15
25	25	21	15	27	20	40	76	24	17	34	15	15
26	18	16	15	25	20	54	35	24	19	24	16	21
27	17	16	18	21	18	639	26	21	21	20	17	19
28	13	17	18	22	74	46	22	20	31	15	16	14
29	16	16	17	23	-----	31	25	22	60	17	15	11
30	18	17	17	22	-----	26	28	23	48	22	16	14
31	16	-----	17	22	-----	92	-----	20	-----	21	15	-----
TOTAL	675	4,489	2,287	32,918	669	11,676	1,172	796	759	796	594	476
MEAN	21.8	150	73.8	1,062	23.9	377	39.1	25.7	25.3	25.7	19.2	15.9
MAX	65	1,620	1,120	15,700	74	5,980	282	80	60	40	44	22
MIN	13	14	15	15	16	22	22	19	17	15	11	11
AC-FT	1,340	8,900	4,540	65,290	1,330	23,160	2,320	1,580	1,510	1,540	1,180	944

CAL YR 1973 TOTAL 75,719 MEAN 207 MAX 14,500 MIN 13 AC-FT 150,200
WTR YR 1974 TOTAL 57,307 MEAN 157 MAX 15,700 MIN 11 AC-FT 113,700

11101250 RIO HONDO ABOVE WHITTIER NARROWS DAM, CALIF.

LOCATION.--Lat 34°03'32", long 118°04'13", in Potrero Grande Grant, Los Angeles County, on right bank 0.3 mi (0.5 km) downstream from Garvey Avenue, 0.4 mi (0.6 km) downstream from Rubio Wash, and 2.2 mi (3.5 km) west of El Monte.

DRAINAGE AREA.--91.2 mi² (236.2 km²).

PERIOD OF RECORD.--February 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 217.8 ft (66.39 m) above mean sea level.

AVERAGE DISCHARGE.--18 years, 32.1 ft³/s (0.909 m³/s), 23,260 acre-ft/yr (28.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 6,600 ft³/s (187 m³/s) Jan. 7 (gage height, 4.45 ft or 1.356 m); minimum daily, 0.62 ft³/s (0.018 m³/s) May 18.

Period of record: Maximum discharge, 17,700 ft³/s (501 m³/s) Jan. 25, 1969 (gage height, 7.23 ft or 2.204 m); no flow for some days in some years.

REMARKS.--Records good except for periods of no gage-height record, which are fair. Flow regulated by Big Santa Anita, Sawpit, and Eaton flood-control reservoirs, combined capacity, 1,700 acre-ft (2.01 hm³) and Sierra Madre, Las Flores, and Rubio debris basins. Many diversions above station for domestic use and irrigation. Los Angeles County Flood Control District diverted 4,650 acre-ft (5.73 hm³) of water from San Gabriel River below Santa Fe Dam to Rio Hondo during current year. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records of diversion furnished by the Los Angeles County Flood Control District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	3.1	27	29	22	2.9	1.5	9.7	1.6	2.5	3.6	3.8
2	4.2	3.8	1.3	.97	1.2	252	39	5.8	1.7	2.8	3.9	1.4
3	4.2	3.4	1.4	1.6	1.2	131	1.5	3.4	1.8	2.5	3.1	3.6
4	5.8	2.9	1.4	667	1.2	1.3	1.4	1.9	1.5	1.4	2.3	3.1
5	8.6	2.3	1.4	67	1.2	1.4	1.2	5.3	1.5	1.7	2.4	2.9
6	5.3	2.3	1.2	645	1.2	1.2	1.7	3.6	1.4	2.1	2.9	3.4
7	4.6	2.3	1.3	1,800	.84	327	1.6	1.2	1.8	1.7	2.6	2.1
8	8.5	3.1	1.1	178	6.7	807	2.1	1.8	.84	3.6	2.8	1.9
9	10	5.8	1.2	14	14	3.6	1.9	1.3	.81	6.1	2.9	2.9
10	11	2.3	1.2	5.5	7.4	1.9	1.2	1.1	1.4	3.8	2.1	3.4
11	8.2	2.5	1.1	4.1	4.7	1.9	1.4	.79	3.0	3.6	1.5	2.9
12	9.3	3.1	1.4	2.1	2.5	2.1	1.6	.69	5.6	2.9	2.6	2.9
13	4.9	4.1	1.4	1.9	1.8	1.9	1.4	1.4	6.6	2.0	3.1	2.7
14	4.8	2.5	3.4	61	1.7	2.1	1.4	1.2	4.6	1.9	3.3	1.7
15	8.1	2.3	1.6	92	1.5	2.0	1.4	3.9	7.1	2.6	3.1	1.4
16	8.8	3.4	1.4	85	1.5	1.9	42	1.7	2.1	3.5	2.0	1.9
17	10	135	5.4	115	1.4	1.9	89	.83	2.3	4.2	1.7	2.3
18	9.1	238	5.8	45	1.7	1.8	130	.62	3.4	3.2	1.4	2.3
19	6.5	1.4	2.3	39	3.1	1.8	141	.71	4.4	3.3	2.2	2.7
20	9.6	1.2	1.7	120	3.4	1.8	146	.91	2.1	2.7	2.8	2.5
21	6.8	1.4	1.6	33	2.0	1.8	146	1.1	3.6	1.9	2.2	1.9
22	7.4	15	31	24	1.9	1.8	72	1.2	5.4	4.8	2.4	1.8
23	20	8.7	.97	27	1.7	1.8	4.1	1.8	4.8	12	2.4	2.0
24	2.7	1.8	.97	25	1.4	1.8	3.6	1.6	3.6	2.7	1.7	2.5
25	2.6	1.8	.84	24	2.2	1.8	61	1.3	3.8	2.9	3.1	2.3
26	2.8	1.7	.84	22	1.7	1.8	92	1.4	4.4	2.9	2.1	1.9
27	2.9	1.7	1.2	22	1.8	39	61	1.3	3.8	2.0	2.7	2.2
28	2.7	1.7	1.2	22	20	1.5	37	1.6	3.1	1.8	3.6	1.9
29	3.1	1.7	1.2	22	-----	1.5	23	1.6	2.3	2.8	3.0	1.8
30	2.9	1.7	1.2	22	-----	1.5	16	1.8	1.7	3.1	2.3	1.6
31	2.7	-----	1.2	22	-----	1.5	-----	2.1	-----	3.7	3.8	-----
TOTAL	198.8	462.0	106.22	4,238.17	112.94	1,604.3	1,124.0	64.65	92.05	98.7	81.6	71.7
MEAN	6.41	15.4	3.43	137	4.03	51.8	37.5	2.09	3.07	3.18	2.63	2.39
MAX	20	238	31	1,800	22	807	146	9.7	7.1	12	3.9	3.8
MIN	2.6	1.2	.84	.97	.84	1.2	1.2	.62	.81	1.4	1.4	1.4
AC-FT	394	916	211	8,410	224	3,180	2,230	128	183	196	162	142

CAL YR 1973 TOTAL 10,715.56 MEAN 29.4 MAX 872 MIN .64 AC-FT 21,250
 WTR YR 1974 TOTAL 8,255.13 MEAN 22.6 MAX 1,800 MIN .62 AC-FT 16,370

NOTE.--No gage-height record Nov. 23 to Dec. 7, Jan. 16 to Feb. 6, Mar. 14 to Apr. 5.

LOS ANGELES RIVER BASIN

11101500 RIO HONDO NEAR MONTEBELLO, CALIF.

LOCATION.--Lat 34°02'00", long 118°04'22", in Potrero Grande Grant, Los Angeles County, on right bank 900 ft (274 m) upstream from Mission bridge, and 2 mi (3 km) northeast of Montebello.

DRAINAGE AREA.--116 mi² (300 km²), excludes area above Santa Fe Dam.

PERIOD OF RECORD.--October 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 190.77 ft (58.147 m) above mean sea level (levels by Los Angeles County Flood Control District). See WSP 1735 for history of changes prior to September 1962.

AVERAGE DISCHARGE.--29 years (1928-57), 51.5 ft³/s (1.458 m³/s), 37,280 acre-ft/yr (46.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 9,020 ft³/s (255 m³/s) Jan. 7 (gage height, 10.00 ft or 3.048 m); minimum daily, 2.0 ft³/s (0.057 m³/s) Aug. 19, 20.

Period of record: Maximum discharge, 28,000 ft³/s (793 m³/s) Mar. 2, 1938 (gage height, 16.69 ft or 5.087 m, present datum), from rating curve extended above 9,000 ft³/s (255 m³/s) on basis of slope-area measurement and runoff from contributing stream; no flow for some days in 1964-65.

REMARKS.--Records poor. Flow regulated by Big Santa Anita, Sawpit, and Eaton flood-control reservoirs, combined capacity, 1,700 acre-ft (2.10 hm³) and Sierra Madre, Las Flores, and Rubio debris basins. Many diversions above station for domestic use and irrigation. At times flow is diverted from San Gabriel River below Santa Fe Dam to Rio Hondo above station. Since 1957, with the exception of 1972, imported Colorado River water has been released to Rio Hondo 1.6 mi (2.6 km) above station for ground-water recharge. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records furnished by Los Angeles County Flood Control District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	5.5	90	28	24	6.0	5.0	6.8	3.6	3.9	4.0	2.3
2	4.8	5.5	4.4	8.0	6.2	391	130	5.0	3.7	3.9	4.0	2.3
3	4.9	5.0	4.6	5.0	6.2	179	6.0	5.0	3.8	3.9	4.0	2.3
4	4.8	5.0	4.8	953	6.2	6.4	5.7	5.0	3.9	3.9	4.0	2.3
5	5.5	4.8	4.6	143	6.2	6.0	5.4	8.2	4.0	3.9	4.0	2.3
6	5.0	4.8	3.9	956	6.2	6.0	5.1	10	4.0	3.5	4.0	2.6
7	4.6	4.6	4.4	2,560	6.1	518	4.8	6.0	4.0	3.9	4.0	2.8
8	5.7	4.4	3.7	251	9.3	612	4.6	6.0	4.0	3.7	3.9	3.1
9	5.2	6.0	3.7	27	6.1	6.0	4.3	5.0	4.0	3.9	3.8	3.3
10	5.7	4.8	3.5	15	6.0	5.8	4.0	5.0	4.0	4.5	3.7	3.6
11	5.0	6.0	3.5	12	6.0	5.7	4.0	5.0	4.0	5.0	3.6	3.9
12	5.5	5.5	3.7	10	5.9	10	4.0	4.0	4.0	3.7	3.5	4.1
13	3.7	6.8	3.7	10	5.9	5.3	4.0	4.0	4.0	4.2	3.4	3.9
14	3.9	5.5	4.4	73	5.9	5.2	4.0	4.0	4.0	4.4	3.2	3.6
15	4.6	5.2	4.2	112	6.0	5.0	4.0	4.0	4.0	5.2	3.1	3.4
16	4.8	5.5	4.2	106	6.0	4.8	43	3.9	4.0	4.6	2.8	3.1
17	5.0	84	4.8	144	6.1	4.7	90	3.8	4.0	5.7	2.5	2.9
18	5.5	183	4.8	56	6.1	4.5	144	3.7	4.0	6.3	2.2	2.6
19	4.8	5.7	5.2	49	6.2	4.5	172	3.6	4.0	7.1	2.0	2.8
20	4.4	5.2	5.2	150	6.2	4.5	188	3.5	4.0	6.8	2.0	2.5
21	4.4	5.2	5.0	41	6.0	4.5	200	3.4	4.0	6.6	2.1	2.6
22	4.2	237	43	30	5.9	4.4	103	3.4	4.0	6.3	2.1	2.5
23	17	29	5.0	34	5.7	4.4	7.0	3.4	4.0	17	2.1	2.5
24	4.8	6.0	4.5	31	5.5	4.4	6.6	3.4	4.0	4.0	2.1	2.8
25	4.8	5.9	4.3	30	5.4	4.4	63	3.4	4.0	4.0	2.1	2.9
26	4.8	5.8	4.2	28	5.2	4.4	119	3.5	4.0	4.0	2.2	2.8
27	4.8	5.7	4.6	28	5.1	129	71	3.5	4.0	3.8	2.2	2.5
28	4.8	5.7	4.6	27	18	5.0	37	3.5	3.9	3.6	2.2	2.3
29	5.0	5.7	4.6	27	-----	5.0	21	3.5	3.9	3.4	2.2	2.1
30	5.5	5.7	3.9	28	-----	5.0	12	3.5	3.9	3.2	2.2	2.1
31	5.2	-----	3.3	27	-----	5.0	-----	3.5	-----	3.4	2.2	-----
TOTAL	163.0	674.5	258.3	5,999.0	199.6	1,965.9	1,471.5	139.5	118.7	151.3	91.4	84.8
MEAN	5.26	22.5	8.33	194	7.13	63.4	49.1	4.50	3.96	4.88	2.95	2.83
MAX	17	237	90	2,560	24	612	200	10	4.0	17	4.0	4.1
MIN	3.7	4.4	3.3	5.0	5.1	4.4	4.0	3.4	3.6	3.2	2.0	2.1
AC-FT	323	1,340	512	11,900	396	3,900	2,920	277	235	300	181	168
CAL YR 1973	TOTAL 19,050.8		MEAN 52.2		MAX 2,150	MIN 3.2	AC-FT 37,790					
WTR YR 1974	TOTAL 11,317.5		MEAN 31.0		MAX 2,560	MIN 2.0	AC-FT 22,450					

11102000 MISSION CREEK NEAR MONTEBELLO, CALIF.

LOCATION.--Lat 34°01'45", long 118°04'07", in La Merced Grant, Los Angeles County, on upstream side of right abutment of San Gabriel Boulevard bridge, 2 mi (3 km) northeast of Montebello.

DRAINAGE AREA.--4.16 mi² (10.77 km²).

PERIOD OF RECORD.--October 1929 to current year. Yearly estimate for 1938, published in WSP 1315-B. Prior to October 1944, published as Rio Hondo Slough near Montebello.

GAGE.--Water-stage recorder. Datum of gage is 188.2 ft (57.36 m) above mean sea level. Prior to Nov. 3, 1938, at datum 6.30 ft (1.920 m) higher.

AVERAGE DISCHARGE.--45 years, 10.7 ft³/s (0.303 m³/s), 7,750 acre-ft/yr (9.56 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 22 ft³/s (0.62 m³/s) Jan. 8 (gage height, 7.53 ft or 2.295 m); no flow most of year.

Period of record: Maximum discharge not determined, occurred Mar. 2, 1938; no flow at times in some years.

REMARKS.--Records poor. Flow is almost entirely from ground-water seepage. Flow partially regulated above station by Legg Lake. No diversion above station. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records furnished by Los Angeles County Flood Control District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	.50	.10	.10					
2				0	.50	.10	.10					
3				0	.50	.10	.10					
4				1.0	.50	.10	.10					
5				.50	.50	.10	.10					
6				.80	.40	.10	.10					
7				3.6	.40	.10	.10					
8				15	.40	.40	.10					
9				4.2	.30	.10	.10					
10				1.1	.30	.10	.10					
11				1.0	.30	.10	.10					
12				.90	.20	.10	.10					
13				.80	.20	.10	.10					
14				.70	.20	.10	.10					
15				.60	.20	.10	1.0					
16				.50	.10	.10	1.1					
17				.50	.10	.10	.70					
18				.50	.10	.10	.70					
19				.50	.10	.10	.80					
20				.50	.10	.10	.70					
21				.50	.10	.10	.70					
22				.50	.10	.10	.60					
23				.50	.10	.10	.50					
24				.50	.10	.10	.50					
25				.50	.10	.10	.50					
26				.50	.10	.10	.50					
27				.50	.10	.10	.40					
28				.50	.10	.10	.40					
29				.50	-----	.10	.20					
30				.50	-----	.10	0					
31		-----		.50	-----	.10	-----		-----			-----
TOTAL	0	0	0	38.20	6.70	3.40	10.70	0	0	0	0	0
MEAN	0	0	0	1.23	.24	.11	.36	0	0	0	0	0
MAX	0	0	0	15	.50	.40	1.1	0	0	0	0	0
MIN	0	0	0	0	.10	.10	0	0	0	0	0	0
AC-FT	0	0	0	76	13	6.7	21	0	0	0	0	0
CAL YR 1973	TOTAL 19.50	MEAN .053	MAX 5.1	MIN 0	AC-FT 39							
WTR YR 1974	TOTAL 59.00	MEAN .16	MAX 15	MIN 0	AC-FT 117							

11102300 RIO HONDO BELOW WHITTIER NARROWS DAM, CALIF.

LOCATION.--Lat 34°01'00", long 118°05'15", in Paso de Bartolo Grant, Los Angeles County, on right levee 0.2 mi (0.3 km) upstream from Beverly Boulevard, 0.4 mi (0.6 km) downstream from axis of Whittier Narrows Dam, and 1.0 mi (1.6 km) northeast of Montebello.

DRAINAGE AREA.--124 mi² (321 km²).

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 175 ft (53 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 12,500 ft³/s (354 m³/s) Jan. 7 (gage height, 7.42 ft or 2.262 m); no flow for several days.

Period of record: Maximum discharge, 38,800 ft³/s (1,100 m³/s) Jan. 25, 1969 (gage height, 13.82 ft or 4.212 m), from rating curve extended above 15,000 ft³/s (425 m³/s) on basis of gate openings at dam at gage heights 12.32 ft (3.755 m) and 13.82 ft (4.212 m); no flow at times in each year.

REMARKS.--Records fair. Flow regulated by Whittier Narrows flood-control reservoir, capacity, 36,160 acre-ft (44.6 hm³). There are several small flood-control reservoirs, combined capacities, 1,700 acre-ft (2.10 hm³) and several small debris basins above Whittier Narrows Dam. Many diversions for domestic use and irrigation. At times flow is diverted from San Gabriel River to Rio Hondo from sites below Santa Fe Dam and above Whittier Narrows Dam. See schematic diagram of San Gabriel and Los Angeles River basins.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	6.0	128	52	120	27	47	142	79	22	35	5.2
2	111	5.2	1.0	10	110	326	166	121	79	70	67	3.6
3	112	4.7	34	10	108	196	106	106	76	55	63	14
4	110	3.6	134	987	107	30	126	106	72	55	67	59
5	117	4.4	132	17	109	88	131	107	73	58	63	76
6	120	4.7	128	895	107	95	136	121	42	63	79	25
7	119	46	130	3,180	106	343	136	118	40	63	85	6.8
8	115	96	124	560	112	886	136	120	73	63	74	5.2
9	120	118	121	41	114	184	148	123	67	67	68	5.2
10	120	127	126	30	110	47	148	119	72	59	67	37
11	117	125	126	59	111	40	131	116	71	63	66	86
12	56	90	124	63	102	40	106	120	69	67	64	91
13	2.6	5.0	129	61	83	96	101	123	77	63	60	86
14	3.4	3.0	123	75	75	106	106	121	67	63	63	86
15	47	36	125	108	88	126	101	126	52	63	48	86
16	114	109	130	96	108	121	116	128	47	59	24	86
17	115	239	126	154	117	126	166	113	42	76	2.9	37
18	111	278	125	77	98	131	184	106	24	96	3.3	6.8
19	119	11	122	54	41	136	205	107	21	101	29	5.1
20	121	113	120	139	32	142	219	48	23	106	53	0
21	119	109	77	77	25	136	226	7.7	21	106	55	0
22	121	488	28	55	23	136	131	6.5	21	111	58	0
23	138	53	0	51	22	136	17	8.4	20	111	30	0
24	118	0	0	47	23	138	19	43	18	86	4.6	0
25	126	0	2.0	44	27	113	76	101	19	96	5.9	0
26	122	21	8.0	44	79	51	166	103	21	71	26	0
27	130	126	21	40	85	166	131	102	21	59	53	56
28	129	125	20	40	85	47	111	91	19	63	54	0
29	128	128	22	40	-----	136	116	80	20	63	51	0
30	106	125	17	51	-----	142	142	79	23	55	25	0
31	68	-----	18	116	-----	51	-----	79	-----	18	10	-----
TOTAL	3,268.0	2,599.6	2,526.0	7,271	2,327	4,538	3,850	2,991.6	1,369	2,171	1,453.7	807.46
MEAN	105	86.7	81.5	235	83.1	146	128	96.5	45.6	70.0	46.9	26.9
MAX	138	488	134	3,180	120	886	226	142	79	111	85	91
MIN	2.6	0	0	10	22	27	17	6.5	18	18	2.9	0
AC-FT	6,480	5,160	5,010	14,420	4,620	9,000	7,640	5,930	2,720	4,310	2,880	1,600

CAL YR 1973 TOTAL 44,930.25 MEAN 123 MAX 3,000 MIN 0 AC-FT 89,120
WTR YR 1974 TOTAL 35,172.36 MEAN 96.4 MAX 3,180 MIN 0 AC-FT 69,760

NOTE.--No gage-height record Nov. 12 to Dec. 6, Dec. 16, to Jan. 7.

LOCATION.--Lat 33°56'48", long 118°09'43", in San Antonio Grant, Los Angeles County, on left bank 700 ft (213 m) upstream from Stewart and Gray Road bridge, 1.0 mi (1.6 km) upstream from mouth, and 1.5 mi (2.4 km) west of Downey.

PERIOD OF RECORD.--March 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 91.4 ft (27.86 m) above mean sea level (levels by Los Angeles County Flood Control District). Prior to Oct. 31, 1951, at site 700 ft (213 m) downstream at datum 1.5 ft (0.46 m) lower.

REMARKS.--Records poor. Flow regulated since January 1956 by Whittier Narrows flood-control reservoir, capacity, 36,160 acre-ft (44.6 hm³). There are several small flood-control reservoirs, combined capacity, 1,700 acre-ft (2.10 hm³) and several debris basins above Whittier Narrows Dam. Many diversions above station for domestic use and irrigation. At times flow is diverted from San Gabriel River below Santa Fe Dam and above Whittier Narrows Dam to Rio Hondo above station. Since 1937 much of the flow in Rio Hondo has been diverted to percolation basin from a site 5.5 mi (8.8 km) upstream. See schematic diagram of San Gabriel and Los Angeles River basins.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.10	25	5.7	.60	.80	.60	.30	.10	0	.30	.30
2	0	0	.10	0	.10	182	13	.10	.10	.30	.40	.40
3	0	0	.30	0	.10	21	.10	.30	.10	.10	.80	.40
4	0	0	.10	482	.10	.30	.10	.30	.10	.10	.10	.30
5	0	0	.10	66	.30	.40	.10	.40	.10	.10	.30	.40
6	0	0	0	222	.40	.10	.10	1.0	.10	.10	.40	.60
7	0	0	0	3,360	.10	139	.10	.10	.30	.10	.80	.40
8	0	0	.10	256	.30	425	.10	.10	.05	.10	.60	.40
9	0	0	0	6.3	.30	1.6	0	.10	.04	.10	.60	.40
10	0	0	0	1.0	.30	1.2	0	.10	.04	.10	.40	.40
11	0	0	.10	.40	.30	.40	.10	.10	.04	.10	.40	.30
12	0	0	.10	.30	.40	.40	.10	.10	.04	.10	.60	.60
13	0		.10	.30	.40	.40	.10	.30	.03	.30	.40	.30
14	.10	0	.10	.30	.40	.40	0	.10	.03	.30	.30	.40
15	.10	.10	0	.40	.40	.40	0	.30	.02	.10	.40	.60
16	.10	4.5	.10	1.2	.60	.60	.10	.30	.03	.10	.30	.30
17	.30	37	.10	29	.60	.40	.10	.10	.02	.30	.30	.30
18	.30	55	.10	.80	.40	.60	.10	.10	.03	.40	.60	1.7
19	.10	0	0	.40	.60	.60	.10	.10	.02	.40	.40	.60
20	.30	0	0	18	.10	.60	.30	.10	.04	.40	.40	.10
21	.30	.80	.10	1.0	.30	.60	.10	.10	.03	.10	.40	.10
22	.30	122	.22	.10	.30	.40	0	.10	.04	.10	.40	.10
23	1.2	16	.10	.10	.30	.60	1.0	.10	.03	.80	.40	.10
24	.10	.10	0	.10	.10	.40	1.8	.10	.04	.30	.60	.30
25	.10	0	0	.30	.10	.60	.40	.10	.04	.40	.40	.10
26	.10	0	.10	.30	.30	.80	.40	.10	.04	.40	.60	.10
27	.30	0	.10	.10	.60	37	.10	.10	.04	.40	.30	.10
28	.10	0	.10	.10	6.5	.80	.10	.10	.05	.30	.30	.10
29	.10	0	.10	.30	-----	.80	.10	.10	.10	.30	.80	.10
30	.30	0	.10	.30	-----	1.0	.10	.10	.10	.40	.40	.10
31	.10	-----	.30	.40	-----	.60	-----	.10	-----	.30	.40	-----
TOTAL	4.30	235.60	49.40	4,453.20	15.30	819.80	19.30	5.50	1.84	7.40	13.80	10.40
MEAN	.14	7.85	1.59	144	.55	26.4	.64	.18	.061	.24	.45	.35
MAX	1.2	122	25	3,360	6.5	425	13	1.0	.30	.80	.80	1.7
MIN	0	0	0	0	.10	.10	0	.10	.02	0	.10	.10
AC=FT	8.5	467	98	8,830	30	1,630	38	11	3.6	15	27	21
CAL YR 1973	TOTAL 7,183.60											
WTR YR 1974	TOTAL 5,635.84											
	MEAN 19.7			MAX 2,550		MIN 0		AC-FT 14,250				
	MEAN 15.4			MAX 3,360		MIN 0		AC-FT 11,180				

LOS ANGELES RIVER BASIN

11103000 LOS ANGELES RIVER AT LONG BEACH, CALIF.

LOCATION.--Lat 33°49'02", long 118°12'20", in Los Cerritos Grant, Los Angeles County, on right bank 5,000 ft (1,524 m) upstream from Willow Street, 3.4 mi (5.5 km) north of Long Beach, and 3.7 mi (6.0 km) upstream from mouth.

DRAINAGE AREA. -- 832 mi² (2,150 km²).

PERIOD OF RECORD.--December 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 11.91 ft (3.630 m) above mean sea level (levels by Los Angeles County Flood Control District). See WSP 1735 for history of changes prior to Jan. 19, 1956.

AVERAGE DISCHARGE.--45 years (1929-74), 168 ft³/s (4.758 m³/s), 121,700 acre-ft/yr (150 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 42,900 ft³/s (1,210 m³/s) Jan. 7 (gage height, 9.74 ft or 2.969 m); minimum daily, 17 ft³/s (0.48 m³/s) Sept. 2.

Period of record: Maximum discharge, 102,000 ft³/s (2,890 m³/s) Jan. 25, 1969 (gage height, 16.00 ft or 4.877 m); no flow at times in 1929-30, 1934.

REMARKS.--Records fair. Flow regulated since September 1940 by Hansen flood-control reservoir, since December 1941 by Sepulveda flood-control reservoir, combined capacity, 49,400 acre-ft (60.9 hm³), and several small flood-control reservoirs. City of Los Angeles stores imported Owens River water in San Fernando and Chatsworth reservoirs and at times discharges imported water into Los Angeles River above station. Many diversions above station for domestic use and irrigation. AVERAGE DISCHARGE represents flow to the ocean, regardless of upstream development. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records furnished by Los Angeles County Flood Control District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	23	1,150	198	33	275	46	34	29	31	27	19
2	27	25	224	71	31	2,960	429	36	25	31	28	17
3	27	27	50	28	27	1,170	70	36	29	32	28	25
4	30	24	38	5,780	28	143	37	38	37	36	23	33
5	26	21	29	1,450	36	41	31	30	33	34	22	30
6	24	27	27	4,720	35	30	32	110	31	34	31	29
7	22	27	25	17,200	30	1,150	30	41	33	28	32	29
8	25	30	25	3,950	32	7,310	33	39	31	31	33	25
9	48	32	23	603	37	338	33	35	24	32	32	24
10	45	29	22	200	35	98	31	33	27	35	30	30
11	29	25	28	162	30	71	29	29	32	26	24	30
12	27	24	28	137	34	65	36	27	33	28	23	30
13	26	28	30	124	32	57	35	27	32	29	30	27
14	21	27	30	85	33	55	45	34	34	24	27	25
15	20	27	48	62	36	55	33	37	32	28	68	19
16	19	34	34	80	35	50	36	35	24	38	28	19
17	22	578	34	748	32	51	32	36	24	36	29	22
18	19	1,790	35	189	25	53	34	33	28	36	18	24
19	27	79	31	71	32	60	33	26	29	33	18	22
20	30	26	30	313	36	58	32	30	28	31	32	21
21	25	33	45	286	31	60	28	38	31	30	26	22
22	24	1,480	677	60	29	58	27	40	62	30	25	18
23	78	1,150	73	51	30	60	31	36	65	57	25	20
24	84	58	30	42	26	53	44	39	60	49	25	27
25	39	39	24	30	25	58	57	37	33	46	21	26
26	31	31	22	29	30	75	40	31	31	33	22	30
27	28	29	30	26	30	927	31	30	30	30	25	36
28	21	28	30	26	101	99	25	31	34	21	24	29
29	24	25	30	28	-----	73	28	33	70	24	26	20
30	30	22	27	31	-----	70	34	29	57	31	27	20
31	29	-----	25	30	-----	104	-----	29	-----	31	25	-----
TOTAL	952	5,798	2,954	36,810	951	15,727	1,462	1,119	1,068	1,015	854	748
MEAN	30.7	193	95.3	1,187	34.0	507	48.7	36.1	35.6	32.7	27.5	24.9
MAX	84	1,790	1,150	17,200	101	7,310	429	110	70	57	68	36
MIN	19	21	22	26	25	30	25	26	24	21	18	17
AC-FT	1,890	11,500	5,860	73,010	1,890	31,190	2,900	2,220	2,120	2,010	1,690	1,480
CAL YR 1973	TOTAL 84,227		MEAN 231	MAX 16,200	MIN 19	AC-FT 167,100						
WTR YR 1974	TOTAL 69,458		MEAN 190	MAX 17,200	MIN 17	AC-FT 137,800						

LOCATION.--Lat 33°59'54", long 118°24'05"; in La Ballona Grant, Los Angeles County, 500 ft (152 m) upstream from Sawtelle Boulevard bridge, 1.7 mi (2.7 km) south of Culver City, and 4.1 mi (6.6 km) upstream from mouth.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	12	498	45	16	14	15	19	21	12	12	12
2	15	12	12	9.4	21	968	62	21	20	12	14	12
3	20	10	12	15	34	262	13	21	19	13	13	13
4	19	10	12	2,070	34	14	14	18	20	11	11	12
5	19	12	13	486	17	12	14	26	19	12	15	12
6	18	12	12	2,480	14	17	16	33	20	12	14	13
7	17	14	12	3,510	15	4,330	21	21	20	11	15	12
8	14	13	12	247	16	1,390	20	19	18	12	15	11
9	13	14	11	45	15	38	22	18	19	12	15	14
10	13	12	12	20	16	21	19	17	21	12	12	13
11	11	12	12	20	18	16	15	15	18	13	11	13
12	11	11	12	27	19	16	18	14	18	15	14	14
13	12	13	12	25	19	16	15	17	15	13	14	13
14	13	12	13	25	18	14	15	17	18	11	12	12
15	15	12	12	25	18	17	15	16	18	12	12	11
16	17	82	11	70	16	15	18	19	17	14	12	13
17	13	303	11	198	14	14	18	19	17	15	11	14
18	13	287	11	19	13	15	19	16	17	14	10	13
19	15	9.4	11	16	16	16	14	13	21	13	12	12
20	12	9.4	11	15	18	16	16	15	23	14	12	13
21	13	9.4	12	18	16	16	13	16	19	12	12	12
22	13	755	240	13	16	18	15	18	16	14	12	10
23	48	46	11	13	14	19	12	22	15	16	13	9.4
24	15	13	11	13	19	18	25	18	22	11	13	10
25	14	11	11	13	14	21	18	19	21	12	12	11
26	14	11	11	14	15	32	17	17	15	12	14	11
27	13	9.4	9.4	13	15	366	17	16	18	11	14	11
28	12	9.4	11	13	94	18	16	20	20	11	15	11
29	12	9.4	10	14	-----	15	18	20	17	12	16	9.4
30	12	9.4	9.4	14	-----	20	18	22	13	13	17	11
31	12	-----	8.8	19	-----	16	-----	21	-----	12	13	-----
TOTAL	471	1,754.8	1,066.6	9,524.4	570	7,780	548	583	555	389	407	357.8
MEAN	15.2	58.5	34.4	307	20.4	251	18.3	18.8	18.5	12.5	13.1	11.9
MAX	48	755	498	3,510	94	4,330	62	33	23	16	17	14
MIN	11	9.4	8.8	9.4	13	12	12	13	13	11	10	9.4
AC-FT	934	3,480	2,120	18,890	1,130	15,430	1,090	1,160	1,100	772	807	710
CAL YR 1973	TOTAL	21,259.0	MEAN	68.2	MAX	2,590	MIN	8.8	AC-FT	42,170		
WTR YR 1974	TOTAL	24,006.6	MEAN	65.8	MAX	4,330	MIN	8.8	AC-FT	47,620		

11104000 TOPANGA CREEK NEAR TOPANGA BEACH, CALIF.

LOCATION.--Lat 34°03'52", long 118°35'10", in Boca de Santa Monica Grant, Los Angeles County, on downstream side of right abutment of highway bridge, 1.7 mi (2.7 km) north of Topanga Beach.

DRAINAGE AREA.--18.0 mi² (46.6 km²).

PERIOD OF RECORD.--January 1930 to September 1938, October 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 265.60 ft (80.955 m) above mean sea level (levels by Los Angeles County Flood Control District). Prior to June 5, 1940, at different datum. June 5, 1940, to Dec. 9, 1941, at site 400 ft (122 m) upstream at different datum.

AVERAGE DISCHARGE.--43 years, 5.69 ft³/s (0.161 m³/s), 4,120 acre-ft/yr (5.08 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,060 ft³/s (58.3 m³/s), estimated, Jan. 7 (gage height, unknown); minimum daily, 0.10 ft³/s (0.003 m³/s) many days.

Period of record: Maximum discharge, 12,200 ft³/s (346 m³/s) Jan. 25, 1969 (gage height, 13.36 ft or 4.072 m), from rating curve extended above 610 ft³/s (17.3 m³/s) on basis of slope-area measurement of maximum flow; no flow at times in some years.

REMARKS.--Records poor. No regulation or diversion above station.

COOPERATION.--Records furnished by Los Angeles County Flood Control District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.20	22	.40	2.2	1.2	1.7	.80	.40	.40	.10	.20
2	.20	.10	3.2	.40	2.2	19	1.8	.80	.40	.40	.10	.20
3	.20	.20	.70	.40	2.0	7.7	1.7	.80	.40	.30	.10	.20
4	.20	.10	.50	109	1.9	3.0	1.5	.80	.40	.30	.10	.10
5	.20	.20	.40	28	1.9	2.2	1.5	.80	.40	.30	.10	.10
6	.20	.20	.40	161	1.8	2.3	1.4	.80	.40	.40	.10	.10
7	.20	.20	.30	1,060	1.8	7.5	1.4	.60	.40	.40	.10	.20
8	.20	.20	.20	220	1.8	28	1.3	.70	.40	.30	.10	.20
9	.20	.20	.30	36	1.7	7.2	1.3	.70	.40	.20	.20	.20
10	.20	.20	.30	15	1.7	4.6	1.2	.70	.40	.20	.20	.20
11	.20	.20	.40	12	1.5	4.1	1.2	.70	.40	.20	.10	.20
12	.20	.20	.40	8.7	1.5	3.7	1.2	.60	.40	.20	.10	.20
13	.20	.20	.40	6.9	1.5	3.6	1.2	.60	.40	.20	.20	.20
14	.10	.20	.40	5.9	1.5	3.4	1.2	.60	.40	.20	.20	.20
15	.10	.20	.40	5.3	1.5	3.0	1.1	.60	.40	.20	.20	.20
16	.10	.30	.40	5.3	1.5	2.9	1.0	.60	.40	.20	.20	.20
17	.10	5.1	.40	7.8	1.5	2.6	1.2	.50	.30	.20	.20	.20
18	.10	22	.40	5.5	1.4	2.4	1.2	.50	.30	.20	.20	.20
19	.10	.50	.40	4.8	1.4	2.3	1.0	.60	.30	.10	.20	.20
20	.10	.30	.40	5.5	1.4	2.3	.90	.60	.30	.20	.20	.20
21	.20	.30	.30	5.1	1.3	2.3	.80	.50	.30	.20	.20	.20
22	.20	3.1	.90	3.9	1.2	2.3	.90	.50	.30	.20	.20	.30
23	.40	3.1	.30	3.4	1.2	2.3	.80	.50	.20	.20	.20	.20
24	.20	.60	.30	3.6	1.2	2.3	.70	.50	.20	.20	.20	.20
25	.20	.50	.30	3.0	1.0	2.3	.70	.50	.20	.20	.20	.20
26	.20	.40	.30	2.9	.90	2.3	.70	.40	.20	.20	.20	.20
27	.10	.40	.30	2.7	.90	4.3	.70	.40	.20	.20	.20	.20
28	.10	.30	.30	2.4	1.0	2.3	.80	.40	.20	.20	.20	.20
29	.10	.20	.30	2.3	-----	2.0	.80	.40	.20	.20	.20	.20
30	.10	.30	.20	2.3	-----	1.9	.80	.40	.30	.20	.20	.20
31	.10	-----	.30	2.2	-----	1.9	-----	.40	-----	.20	.20	-----
TOTAL	5.10	40.20	36.10	1,731.70	42.40	139.2	33.70	18.30	9.90	7.30	5.20	5.80
MEAN	.16	1.34	1.16	55.9	1.51	4.49	1.12	.59	.33	.24	.17	.19
MAX	.40	22	22	1,060	2.2	28	1.8	.80	.40	.40	.20	.30
MIN	.10	.10	.20	.40	.90	1.2	.70	.40	.20	.10	.10	.10
AC-FT	10	80	72	3,430	84	276	67	36	20	14	10	12

CAL YR 1973 TOTAL 3,178.28 MEAN 8.71 MAX 1,140 MIN .05 AC-FT 6,300
WTR YR 1974 TOTAL 2,074.90 MEAN 5.68 MAX 1,060 MIN .10 AC-FT 4,120

11105500 MALIBU CREEK AT CRATER CAMP, NEAR CALABASAS, CALIF.

LOCATION.--Lat 34°04'40", long 118°42'03", in SW¼ sec.18, T.1 S., R.17 W., Los Angeles County, on right bank 700 ft (213 m) downstream from Cold Creek, 0.2 mi (0.3 km) downstream from Crater Camp, and 6 mi (10 km) south-west of Calabasas.

DRAINAGE AREA.--105 mi² (272 km²).

PERIOD OF RECORD.--January 1931 to current year.

GAGE.--Water-stage recorder. Datum of gage is 432.82 ft (131.924 m) above mean sea level (levels by Los Angeles County Flood Control District). Prior to Nov. 16, 1954, at datum 2.31 ft (0.704 m) lower.

AVERAGE DISCHARGE.--43 years, 21.9 ft³/s (0.620 m³/s), 15,870 acre-ft/yr (19.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 5,100 ft³/s (144 m³/s) Jan. 7 (gage height, 10.06 ft or 3.066 m); minimum daily, 2.7 ft³/s (0.076 m³/s) July 20-22.

Period of record: Maximum discharge, 33,800 ft³/s (957 m³/s) Jan. 25, 1969 (gage height, 21.43 ft or 6.532 m), from rating curve extended above 6,000 ft³/s (170 m³/s) on basis of slope-area measurements at gage heights 17.27 ft (5.264 m) and 21.43 ft (6.532 m); no flow at times in some years prior to 1961.

REMARKS.--Records fair. Flow partly regulated by many small recreational reservoirs. Small diversions above station for domestic use.

COOPERATION.--Records furnished by Los Angeles County Flood Control District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	2.9	5.3	6.8	21	17	18	7.7	5.8	3.8	3.8	3.8
2	3.8	2.9	3.5	6.6	20	8.5	17	8.6	7.7	3.8	4.0	3.8
3	3.8	3.6	1.2	8.3	18	6.4	18	7.7	6.6	3.8	3.1	4.4
4	4.2	3.6	8.3	18.5	17	3.7	16	8.0	7.7	5.6	3.6	3.3
5	3.6	3.3	6.8	10.0	16	2.5	12	6.8	6.1	5.8	3.8	3.6
6	3.6	3.3	5.8	2.22	17	1.8	10	7.1	7.4	4.8	3.6	3.8
7	4.0	4.0	5.8	2,240	18	2.8	9.9	8.3	5.4	4.6	3.8	4.2
8	3.3	3.8	5.8	1,030	16	1.38	9.3	11	6.4	3.3	4.2	3.8
9	3.1	3.6	5.6	2.50	16	6.9	10	9.6	6.6	3.3	4.4	3.8
10	3.8	3.3	4.8	1.47	14	4.4	1.3	9.3	5.4	3.1	4.0	3.1
11	3.3	3.1	5.4	8.5	14	3.9	9.9	9.3	5.1	3.6	3.8	3.3
12	3.3	3.1	6.1	7.0	1.5	3.3	9.3	9.0	5.1	3.3	3.8	3.8
13	3.3	3.3	5.6	6.6	1.7	2.9	9.6	7.7	5.8	3.6	3.8	3.3
14	3.3	2.9	5.8	5.3	1.7	2.5	10	7.7	5.1	4.0	3.3	3.8
15	3.3	3.1	6.8	2.7	1.6	2.4	9.0	7.4	5.6	4.4	3.3	3.3
16	3.3	3.3	6.1	4.2	1.5	1.8	9.0	6.8	5.1	3.6	3.6	3.1
17	3.1	7.3	5.6	6.0	1.5	1.6	7.7	6.6	5.1	3.1	3.8	3.1
18	2.9	2.0	5.8	5.3	1.4	1.5	7.1	6.8	4.6	3.1	3.6	3.8
19	3.8	7.1	5.8	4.6	1.4	1.4	7.7	6.8	4.0	3.1	3.1	3.8
20	3.6	5.1	5.8	4.3	1.9	1.4	8.0	6.8	3.6	2.7	3.3	4.2
21	3.6	4.8	7.1	4.3	1.2	1.4	7.7	6.6	6.1	2.7	2.9	3.8
22	3.3	1.1	1.0	4.0	1.1	1.5	8.0	7.1	4.6	2.7	4.0	3.8
23	3.6	1.6	6.6	3.2	1.2	1.5	8.3	6.8	4.4	3.8	4.2	4.2
24	4.2	6.8	6.6	1.9	1.2	1.4	9.3	5.8	5.1	2.9	4.0	4.2
25	3.6	6.6	6.6	2.6	1.2	1.4	9.3	5.6	4.8	3.1	3.8	4.8
26	3.8	5.6	6.8	2.6	1.2	1.4	9.6	6.8	4.6	3.3	3.8	5.1
27	3.6	5.4	6.8	2.5	1.2	3.0	9.0	5.1	4.2	3.6	3.8	5.1
28	3.1	5.4	6.1	2.3	1.4	3.4	7.7	4.8	4.2	4.0	3.1	4.6
29	2.9	5.4	6.4	2.2	-----	2.0	7.4	5.1	4.8	4.2	3.3	4.8
30	2.9	5.6	6.6	2.2	-----	2.1	7.7	5.8	5.1	3.6	3.8	4.6
31	3.1	-----	6.1	2.2	-----	2.3	-----	6.6	-----	3.6	3.3	-----
TOTAL	107.4	165.2	277.4	5,040.7	426	966	304.5	225.1	162.1	113.9	113.7	118.1
MEAN	3.46	5.51	8.95	163	15.2	31.2	10.2	7.26	5.40	3.67	3.67	3.94
MAX	4.2	2.0	5.3	2,240	21	1.38	1.8	11	7.7	5.8	4.4	5.1
MIN	2.9	2.9	4.8	6.6	1.1	1.4	7.1	4.8	3.6	2.7	2.9	3.1
AC-FT	213	328	550	10,000	845	1,920	604	446	322	226	226	234
CAL YR 1973 TOTAL	12,921.5			35.4	3,340	1.2	25,630					
WTR YR 1974 TOTAL	8,020.1			22.0	2,240	2.7	15,910					

11105850 ARROYO SIMI NEAR SIMI, CALIF.

LOCATION.--Lat 34°16'41", long 118°47'43", on line between secs.7 and 8, T.2N., R.18W., Ventura County, on downstream side of bridge on Los Angeles Avenue, in town of Simi Valley, 0.5 mi (0.8 km) upstream from Brea Canyon, and 1.1 mi (1.8 km) northwest of Simi.

DRAINAGE AREA.--70.6 mi² (182.9 km²).

PERIOD OF RECORD.--October 1933 to September 1951, October 1952 to current year. Monthly discharge, in acre-feet only, for October 1933 to September 1951, October 1952 to October 1968, published in WSP 2128.

GAGE.--Water-stage recorder. Datum of gage is 700.59 ft (213.540 m) above mean sea level, revised, (levels by Ventura County Flood Control District).

AVERAGE DISCHARGE.--6 years (1969-74), 7.62 ft³/s (0.216 m³/s) 5,520 acre-feet/yr (6.81 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,760 ft³/s (78.2 m³/s) Jan. 7 (gage height, 3.42 ft or 1.042 m); minimum daily, 0.05 ft³/s (0.001 m³/s) many days.
Period of record: Maximum discharge, 6,330 ft³/s (179 m³/s) Feb. 25, 1969 (gage height, 5.7 ft or 1.74 m, from floodmark); no flow at times in some years.

REMARKS.--Records good above 1 ft³/s (0.028 m³/s) and poor below. No regulation above station. Pumping from wells for irrigation. City of Simi Valley intermittently discharged ground water into channel from extraction wells this year. Records of suspended-sediment discharge for the current year are published in Part 2 of this report.

COOPERATION.--Records furnished by Ventura County Flood Control District and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	.05	21	1.6	.14	.23	.33	.16	3.8	1.0	2.0	5.6
2	.05	.05	.76	.05	.14	52	3.1	.16	3.8	1.0	.59	6.3
3	.05	.06	.16	3.0	.14	19	.33	.16	3.3	.16	.55	5.6
4	.05	.07	.16	246	.16	1.3	.33	.16	3.3	1.0	.55	5.0
5	.05	.08	.16	31	.16	1.3	.33	.16	3.8	1.0	1.4	3.8
6	.05	.09	.16	89	.18	1.0	.33	.33	3.3	1.0	1.8	5.0
7	.05	.10	.16	869	.20	29	.33	.16	2.8	1.0	1.8	4.4
8	.05	.11	.16	83	.20	84	.55	.16	1.0	1.0	6.3	4.4
9	.05	.12	.33	4.4	.20	.33	.33	.76	.16	1.0	4.2	6.3
10	.05	.13	.16	1.3	.18	.33	.33	1.3	1.7	1.0	2.8	6.3
11	.05	.14	.16	1.3	.18	.33	.55	1.6	2.8	1.6	3.3	4.7
12	.05	.16	.16	1.3	.18	.33	.55	1.6	2.4	1.3	3.1	.55
13	.05	.16	.16	1.0	.15	.33	.33	1.6	1.3	1.3	.33	2.1
14	.05	.16	.16	1.0	.15	.33	.33	1.6	1.3	1.6	1.9	7.8
15	.05	.16	.16	.76	.15	.33	.33	2.0	2.8	2.0	4.4	7.0
16	.05	3.9	.16	11	.15	.16	.33	2.8	2.8	2.0	.76	7.0
17	.05	13	.16	19	.18	.33	.33	2.8	2.8	2.0	2.0	6.3
18	.05	25	.05	.76	.18	.16	.33	2.8	2.4	2.0	2.4	6.3
19	.05	.16	.05	.55	.20	.16	.33	2.8	1.3	2.0	3.3	3.6
20	.05	.16	.05	9.2	.20	.16	.33	2.8	.76	2.0	2.8	1.0
21	.05	.16	.81	.09	.23	.16	.33	2.8	.16	2.0	2.8	5.6
22	.05	61	9.6	.09	.23	.16	.33	2.8	.16	2.0	1.6	5.6
23	.05	4.2	.16	.09	.23	.16	.33	2.8	.33	2.0	3.3	5.6
24	.05	.33	.05	.09	.23	.16	.55	2.8	.33	2.0	5.0	4.4
25	.05	.33	.16	.09	.23	.16	.16	2.8	.33	2.0	4.4	2.8
26	.05	.55	.16	.09	.23	.33	.16	2.8	.76	2.0	3.8	2.8
27	.05	.16	.55	.09	.23	6.3	.16	2.0	.76	2.4	3.8	6.2
28	.05	.16	.33	.09	.23	.16	.16	2.0	1.0	3.3	5.0	.55
29	.05	.16	.16	.09	-----	.16	.33	3.3	1.3	5.0	5.0	.55
30	.05	.16	.16	.09	-----	5.0	.16	3.3	1.6	3.3	5.0	.33
31	.05	-----	.16	.09	-----	.33	-----	2.8	-----	2.0	2.8	-----
TOTAL	1.55	111.07	36.78	1,375.21	5.26	204.19	12.70	56.11	54.35	54.96	88.78	133.48
MEAN	.050	3.70	1.19	44.4	.19	6.59	.42	1.81	1.81	1.77	2.86	4.45
MAX	.05	61	21	869	.23	84	3.1	3.3	3.8	5.0	6.3	7.8
MIN	.05	.05	.05	.05	.14	.16	.16	.16	.16	.16	.33	.33
AC-FT	3.1	220	73	2,730	10	405	25	111	108	109	176	265

CAL YR 1973 TOTAL 2,190.75 MEAN 6.00 MAX 646 MIN .02 AC-FT 4,350
WTR YR 1974 TOTAL 2,134.44 MEAN 5.85 MAX 869 MIN .05 AC-FT 4,230

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-22	1930	1.98	622	1-7	2020	3.42	2,700
1-4	0810	2.47	1,160				

NOTE.--No gage-height record Oct. 1 to Nov. 11, Nov. 19-21, Jan. 21 to Mar. 1, Mar. 9-14.

11106400 CONEJO CREEK ABOVE HIGHWAY 101, NEAR CAMARILLO, CALIF.

LOCATION.--Lat 34°14'12", long 118°57'50", Ventura County, on left bank 2.6 mi (4.2 km) upstream from U.S. Highway 101, and 4.4 mi (7.1 km) northeast of Camarillo.

DRAINAGE AREA.--64.2 mi² (166.3 km²).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 180 ft (55 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 4,090 ft³/s (116 m³/s) Jan. 7 (gage height, 6.55 ft or 1.996 m); minimum daily, 3.6 ft³/s (0.10 m³/s) July 18.

Period of record: Maximum discharge, 5,740 ft³/s (163 m³/s) Feb. 11, 1973 (gage height, 7.35 ft or 2.240 m); minimum daily, 0.13 ft³/s (0.004 m³/s) May 31, 1973.

REMARKS.--Records good. No regulation or diversion above station.

COOPERATION.--Records furnished by Ventura County Flood Control District and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	8.0	36	8.0	10	13	9.0	7.0	7.5	7.5	7.0	7.0
2	9.6	8.5	11	8.0	9.6	78	26	7.0	7.5	7.5	7.5	7.0
3	7.7	8.5	9.6	8.0	9.6	41	8.5	7.5	8.5	6.5	7.0	8.0
4	6.5	8.5	9.6	257	10	11	8.5	7.0	8.5	6.5	6.5	8.0
5	8.0	9.0	9.6	53	9.6	8.5	8.0	7.5	8.0	6.5	6.5	8.0
6	8.0	8.5	9.6	104	9.0	9.0	8.0	8.0	8.0	7.0	6.5	7.5
7	8.0	8.5	8.0	1,330	9.6	29	8.0	8.0	8.5	7.0	7.0	7.5
8	8.0	8.5	7.5	141	10	126	8.0	7.5	8.5	7.0	7.5	7.5
9	8.0	8.5	7.0	29	11	8.5	8.0	7.5	8.0	9.0	7.0	7.5
10	8.0	8.5	7.0	18	9.0	8.5	7.5	8.0	8.5	7.5	7.5	8.0
11	8.0	9.0	7.0	15	8.5	8.5	7.5	8.0	9.0	6.5	7.0	8.0
12	8.0	9.6	7.0	15	8.0	8.5	7.5	8.0	8.5	7.0	7.5	8.0
13	8.5	7.0	7.8	14	8.5	8.5	7.5	8.0	8.5	6.5	7.5	8.0
14	7.5	10	8.0	14	8.0	8.5	8.0	8.5	8.0	5.6	8.0	7.5
15	8.0	9.0	7.5	13	8.0	8.5	8.0	7.5	8.0	6.5	7.0	7.5
16	8.0	9.0	8.0	22	8.0	8.0	8.0	7.5	7.5	7.0	7.0	8.0
17	9.0	14	8.5	42	9.6	8.0	8.0	7.0	7.5	4.8	7.0	8.0
18	9.0	57	7.5	14	9.6	8.5	8.0	7.0	8.0	3.6	7.0	8.0
19	8.0	13	8.0	15	9.6	8.5	8.5	7.0	8.0	6.5	7.0	8.0
20	8.0	9.0	8.0	24	9.0	9.1	8.5	7.5	7.5	6.5	7.5	8.0
21	8.0	8.0	9.0	11	9.6	6.4	8.5	7.5	7.5	6.5	7.5	7.5
22	8.5	54	19	9.0	9.6	8.5	9.0	8.0	7.5	7.0	7.5	8.0
23	8.6	32	8.0	10	9.0	8.0	8.0	7.5	7.5	7.5	7.5	8.0
24	8.6	11	8.0	11	8.5	8.5	7.5	8.0	7.5	7.0	7.0	8.0
25	8.5	8.0	7.5	11	9.6	8.0	7.0	7.0	7.5	7.0	7.0	8.0
26	9.5	8.5	7.0	11	9.6	8.0	7.0	7.0	7.0	7.0	7.0	8.0
27	8.6	7.5	8.0	12	9.6	20	7.0	7.0	7.0	7.0	7.0	8.0
28	8.0	7.0	8.5	11	9.6	9.6	7.0	7.5	7.0	6.5	7.5	6.1
29	9.0	7.5	8.0	11	-----	9.0	7.0	7.5	7.0	6.5	7.5	7.0
30	9.0	7.0	8.0	11	-----	13	7.0	7.5	7.0	7.5	8.0	7.5
31	8.5	-----	8.0	10	-----	10	-----	8.0	-----	7.0	8.0	-----
TOTAL	263.9	497.1	289.9	2,262.0	259.3	526.1	253.0	233.5	234.5	209.0	224.0	231.1
MEAN	8.51	13.2	9.35	73.0	9.26	17.0	8.43	7.53	7.82	6.74	7.23	7.70
MAX	9.6	67	36	1,330	11	126	26	8.5	9.0	9.0	8.0	8.0
MIN	6.5	7.0	7.0	8.0	8.0	6.4	7.0	7.0	7.0	3.6	6.5	6.1
AC-FT	523	783	575	4,490	514	1,040	502	463	465	415	444	458
CAL YR 1973	TOTAL 6,146.13	MEAN 16.8	MAX 1,240	MIN .13	AC-FT 12,190							
WTR YR 1974	TOTAL 5,383.40	MEAN 14.7	MAX 1,330	MIN 3.6	AC-FT 10,680							

PEAK DISCHARGE (BASE, 400 FT ³ /S, REVISED)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-18	0300	3.76	696	1-7	2130	6.55	4,090
11-22	2200	4.10	940	3-8	2400	2.78	410
1-4	0900	4.46	1,250				

11106550 CALLEGUAS CREEK AT CAMARILLO STATE HOSPITAL, CALIF.

LOCATION.--Lat 34°10'46", long 119°02'20", in Guadalupe Grant, Ventura County, on downstream side of county road bridge, 1.0 mi (1.6 km) northeast of Camarillo State Hospital, and 1.4 mi (2.3 km) downstream from Conejo Creek.

DRAINAGE AREA.--248 mi² (642 km²)

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 58.42 ft (17.806 m) above mean sea level (levels by Ventura County Flood Control District).

AVERAGE DISCHARGE.--6 years, 26.4 ft³/s (0.748 m³/s), 19,130 acre-ft/yr (23.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 5,540 ft³/s (157 m³/s) Jan. 7 (gage height, 5.45 ft or 1.661 m); minimum daily, 0.73 ft³/s (0.021 m³/s) July 25, 26.
Period of record: Maximum discharge, 16,300 ft³/s (462 m³/s) Feb. 25, 1969 (gage height, 8.50 ft or 2.591 m); no flow at times in some years.

REMARKS.--Records good. No regulation above station. Pumping for irrigation in valley above station. Sustained flow from city of Thousand Oaks reclamation plant. Records of suspended-sediment discharge for the current year are published in Part 2 of this report.

COOPERATION.--Records furnished by Ventura County Flood Control District and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	7.1	35	11	9.5	11	11	7.1	3.3	2.9	7.1	6.4
2	5.7	7.6	22	8.6	9.5	115	23	6.4	3.9	2.9	7.1	6.4
3	5.0	8.6	11	5.7	7.6	40	11	6.4	3.9	2.4	5.7	6.4
4	5.0	7.6	11	296	7.6	11	9.5	6.4	5.7	2.9	7.1	6.4
5	6.4	7.1	9.5	92	7.6	8.6	8.6	7.1	5.7	2.1	3.8	6.4
6	6.4	5.0	7.1	111	7.6	8.6	9.5	7.6	5.0	2.4	2.9	3.8
7	6.4	7.6	5.7	1,950	7.6	11	7.6	8.6	6.4	2.9	2.9	6.4
8	7.6	8.6	5.7	523	7.6	212	9.5	7.6	7.6	3.9	3.3	6.4
9	9.5	8.6	5.0	44	7.6	11	11	6.4	5.7	3.3	4.4	6.4
10	8.6	7.1	5.7	23	7.6	11	11	6.4	5.7	2.4	2.9	7.6
11	7.1	7.1	5.7	18	7.6	11	8.6	6.4	5.0	2.4	5.0	7.1
12	6.4	7.6	5.7	17	7.6	11	8.6	7.1	5.0	3.3	4.4	7.1
13	6.4	7.6	5.0	16	8.6	11	7.6	6.4	4.4	2.9	7.1	5.7
14	7.1	5.0	5.0	14	7.6	11	7.1	6.4	4.4	2.4	7.1	5.7
15	7.6	4.4	5.0	14	7.1	11	7.1	6.4	5.0	2.4	5.0	5.7
16	8.6	4.4	4.4	16	7.6	11	7.6	6.4	4.4	3.9	5.0	5.7
17	7.1	8.6	5.0	51	8.6	11	7.6	7.1	4.4	3.9	5.0	5.7
18	7.6	79	5.7	20	7.6	11	8.6	7.6	3.9	.90	5.0	5.7
19	7.1	13	5.7	14	8.6	11	9.5	7.6	2.9	1.4	5.0	5.7
20	7.1	7.1	3.8	20	8.6	11	8.6	7.1	2.1	2.1	6.4	7.1
21	7.6	7.1	6.4	20	8.6	11	7.6	7.1	2.9	2.1	5.0	7.1
22	5.7	12	34	13	8.6	8.6	7.6	6.4	3.3	1.7	7.1	7.1
23	6.4	112	11	11	8.6	8.6	7.6	6.4	3.8	3.3	8.6	7.1
24	6.4	11	8.6	9.5	7.6	9.5	7.6	6.4	2.9	2.1	8.6	5.7
25	5.0	9.5	8.6	8.6	7.6	12	7.1	5.7	3.8	.73	6.4	7.1
26	5.0	11	8.6	11	8.6	11	7.1	4.4	2.4	.73	6.4	6.4
27	6.4	9.5	8.6	9.5	8.6	23	7.1	5.7	2.4	2.1	8.6	7.1
28	6.4	8.6	8.6	9.5	9.5	12	7.1	5.7	2.4	1.4	8.6	6.4
29	6.4	7.6	8.6	8.6	-----	9.5	6.4	4.4	2.4	3.8	8.6	6.4
30	8.6	7.6	8.6	9.5	-----	12	7.1	3.9	2.9	5.0	7.6	7.6
31	7.6	-----	7.1	9.5	-----	14	-----	4.4	-----	5.7	7.1	-----
TOTAL	209.9	414.6	287.4	3,384.0	227.0	680.4	264.9	199.0	123.6	82.36	184.8	191.8
MEAN	6.77	13.8	9.27	109	8.11	21.9	8.83	6.42	4.12	2.66	5.96	6.39
MAX	9.5	112	35	1,950	9.5	212	23	8.6	7.6	5.7	8.6	7.6
MIN	5.0	4.4	3.8	5.7	7.1	8.6	6.4	3.9	2.1	.73	2.9	3.8
AC-FT	416	822	570	6,710	450	1,350	525	395	245	163	367	380

CAL YR 1973 TOTAL 7,669.23 MEAN 21.0 MAX 1,890 MIN .73 AC-FT 15,210
WTR YR 1974 TOTAL 6,249.76 MEAN 17.1 MAX 1,950 MIN .73 AC-FT 12,400

PEAK DISCHARGE (BASE, 300 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-23	0300	2.70	500	3-2	0800	2.09	340
1-4	1130	3.55	1,537	3-8	0800	2.29	486
1-7	2230	5.45	5,540				

11107745 SANTA CLARA RIVER ABOVE RAILROAD STATION, NEAR LANG, CALIF.

LOCATION.--Lat 34°25'52", long 118°21'22", in SE¼SW¼NW¼ sec.16, T.4 N., R.14 W., Los Angeles County, on downstream side of railroad bridge, 1.1 mi (1.8 km) east of Lang Railroad Station, 1.9 mi (3.1 km) downstream from Aqua Dulce Canyon, and 5.2 mi (8.4 km) northeast of Solemint.

DRAINAGE AREA.--157 mi² (407 km²).

PERIOD OF RECORD.--October 1949 to September 1968, October 1969 to current year. Monthly discharge only for 1950-70 published in 1971 report. Daily discharge available in historical computer files.

GAGE.--Water-stage recorder. Altitude of gage is 1,750 ft (533 m), from topographic map. Prior to Apr. 3, 1970, at site 0.4 mi (0.6 km) downstream at different datum.

AVERAGE DISCHARGE.--24 years (1949-69, 1970-74), 4.99 ft³/s (0.141 m³/s), 3,620 acre-ft/yr (4.46 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 264 ft³/s (7.48 m³/s) Jan. 7 (gage height, 3.34 ft or 1.018 m); no flow Aug. 22 to Sept. 30.

Period of record: Maximum discharge, 5,910 ft³/s (167 m³/s), estimated, Feb. 25, 1969; no flow at times in some years.

REMARKS.--Records poor. No regulation above station. Small diversions for irrigation and recreation.

COOPERATION.--Records furnished by Los Angeles County Flood Control District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.10	.30	.80	3.5	4.0	4.9	2.0	1.2	.50	.20	
2	.10	.10	.40	.80	3.5	5.8	4.6	2.0	1.4	.50	.20	
3	.10	.10	.40	.80	3.8	6.6	4.2	2.2	1.2	.50	.20	
4	.10	.10	.50	1.8	4.6	5.1	3.8	2.7	1.2	.50	.20	
5	.05	.10	.40	2.7	4.4	4.6	3.3	3.1	1.1	.50	.20	
6	.03	.10	.50	10	4.4	4.6	2.2	3.1	1.1	.40	.20	
7	.03	.10	.50	70	4.4	5.3	2.9	2.9	1.1	.40	.20	
8	.03	.10	.60	57	4.2	13	2.7	2.7	.70	.50	.20	
9	.03	.10	.70	16	4.4	10	3.1	2.9	.70	.40	.20	
10	.03	.10	.80	11	4.2	9.4	3.5	3.1	.90	.40	.20	
11	.03	.10	.80	10	4.0	8.5	3.5	3.1	1.0	.30	.20	
12	.03	.10	.80	9.6	4.0	7.6	3.1	2.7	2.3	.30	.20	
13	.03	.10	.90	9.0	4.0	7.2	3.1	3.8	1.0	.20	.20	
14	.03	.05	.80	8.3	4.0	7.1	3.5	2.5	.90	.20	.20	
15	.03	.05	.80	7.6	4.0	6.9	3.3	1.6	.80	.10	.10	
16	.03	.05	.80	6.6	4.0	6.8	3.1	1.6	.80	.10	.10	
17	.03	.05	.70	6.9	4.2	6.6	3.1	1.4	.70	.10	.07	
18	.03	.30	.80	6.6	4.2	6.4	3.1	1.6	.70	.10	.05	
19	.03	.10	.60	6.3	4.2	6.3	3.1	2.2	.70	.10	.03	
20	.05	.10	.60	6.3	4.2	6.1	2.7	2.2	.60	.10	.03	
21	.05	.20	.70	6.3	4.0	5.8	2.9	2.2	.50	.10	.03	
22	.10	.20	.80	6.1	4.0	5.8	2.9	2.0	.50	.20	0	
23	.10	.20	.90	6.1	4.2	5.8	2.7	1.6	.40	.30	0	
24	.10	.20	1.0	5.8	4.2	5.6	2.9	1.6	.40	.30	0	
25	.05	.10	.90	5.6	4.4	5.3	3.1	1.4	.40	.30	0	
26	.05	.10	1.0	5.3	4.0	5.3	3.3	1.4	.40	.30	0	
27	.05	.20	.90	5.1	4.0	5.6	3.3	1.2	.50	.20	0	
28	.05	.20	.80	4.9	4.2	5.3	2.9	1.1	.50	.20	0	
29	.05	.20	.80	4.6	-----	5.1	2.7	1.0	.50	.20	0	
30	.10	.20	.80	4.4	-----	5.1	2.2	1.0	.50	.10	0	
31	.10	-----	.80	4.4	-----	4.9	-----	1.0	-----	.10	0	-----
TOTAL	1.72	3.80	22.10	306.70	115.2	197.5	95.7	64.9	24.70	8.50	3.21	0
MEAN	.056	.13	.71	9.89	4.11	6.37	3.19	2.09	.82	.27	.10	0
MAX	.10	.30	1.0	70	4.6	13	4.9	3.8	2.3	.50	.20	0
MIN	.03	.05	.30	.80	3.5	4.0	2.2	1.0	.40	.10	0	0
AC-FT	3.4	7.5	44	608	228	392	190	129	49	17	6.4	0
CAL YR 1973	TOTAL	1,855.12	MEAN	5.08	MAX	433	MIN	.03	AC-FT	3,680		
WTR YR 1974	TOTAL	844.03	MEAN	2.31	MAX	70	MIN	0	AC-FT	1,670		

SANTA CLARA RIVER BASIN

11107860 BOUQUET CREEK NEAR SAUGUS, CALIF.

LOCATION.--Lat 34°26'56", long 118°30'22", in NE¼SW¼NE¼ sec.12, T.4 N., R.16 W., Los Angeles County, on left bank 50 ft (15 m) upstream from Urbandale Avenue bridge, 0.3 mi (0.5 km) upstream from Haskell Canyon, and 3.2 mi (5.1 km) northeast of Saugus.

DRAINAGE AREA.--51.6 mi² (133.6 km²).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,305 ft (398 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 19 ft³/s (0.54 m³/s) Jan. 7 (gage height, 2.17 ft or 0.661 m); no flow for long periods.

Period of record: Maximum discharge, 750 ft³/s (21.2 m³/s) Feb. 11, 1973 (gage height, 3.04 ft or 0.927 m); no flow at times in each year.

REMARKS.--Records poor. Partial regulation by Bouquet Reservoir, capacity, 36,500 acre-ft (45.0 hm³), principally used as equalizing reservoir to city of Los Angeles aqueduct. Some pumping by wells for irrigation.

COOPERATION.--Records furnished by Los Angeles County Flood Control District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0		0						
2				0		.06						
3				0		.06						
4				.40		0						
5				1.7		0						
6				1.1		0						
7				8.4		.20						
8				2.8		1.8						
9				0		0						
10				0		0						
11				0		0						
12				0		0						
13				0		0						
14				0		0						
15				0		0						
16				0		0						
17				.02		0						
18				0		0						
19				0		0						
20				0		0						
21				0		0						
22				0		0						
23				0		0						
24				0		0						
25				0		0						
26				0		0						
27				0		0						
28				0		0						
29				0	-----	0						
30				0	-----	0						
31	-----			0	-----	0	-----		-----			-----
TOTAL	0	0	0	14.42	0	2.12	0	0	0	0	0	0
MEAN	0	0	0	.47	0	.068	0	0	0	0	0	0
MAX	0	0	0	8.4	0	1.8	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	29	0	4.2	0	0	0	0	0	0
CAL YR 1973	TOTAL	149.60	MEAN	.41	MAX	81	MIN	0	AC-FT	297		
WTR YR 1974	TOTAL	16.54	MEAN	.045	MAX	8.4	MIN	0	AC-FT	33		

11108145 CASTAIC CREEK NEAR SAUGUS, CALIF.

LOCATION.--Lat 34°25'42", long 118°37'40", in San Francisco Grant, Los Angeles County, on downstream side of bridge on State Highway 126, 0.6 mi (1.0 km) upstream from mouth, 4.6 mi (7.4 km) southwest of Castaic, and 5.1 mi (8.2 km) northwest of Saugus.

DRAINAGE AREA.--202 mi² (523 km²).

PERIOD OF RECORD.--December 1945 to current year. Monthly discharge only for 1947-70 published in WRD Calif., 1971. Daily discharge available in historical computer files.

GAGE.--Water-stage recorder. Datum of gage is 952.05 ft (290.185 m) above mean sea level (levels by Los Angeles County Flood Control District).

AVERAGE DISCHARGE.--28 years (1946-74), 12.1 ft³/s (0.343 m³/s), 8,770 acre-ft/yr (10.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge not determined, probably occurred Jan. 8 (gage height unknown); no flow for many days.

Period of record: Maximum discharge, 19,300 ft³/s (547 m³/s) Feb. 25, 1969, result of slope-area measurement of maximum flow; no flow for all or long periods in each year.

REMARKS.--Records poor. Flow regulated beginning in 1972 by Castaic Reservoir, capacity, 350,000 acre-ft (432 hm³). Imported water from California Water Project stored and released at Castaic Dam.

COOPERATION.--Records furnished by Los Angeles County Flood Control District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.50	0	.30	21	7.2	16	6.1	1.8	1.7		
2	0	.30	.20	.30	17	14	22	5.5	1.6	1.7		
3	0	.20	.30	.30	18	17	17	6.1	1.5	1.7		
4	0	0	.30	3.3	19	13	8.2	7.2	1.3	1.5		
5	0	0	.30	3.5	19	13	6.6	9.0	1.1	1.4		
6	0	0	.30	4.8	20	11	9.4	10	1.3	1.2		
7	0	0	.30	62	20	12	9.4	9.8	1.5	1.0		
8	0	0	.30	474	19	57	7.8	10	1.7	.80		
9	0	0	.30	240	18	54	7.8	9.0	2.0	.70		
10	0	0	.30	70	17	109	16	9.8	2.2	.50		
11	0	0	.20	60	21	92	10	10	2.4	.50		
12	0	0	.30	61	23	49	8.2	12	2.6	.50		
13	0	0	.30	59	22	50	8.6	12	2.8	.40		
14	0	0	.30	42	15	20	9.0	11	2.8	.40		
15	0	0	.30	25	17	17	10	10	2.7	.40		
16	0	0	.50	26	14	16	9.8	11	2.7	.40		
17	0	0	.30	46	21	14	11	14	2.6	.30		
18	0	0	.30	171	13	12	10	13	2.6	.30		
19	0	0	.30	26	9.0	11	18	10	2.5	.30		
20	0	0	.20	24	8.6	10	14	13	2.5	.30		
21	0	0	.20	24	8.2	9.4	12	9.8	2.4	.20		
22	0	0	.30	21	6.9	9.8	11	7.8	2.3	.20		
23	0	0	.20	22	7.2	10	10	7.1	2.2	.20		
24	0	0	0	22	7.5	10	10	6.4	2.1	.20		
25	0	0	0	22	9.0	11	11	5.7	2.0	.10		
26	0	0	.20	22	8.6	12	14	5.0	1.9	.10		
27	.20	0	.20	20	8.2	13	15	4.3	1.8	.10		
28	.20	0	.20	20	7.2	16	11	3.6	1.8	.10		
29	0	0	.20	20	-----	18	7.5	2.9	1.8	0		
30	.20	0	.20	20	-----	19	6.4	2.2	1.8	0		
31	.30	-----	.20	19	-----	28	-----	2.0	-----	0		
TOTAL	.90	1.00	7.50	1,630.50	414.4	754.4	336.7	255.3	62.3	17.20	0	0
MEAN	.029	.033	.24	52.6	14.8	24.3	11.2	8.24	2.08	.55	0	0
MAX	.30	.50	.50	474	23	109	22	14	2.8	1.7	0	0
MIN	0	0	0	.30	6.9	7.2	6.4	2.0	1.1	0	0	0
AC-FT	1.8	2.0	15	3,230	822	1,500	668	506	124	34	0	0

CAL YR 1973 TOTAL 8,107.20 MEAN 22.2 MAX 1,910 MIN 0 AC-FT 16,080
WTR YR 1974 TOTAL 3,480.20 MEAN 9.53 MAX 474 MIN 0 AC-FT 6,900

NOTE.--No gage-height record Jan. 8.

11108500 SANTA CLARA RIVER AT LOS ANGELES-VENTURA COUNTY LINE, CALIF.

LOCATION.--Lat 34°23'59", long 118°42'14", in San Francisco Grant, Ventura County, on downstream end of old diversion weir on right bank, 0.8 mi (1.3 km) west of Los Angeles-Ventura County line.

DRAINAGE AREA.--644 mi² (1,668 km²).

PERIOD OF RECORD.--October 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is 794.93 ft (242.295 m) above mean sea level.

AVERAGE DISCHARGE.--22 years, 37.3 ft³/s (1.056 m³/s), 27,020 acre-ft/yr (33.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 5,150 ft³/s (146 m³/s) Jan. 7 (gage height, 6.16 ft or 1.878 m); minimum daily, 4.9 ft³/s (0.14 m³/s) June 23, 24.

Period of record: Maximum discharge, 68,800 ft³/s (1,950 m³/s) Jan. 25, 1969 (gage height, 19.01 ft or 5.794 m), from rating curve extended above 9,200 ft³/s (261 m³/s) on basis of field estimate of maximum flow; no flow at times in some years.

REMARKS.--Records fair. Base flow affected by pumping from wells along stream for irrigation. Flow partly regulated since January 1972 by Castaic Reservoir, capacity, 324,000 acre-ft (399 hm³). Imported water from California Water Project stored and released at Castaic Dam. Records of chemical analyses, water temperatures, and sediment discharge for the current year are published in Part 2 of this report.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	12	25	24	41	38	35	17	9.6	7.0	10	12
2	5.3	12	21	20	45	47	36	17	11	7.4	8.6	12
3	5.3	12	21	20	44	41	31	16	11	7.4	8.1	12
4	5.3	12	21	76	47	40	28	16	11	6.6	8.2	11
5	5.3	14	20	96	48	42	27	17	12	7.9	9.4	12
6	5.3	14	20	164	49	48	27	17	13	11	8.9	12
7	6.0	13	20	2,080	48	50	32	17	12	12	10	12
8	6.2	14	20	800	49	389	28	16	10	12	12	12
9	6.0	13	19	303	50	95	27	16	8.3	12	14	13
10	5.9	12	20	173	47	88	28	17	7.9	11	12	12
11	5.8	12	21	130	49	76	28	16	7.9	12	12	12
12	5.8	12	21	100	52	70	27	15	7.9	10	13	12
13	5.8	12	21	90	55	74	26	18	8.3	10	14	12
14	5.7	12	20	78	53	66	25	17	8.3	12	15	12
15	5.6	13	20	68	52	64	25	16	7.4	12	14	11
16	5.6	14	19	70	53	63	25	17	7.0	12	14	12
17	5.5	15	18	63	54	59	25	17	7.0	10	13	11
18	5.5	20	17	106	48	61	25	16	7.0	9.6	12	12
19	5.4	17	16	44	45	57	27	16	7.4	9.0	14	12
20	5.4	17	17	48	46	61	25	16	7.4	9.0	16	11
21	5.4	17	19	49	43	55	21	15	7.0	7.9	16	12
22	5.4	17	20	48	42	48	22	15	6.6	7.9	14	12
23	14	21	16	47	39	42	20	15	4.9	8.2	14	11
24	13	14	17	47	38	40	18	13	4.9	8.0	12	9.0
25	12	15	18	47	39	39	19	12	5.7	6.8	12	11
26	11	16	20	46	39	38	20	12	5.7	6.9	11	11
27	10	18	20	46	38	36	19	12	5.3	6.5	11	11
28	9.6	18	20	46	36	35	19	12	5.3	6.5	11	11
29	9.3	20	21	46	-----	33	20	12	5.3	8.2	11	11
30	12	19	22	41	-----	33	17	11	5.7	9.0	12	10
31	12	-----	22	41	-----	34	-----	12	-----	11	12	-----
TOTAL	225.7	447	612	5,057	1,289	1,962	752	471	237.8	286.8	374.2	346.0
MEAN	7.28	14.9	19.7	163	46.0	63.3	25.1	15.2	7.93	9.25	12.1	11.5
MAX	14	21	25	2,080	55	389	36	18	13	12	16	13
MIN	5.3	12	16	20	36	33	17	11	4.9	6.5	8.1	9.0
AC-FT	448	887	1,210	10,030	2,560	3,890	1,490	934	472	569	742	686

CAL YR 1973 TOTAL 26,535.0 MEAN 72.7 MAX 4,480 MIN 5.3 AC-FT 52,630
WTR YR 1974 TOTAL 12,060.5 MEAN 33.0 MAX 2,080 MIN 4.9 AC-FT 23,920

PEAK DISCHARGE (BASE, 750 FT³/S).--Jan. 7 (2330) 5,150 ft³/s (6.16 ft); Mar. 8 (0600) 892 ft³/s (4.74 ft).

11109100 PIRU CREEK BELOW THORN MEADOWS, NEAR STAUFFER, CALIF.

LOCATION.--Lat 34°38'21", long 119°05'43", in SW¼NE¼SW¼ sec.3, T.6 N., R.21 W., Ventura County, on right bank 1.3 mi (2.1 km) northeast of Thorn Meadows, and 8 mi (13 km) southwest of Stauffer.

DRAINAGE AREA.--22.5 mi² (58.3 km²).

PERIOD OF RECORD.--October 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,280 ft (1,305 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 193 ft³/s (5.47 m³/s) Mar. 2 (gage height, 2.96 ft or 0.902 m), from rating curve extended as explained below; no flow Aug. 17 to Sept. 30.

Period of record: Maximum discharge, 1,660 ft³/s (47.0 m³/s) Feb. 11, 1973 (gage height, 5.37 ft or 1.637 m, from floodmarks), from rating curve extended above 60 ft³/s (1.70 m³/s) on basis of slope-area measurement of maximum flow; no flow many days in each year.

REMARKS.--Records poor. No regulation or diversion above station.

COOPERATION.--Twelve discharge measurements furnished by Ventura County Flood Control District.

REVISIONS.--Revised figures of discharge, in cubic feet per second, for the water year 1973, superseding those published in WRD Calif. 1973, are given herewith:

Date	Discharge	Date	Discharge		
1973		1973-Con.			
Sept. 13	0.02	Sept. 23	0.06		
15	.04	24	.06		
16	.06	25	.04		
17	.06	26	.04		
18	.06	27	.08		
19	.08	28	.06		
20	.06	29	.06		
21	.06	30	.06		
22	.06				
Month	Cfs-days	Max	Min	Mean	Ac-ft
September 1973	0.97	0.08	0	0.032	1.9
WTR YR 1973	3,688.3	358	0	10.1	5,310

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	.03	29	.92	8.0	13	8.4	3.0	.85	.20	.03	
2	.04	.03	5.4	.80	8.4	104	8.1	2.9	.82	.19	.02	
3	.08	.03	2.6	.65	8.0	25	7.8	2.8	.80	.17	.02	
4	.08	.03	1.8	4.0	8.0	22	7.6	2.7	.77	.16	.02	
5	.06	.03	1.3	3.1	8.0	23	7.2	2.6	.75	.15	.02	
6	.06	.03	1.2	2.4	7.3	21	7.0	2.5	.72	.14	.02	
7	.06	.03	1.1	14	10	23	6.8	2.3	.70	.12	.02	
8	.04	.02	1.1	12	7.0	23	6.6	2.2	.67	.11	.02	
9	.08	.02	.92	3.6	7.0	24	6.4	2.1	.64	.10	.02	
10	.08	.02	.70	4.3	6.6	25	6.1	2.0	.62	.10	.01	
11	.08	.02	.80	4.3	6.6	28	5.9	1.9	.59	.09	.01	
12	.08	.02	.69	6.0	6.3	30	5.7	1.8	.57	.08	.01	
13	.08	.04	.80	7.0	6.2	28	5.6	1.8	.54	.08	.01	
14	.08	.04	1.0	8.2	6.1	26	5.4	1.7	.52	.07	.01	
15	.08	.06	.80	11	6.2	24	5.3	1.6	.50	.07	.01	
16	.08	.06	.80	18	6.4	22	5.1	1.5	.48	.07	.01	
17	.07	.08	.69	92	6.3	20	5.0	1.5	.46	.06	0	
18	.06	3.8	.50	69	6.2	19	4.8	1.4	.44	.06	0	
19	.06	.50	.50	78	6.8	17	4.6	1.3	.42	.06	0	
20	.04	.14	.59	51	6.8	16	4.5	1.3	.40	.05	0	
21	.04	.10	.69	61	6.6	15	4.3	1.2	.37	.05	0	
22	.04	.10	1.2	24	6.4	14	4.2	1.2	.35	.05	0	
23	.04	.10	.69	17	6.4	13	4.1	1.2	.33	.04	0	
24	.04	.18	.69	13	6.2	12	3.9	1.1	.32	.04	0	
25	.04	.23	.80	11	6.2	12	3.8	1.1	.30	.04	0	
26	.04	.23	.80	11	6.1	11	3.6	1.1	.28	.04	0	
27	.04	.14	1.3	9.7	6.4	10	3.5	1.0	.27	.04	0	
28	.03	.14	1.5	9.2	7.3	10	3.4	.98	.25	.03	0	
29	.03	.14	1.1	8.8	-----	9.6	3.3	.94	.23	.03	0	
30	.03	.23	.92	8.0	-----	9.2	3.1	.91	.22	.03	0	
31	.03	-----	.92	8.0	-----	8.8	-----	.88	-----	.03	0	-----
TOTAL	1.75	6.62	62.90	570.97	193.8	657.6	161.1	52.51	15.18	2.55	.26	0
MEAN	.057	.22	2.03	18.4	6.92	21.2	5.37	1.69	.51	.082	.008	0
MAX	.08	3.8	29	92	10	104	8.4	3.0	.85	.20	.03	0
MIN	.03	.02	.50	.65	6.1	8.8	3.1	.88	.22	.03	0	0
AC-FT	3.5	13	125	1,130	384	1,300	320	104	30	5.1	.5	0
CAL YR 1973	TOTAL 3,718.44	MEAN 10.2	MAX 358	MIN 0	AC-FT 7,380							
WTR YR 1974	TOTAL 1,725.24	MEAN 4.73	MAX 104	MIN 0	AC-FT 3,420							

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-1	1045	2.75	120	3-2	0345	2.96	193
1-18	0200	2.94	180	3-4	0830	2.32	63

SANTA CLARA RIVER BASIN

11109200 MIDDLE FORK LOCKWOOD CREEK NEAR STAUFFER, CALIF.

LOCATION.--Lat 34°45'56", long 119°07'12", in SW¼NE¼SE¼ sec.20, T.8 N., R.21 W., Ventura County, on right bank 3.3 mi (5.3 km) upstream from Lockwood Creek, and 3.3 mi (5.3 km) northwest of Stauffer.

DRAINAGE AREA.--5.50 mi² (14.24 km²).

PERIOD OF RECORD.--October 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,530 ft (1,686 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 560 ft³/s (15.9 m³/s) July 23 (gage height, 4.80 ft or 1.463 m); no flow Oct. 1.

Period of record: Maximum discharge, 560 ft³/s (15.9 m³/s) July 23, 1974 (gage height, 4.80 ft or 1.463 m), from rating curve extended above 13 ft³/s (0.37 m³/s) on basis of slope-area measurement of maximum flow; no flow for some days in each year.

REMARKS.--Records fair. No regulation or diversion above station.

COOPERATION.--Seventeen discharge measurements furnished by Ventura County Flood Control District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.07	.75	.07	.62	.46	1.8	.88	.22	.07	1.3	.08
2	.01	.07	.29	.05	.62	1.0	7.3	.88	.21	.07	.90	.08
3	.01	.07	.25	.03	.69	.75	1.7	.78	.19	.07	.78	.08
4	.01	.07	.22	.07	.69	.56	1.6	.70	.19	.07	.69	.08
5	.01	.07	.21	.07	.66	.57	1.5	.70	.19	.07	.38	.08
6	.01	.05	.23	.09	.64	.58	1.4	.70	.19	.07	.25	.08
7	.03	.07	.22	4.4	.62	.65	1.3	.62	.19	.07	.15	.08
8	.05	.07	.22	4.2	.61	3.1	1.3	.62	.21	.07	.10	.08
9	.05	.07	.25	.07	.55	1.3	1.3	.62	.20	.07	.09	.08
10	.04	.05	.23	.09	.51	1.2	1.2	.62	.20	.07	.08	.08
11	.04	.05	.26	.11	.50	1.2	1.1	.55	.19	.08	.07	.08
12	.03	.07	.26	.19	.48	1.3	1.1	.55	.22	.08	.06	.07
13	.03	.07	.27	1.2	.49	1.3	1.1	.48	.22	.08	.06	.06
14	.03	.05	.24	1.5	.47	1.4	1.2	.48	.20	.08	.06	.06
15	.03	.05	.22	4.1	.47	1.3	1.2	.40	.19	.08	.06	.06
16	.03	.03	.19	7.6	.48	1.2	1.5	.35	.19	.08	.06	.06
17	.02	.13	.19	16	.45	1.1	1.5	.44	.16	.08	.06	.06
18	.02	.36	.15	7.5	.46	1.1	1.3	.49	.16	.07	.06	.05
19	.02	.15	.14	5.0	.51	1.1	1.3	.53	.17	.06	.06	.05
20	.03	.15	.11	2.9	.56	1.1	1.3	.52	.17	.07	.06	.05
21	.03	.15	.14	2.5	.43	1.1	1.2	.49	.17	.07	.07	.05
22	.05	.17	.12	1.7	.43	1.1	1.1	.42	.16	.07	.07	.05
23	.07	.16	.12	1.3	.42	1.1	1.1	.36	.13	8.6	.07	.05
24	.07	.16	.10	1.1	.40	1.1	.98	.34	.12	2.0	.07	.05
25	.07	.18	.11	1.0	.41	1.1	1.1	.30	.11	.43	.07	.05
26	.07	.15	.08	.99	.44	1.1	.98	.26	.11	.30	.07	.04
27	.05	.16	.10	.83	.46	.98	.98	.26	.10	.26	.07	.04
28	.05	.18	.11	.79	.42	.88	.88	.26	.10	.26	.07	.04
29	.05	.18	.10	.73	-----	.98	.88	.25	.07	.22	.07	.04
30	.09	.18	.09	.66	-----	1.0	.88	.22	.07	.19	.07	.04
31	.05	-----	.09	.62	-----	.90	-----	.22	-----	.26	.08	-----
TOTAL	1.11	3.44	6.06	67.46	14.49	33.61	43.08	15.29	5.00	14.12	6.11	1.85
MEAN	.036	.11	.20	2.18	.52	1.08	1.44	.49	.17	.46	.20	.062
MAX	.07	.36	.75	16	.69	3.1	7.3	.88	.22	8.6	1.3	.08
MIN	0	.03	.08	.03	.40	.46	.88	.22	.07	.06	.06	.04
AC-FT	2.2	6.8	12	134	29	67	85	30	9.9	28	12	3.7

CAL YR 1973 TOTAL 379.43 MEAN 1.04 MAX 60 MIN 0 AC-FT 753
 WTR YR 1974 TOTAL 211.62 MEAN .58 MAX 16 MIN 0 AC-FT 420

PEAK DISCHARGE (BASE, 100 FT³/S).--July 23 (1600) 560 ft³/s (4.80 ft).

11109250 LOCKWOOD CREEK AT GORGE, NEAR STAUFFER, CALIF.

LOCATION.--Lat 34°43'57", long 119°02'14", in SE¼SW¼SE¼ sec.31, T.8 N., R.20 W., Ventura County, on right bank 2.1 mi (3.4 km) southeast of Stauffer, and 3.8 mi (6.1 km) upstream from Piru Creek.

DRAINAGE AREA.--58.7 mi² (152.0 km²).

PERIOD OF RECORD.--October 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,790 ft (1,460 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 906 ft³/s (25.7 m³/s) Aug. 2 (gage height, 4.92 ft or 1.500 m), from rating curve extended as explained below; minimum daily, 1.0 ft³/s (0.028 m³/s) Aug. 15, 16, 18-20, 22, 23.

Period of record: Maximum discharge, 906 ft³/s (25.7 m³/s) Aug. 2, 1974 (gage height, 4.92 ft or 1.500 m), from rating curve extended above 34 ft³/s (0.96 m³/s) on basis of slope-area measurement at gage height 4.92 ft (1.500 m); minimum daily, 1.0 ft³/s (0.028 m³/s) Aug. 15, 16, 18-20, 22, 23, 1974.

REVISIONS.--The maximum discharge for the water year 1973 has been revised to 867 ft³/s (24.4 m³/s) Feb. 11, 1973 (gage height, 4.83 ft or 1.472 m), superseding figure published in 1973 annual report.

REMARKS.--Records good. No regulation or diversion above station; some pumping from wells along stream.

COOPERATION.--Nineteen discharge measurements furnished by Ventura County Flood Control District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	3.4	4.1	2.5	4.1	3.4	4.1	3.9	2.7	2.5	10	1.3
2	2.5	3.4	3.6	2.5	4.4	16	8.7	3.9	2.5	2.5	71	1.4
3	2.9	3.4	3.4	2.5	3.9	7.0	5.0	3.9	2.3	2.5	5.3	1.4
4	2.9	3.2	3.4	8.3	4.1	4.7	3.9	4.1	2.5	2.5	55	1.5
5	2.9	2.9	3.4	2.5	3.9	3.6	3.9	4.1	2.5	2.5	10	1.7
6	3.2	2.9	3.2	2.5	3.6	4.5	3.8	3.9	2.3	2.3	5.0	1.8
7	3.4	2.9	3.2	18	3.6	4.7	3.8	3.9	2.3	2.0	2.8	2.0
8	3.4	3.2	3.4	17	3.6	5.6	3.8	3.9	2.3	2.2	2.3	2.0
9	3.6	3.2	3.4	3.0	3.9	7.9	3.7	3.9	2.3	2.0	2.2	1.8
10	3.6	3.4	3.4	2.8	3.9	16	3.7	3.9	2.2	2.0	1.8	2.0
11	3.4	3.6	3.4	2.5	3.9	16	3.6	3.9	1.8	2.2	1.7	2.0
12	3.4	3.6	3.4	2.7	3.9	14	3.9	3.6	1.8	2.2	1.4	2.2
13	3.6	3.6	3.4	2.8	4.1	12	3.9	3.6	1.7	2.0	1.3	2.2
14	3.2	3.2	3.6	3.0	4.1	10	3.9	3.6	1.7	2.0	1.2	2.5
15	3.2	3.6	3.6	2.9	4.1	10	4.1	3.9	2.0	2.0	1.0	2.5
16	3.4	3.4	3.6	3.2	3.9	8.3	3.9	3.9	1.8	2.2	1.0	2.7
17	3.5	3.4	3.9	18	3.9	7.4	3.9	3.9	1.8	2.4	1.2	2.5
18	3.6	3.9	3.6	28	3.9	7.0	4.1	3.9	1.8	2.5	1.0	2.7
19	3.6	3.2	3.4	69	3.6	6.3	4.1	3.9	1.7	2.5	1.0	2.7
20	3.6	2.9	3.2	30	3.6	5.6	4.4	3.9	1.7	2.9	1.0	2.9
21	3.6	2.9	3.2	18	3.6	5.0	4.1	3.6	1.7	2.7	1.2	2.9
22	3.6	3.2	3.2	12	3.4	4.4	3.9	2.9	1.7	2.9	1.0	2.9
23	3.4	3.2	2.9	9.5	3.4	3.9	3.9	2.9	2.0	17	1.0	2.9
24	3.4	3.2	2.9	8.0	3.4	3.6	3.9	2.7	2.0	4.0	1.2	2.9
25	3.4	3.2	2.9	6.5	3.2	3.2	3.9	2.9	2.0	3.9	1.2	2.7
26	3.4	3.4	2.7	5.5	3.2	3.6	3.9	3.2	2.0	3.9	1.2	2.5
27	3.4	3.2	2.7	4.7	3.2	3.6	3.9	3.2	2.2	3.9	1.3	2.5
28	3.2	3.2	2.7	4.2	3.2	3.4	4.1	2.9	2.0	3.6	1.3	2.5
29	3.2	3.2	2.7	3.8	-----	3.4	4.1	2.9	2.0	3.6	1.4	2.5
30	3.2	3.2	2.9	3.7	-----	3.6	3.9	2.9	2.0	3.6	1.4	2.5
31	3.2	-----	2.9	3.9	-----	3.6	-----	2.9	-----	3.6	1.3	-----
TOTAL	102.4	93.2	101.3	303.5	104.6	211.3	123.8	110.5	61.3	98.6	190.7	68.6
MEAN	3.30	3.27	3.27	9.79	3.74	6.82	4.13	3.56	2.04	3.18	6.15	2.29
MAX	3.5	3.9	4.1	69	4.4	16	8.7	4.1	2.7	17	71	2.9
MIN	2.5	2.9	2.7	2.5	3.2	3.2	3.6	2.7	1.7	2.0	1.0	1.3
AC-FT	203	195	201	602	207	419	246	219	122	196	378	136

CAL YR 1973 TOTAL 3,272.0 MEAN 9.96 MAX 646 MIN 1.8 AC-FT 6,490
WTR YR 1974 TOTAL 1,574.8 MEAN 4.31 MAX 71 MIN 1.0 AC-FT 3,120

PEAK DISCHARGE (BASE, 100 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
1-18	2030	2.54	100	8-2	1515	4.92	906
7-23	1930	3.65	395	8-4	1515	4.24	516
8-1	2030	2.96	196				

11109700 LAKE PIRU NEAR PIRU, CALIF.

LOCATION.--Lat 34°27'52", long 118°44'57", in Temescal Grant, Ventura County, at Santa Felicia Dam on Piru Creek, on left bank 1,000 ft (305 m) upstream from left end of dam, 0.5 mi (0.8 km) downstream from Santa Felicia Canyon, and 4.2 mi (6.8 km) northeast of Piru.

DRAINAGE AREA.--425 mi² (1,101 km²).

PERIOD OF RECORD.--May 1955 to current year.

GAGE.--Nonrecording gage. Datum of gage is at mean sea level (levels by United Water Conservation District). Prior to Jan. 27, 1956, reference point at intake tower at same datum.

EXTREMES.--Current year: Maximum contents, 38,020 acre-ft (46.9 hm³) May 28-31 (elevation, 991.35 ft or 302.163 m); minimum, 12,220 acre-ft (15.1 hm³) Sept. 30 (elevation, 949.20 ft or 289.316 m).

Period of record: Maximum contents observed, 109,400 acre-ft (135 hm³) Feb. 25, 1969 (elevation, 1,061.45 ft or 323.530 m); lake dry Oct. 25 to Nov. 20, 1961.

REMARKS.--Lake is formed by earthfill dam. Storage began May 20, 1955. Capacity table is based on surveys made in 1949 and 1956. Dead storage below two 24-inch (61.0-cm) sluice gates at elevation 880.0 ft (268.224 m), 74 acre-ft (91,200 m³), included in contents. Capacity below spillway level at elevation 1,055.0 ft (321.564 m), 101,225 acre-ft (125 hm³). Flow regulated since December 1971 by Pyramid Dam, capacity, 173,500 acre-ft (214 hm³). Imported water from the California Water Project stored behind and released from Pyramid Dam. Water is released from outlet to Piru Creek for ground-water recharge, domestic use, and irrigation on the Oxnard plain.

COOPERATION.--Elevations furnished by United Water Conservation District.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet) ^a	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	968.35	21,920	--
Oct. 31.....	953.25	13,940	-7,980
Nov. 30.....	954.05	14,300	+360
Dec. 31.....	954.90	14,690	+390
CAL YR 1973.....	--	--	-2,580
Jan. 31.....	974.70	25,990	+11,300
Feb. 28.....	976.25	27,030	+1,040
Mar. 31.....	986.25	34,150	+7,120
Apr. 30.....	989.65	36,710	+2,560
May 31.....	991.35	38,020	+1,310
June 30.....	988.20	35,610	-2,410
July 31.....	963.80	19,240	-16,370
Aug. 31.....	954.90	14,690	-4,550
Sept. 30.....	949.20	12,220	-2,470
WTR YR 1974.....	--	--	-9,700

^a Elevation at 0800.

SANTA CLARA RIVER BASIN

11109800 PIRU CREEK BELOW SANTA FELICIA DAM, CALIF.

LOCATION.--Lat 34°27'37", long 118°45'04", in Temescal Grant, Ventura County, on right bank 750 ft (229 m) downstream from Santa Felicia Dam, 1 mi (2 km) upstream from Lime Canyon, and 4 mi (6 km) northeast of Piru.

DRAINAGE AREA.--425 mi² (1,100 km²).

PERIOD OF RECORD.--October 1955 to September 1968, October 1973 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 858.8 ft (261.76 m) above mean sea level (levels by United Water Conservation District).

EXTREMES.--Current year: Maximum daily discharge, 352 ft³/s (9.97 m³/s) July 22, 23; minimum daily, 2.8 ft³/s (0.079 m³/s) Oct. 18.
Period of record: Maximum discharge, 544 ft³/s (15.4 m³/s) Aug. 18, 1958 (gage height, 3.66 ft or 1.116 m); no flow at times in most years.

REMARKS.--Records good except those for the period of no gage-height record, which are fair. Flow regulated since December 1971 by Pyramid Dam, capacity, 173,500 acre-ft (214 hm³). Imported water from the California Water Project stored behind and released from Pyramid Dam. Flow also regulated by Lake Piru (see sta 11109700). No diversion above station. Records of chemical analyses for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	192	4.6	6.5	6.5	6.5	7.1	7.4	6.2	43	43	236	40
2	192	4.6	6.5	6.5	6.5	7.1	7.4	6.2	43	43	236	40
3	192	4.6	6.5	6.5	6.5	7.1	7.4	6.2	43	44	236	40
4	192	4.6	6.5	6.5	6.8	7.1	7.4	6.5	43	44	233	40
5	195	4.6	6.5	6.5	6.8	7.1	7.4	6.5	43	44	90	40
6	195	4.6	6.5	6.5	6.5	7.1	7.4	6.5	43	44	22	40
7	195	4.6	6.5	6.8	6.8	7.1	7.4	6.5	43	44	42	40
8	195	4.6	6.5	6.5	6.8	7.1	7.1	6.5	43	183	42	39
9	192	4.6	6.5	6.5	6.8	7.1	7.1	6.5	43	276	42	39
10	192	4.6	6.5	6.5	6.8	7.1	7.1	6.5	42	284	42	39
11	192	4.6	6.5	6.5	6.8	7.1	7.1	6.5	42	304	42	38
12	188	4.6	6.5	6.5	6.8	4.8	7.1	6.5	42	340	42	38
13	185	4.6	6.5	6.5	6.8	6.5	6.8	6.5	42	340	42	38
14	185	4.6	6.5	6.5	6.8	7.1	6.8	31	42	344	42	38
15	192	4.6	6.5	6.5	6.8	7.1	6.8	43	42	344	41	38
16	192	4.6	6.5	6.5	6.8	7.1	6.8	43	42	344	41	38
17	72	4.6	6.5	6.5	6.8	7.1	6.5	43	42	348	41	38
18	2.4	4.6	6.5	6.5	6.8	7.1	6.5	43	42	348	41	38
19	3.1	4.6	6.5	6.5	7.1	6.4	6.5	43	42	348	41	38
20	3.5	6.0	6.5	6.5	7.1	7.4	6.5	43	42	348	41	38
21	3.5	7.5	6.5	6.5	7.4	7.4	6.5	43	42	348	41	38
22	3.3	7.5	6.5	6.5	7.4	7.4	5.9	43	42	352	40	38
23	3.3	7.5	6.5	6.5	7.4	7.7	5.9	43	42	352	40	38
24	3.1	7.5	6.5	6.5	7.4	7.7	5.9	43	42	348	40	38
25	3.1	7.5	6.5	6.5	7.1	7.7	5.9	43	42	348	40	38
26	3.1	7.5	6.5	6.5	7.1	7.7	5.9	43	42	348	40	38
27	3.1	7.5	6.5	6.5	7.1	7.7	5.9	43	42	348	40	38
28	3.1	7.0	6.5	6.5	7.1	7.7	5.9	43	43	348	40	38
29	3.9	6.5	6.5	6.5	-----	7.7	5.9	43	43	316	40	38
30	4.6	6.5	6.5	6.5	-----	7.4	6.2	43	43	280	40	38
31	4.6	-----	6.5	6.5	-----	7.4	-----	43	-----	260	40	-----
TOTAL	3,186.1	165.9	201.5	201.8	193.4	222.2	200.4	845.6	1,272	8,105	2,076	1,157
MEAN	103	5.3	6.50	6.51	6.91	7.17	6.68	27.3	42.4	261	67.0	38.6
MAX	195	7.5	6.5	6.9	7.4	7.7	7.4	43	43	352	236	40
MIN	2.8	4.6	6.5	6.5	6.5	4.8	5.9	6.2	42	43	22	38
AC-FT	6,320	329	400	400	384	441	397	1,680	2,520	16,080	4,120	2,290

WTR YR 1974 TOTAL 17,826.9 MEAN 48.8 MAX 352 MIN 2.8 AC-FT 35,360

NOTE. -No gage-height record Nov. 3 to Dec. 4.

LOCATION.--Lat 34°25'30", long 118°45'40", in southern part of Temescal Grant, Ventura County, on right bank 1.8 mi (2.9 km) northeast of Piru, and 2 mi (3 km) upstream from mouth.

PERIOD OF RECORD.--October 1911 to September 1913, October 1927 to April 1955, May 1955 to September 1974 (discontinued). Published as "at Piru" 1927-34 and as "below Santa Felicia Dam" May 1955 to September 1968. Records not equivalent prior to May 20, 1955, due to regulation by Lake Piru.

AVERAGE DISCHARGE.--29 years (1927-56), 54.8 ft³/s (1.552 m³/s), 39,700 acre-ft/yr (49.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 358 ft³/s (10.1 m³/s) July 19 (gage height, 4.50 ft or 1.372 m); minimum daily, 2.9 ft³/s (0.082 m³/s) Nov. 8.
1912-13, 1927-56: Maximum discharge, 35,600 ft³/s (1,010 m³/s) Mar. 2, 1938 (gage height, 14.0 ft or 4.267 m, site and datum then in use), from rating curve extended above 750 ft³/s (21.2 m³/s) on basis of slope-area measurement of maximum flow; no flow at times in some years.
1957 to current year: Maximum discharge, 28,800 ft³/s (816 m³/s) Feb. 25, 1969 (gage height, 15.9 ft or 4.846 m), from rating curve extended above 6,400 ft³/s (181 m³/s) on basis of computation of peak flow over dam; no flow at times in some years.

REMARKS.--Records good. Flow regulated beginning in May 1955 by Lake Piru 2.8 mi (4.5 km) upstream (see sta 11109700) and since December 1971 by Pyramid Lake, capacity, 173,500 acre-ft (214 hm³). Imported water from California Water Project stored and released at Pyramid Dam. No diversion above station. Records of chemical analyses for the current year are published in Part 2 of this report.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	193	3.6	7.7	7.4	7.8	6.1	8.8	6.9	42	47	237	40
2	194	3.6	6.8	6.6	7.7	10	8.8	7.1	42	47	237	40
3	194	3.5	6.8	6.2	7.7	8.5	8.7	7.0	42	47	233	40
4	194	3.5	6.8	14	7.7	7.0	8.5	6.8	42	47	229	40
5	196	3.4	7.0	9.4	7.7	7.0	8.5	6.9	42	47	100	40
6	195	3.3	7.2	13	7.4	7.0	8.5	6.8	42	48	18	40
7	196	3.0	7.2	46	7.4	7.7	8.4	6.9	42	48	43	40
8	197	2.9	7.2	14	7.4	16	8.4	7.1	42	175	43	40
9	196	3.0	7.0	8.7	7.4	8.5	8.4	7.0	42	278	43	39
10	195	3.0	6.6	7.9	7.4	8.3	7.9	6.8	42	283	42	39
11	195	3.0	6.6	7.7	7.4	8.3	6.9	6.9	42	292	42	39
12	193	3.2	6.6	7.4	7.4	6.7	7.1	6.8	42	334	41	40
13	192	3.4	6.6	7.4	7.2	7.5	7.2	7.0	43	340	41	39
14	192	3.6	6.6	7.4	7.2	8.2	7.1	30	43	334	41	39
15	193	3.7	6.4	7.2	6.7	8.2	7.1	45	44	340	42	39
16	195	3.9	6.4	7.7	6.1	8.3	7.2	45	44	340	42	39
17	90	7.7	6.4	7.9	6.3	8.4	7.0	45	44	346	41	39
18	5.7	9.2	6.4	7.6	6.3	8.5	6.6	45	44	346	41	38
19	5.4	7.0	6.4	7.9	6.2	7.6	7.1	45	45	352	41	38
20	5.3	8.0	6.5	8.2	6.2	8.5	7.2	45	45	352	41	38
21	5.2	7.9	6.6	7.8	6.0	8.5	7.2	45	45	346	41	38
22	5.2	10	6.9	7.7	6.1	8.5	7.2	45	45	346	41	38
23	5.3	8.4	6.8	7.8	5.9	8.8	7.3	45	45	346	41	38
24	4.9	7.9	6.1	7.6	5.8	8.8	7.2	45	46	346	41	39
25	4.4	7.7	5.8	7.7	5.9	8.7	7.2	44	46	346	40	39
26	4.1	7.7	5.9	7.8	5.9	8.9	7.2	41	46	346	41	39
27	3.4	7.7	6.6	7.7	5.9	9.1	7.1	39	46	346	40	39
28	3.2	6.8	7.2	7.6	6.1	9.0	7.1	41	46	346	41	39
29	3.1	6.4	7.0	7.8	-----	8.9	7.0	41	47	316	40	39
30	3.4	6.2	7.0	7.8	-----	9.0	7.0	41	47	278	41	39
31	3.6	-----	7.0	7.9	-----	8.8	-----	42	-----	261	40	-----
TOTAL	3,262.2	162.2	208.1	294.8	190.2	263.3	226.9	859.0	1,315	8,066	2,085	1,173
MEAN	105	5.41	6.71	9.51	6.79	8.49	7.56	27.7	43.8	260	67.3	39.1
MAX	197	10	7.7	46	7.8	16	8.8	45	47	352	237	40
MIN	3.1	2.9	5.8	6.2	5.8	6.1	6.6	6.8	42	47	18	38
AC-FT	6,470	322	413	585	377	522	450	1,700	2,610	16,000	4,140	2,330
CAL YR 1973	TOTAL	27,788.9	MEAN	76.1	MAX	277	MIN	1.3	AC-FT	55,120		
WTR YR 1974	TOTAL	18,105.7	MEAN	49.6	MAX	352	MIN	2.9	AC-FT	35,910		

SANTA CLARA RIVER BASIN

11110500 HOPPER CREEK NEAR PIRU, CALIF.

LOCATION.--Lat 34°24'03", long 118°49'32", in NE¼NE¼SW¼ sec.25, T.4 N., R.19 W., Ventura County, on downstream end of center pier of bridge on State Highway 126, 1 mi (2 km) upstream from mouth, and 2.1 mi (3.4 km) south-west of Piru.

DRAINAGE AREA.--23.6 mi² (61.1 km²).

PERIOD OF RECORD.--October 1930 to September 1932, October 1933 to September 1936, October 1937 to current year.

GAGE.--Water-stage recorder. Concrete control since October 1967. Altitude of gage is 590 ft (180 m), from topographic map.

AVERAGE DISCHARGE.--42 years, 5.48 ft³/s (0.155 m³/s), 3,970 acre-ft/yr (4.90 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 547 ft³/s (15.5 m³/s) Jan. 7 (gage height, 6.85 ft or 2.088 m); no flow for several months.

Period of record: Maximum discharge, 8,400 ft³/s (238 m³/s) Jan. 25, 1969 (gage height, 12.72 ft or 3.877 m, from floodmarks), from rating curve extended above 850 ft³/s (24.1 m³/s) on basis of slope-area measurement of maximum flow; no flow for several months in most years.

REMARKS.--Records fair. No regulation above station. Some pumping along stream for irrigation.

COOPERATION.--Records furnished by Ventura County Flood Control District and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.15	.35	.37	1.9	1.3	1.3	.19	.09			
2	0	.13	2.9	.37	1.9	42	1.3	.19	.07			
3	0	.24	.45	.54	1.7	35	1.1	.37	.09			
4	0	.24	.11	12	1.7	6.8	1.0	.31	.09			
5	0	.31	.02	7.3	1.7	1.7	.87	.31	.05			
6	0	.31	0	59	1.5	1.0	.87	.37	.02			
7	0	.31	0	372	1.3	1.6	.74	.31	.07			
8	.11	.31	0	76	1.1	63	.74	.37	0			
9	.15	.37	0	19	1.0	24	.74	.45	0			
10	.04	.31	0	10	1.0	15	.74	.37	0			
11	.10	.19	0	6.3	1.0	4.1	.64	.31	0			
12	.09	.19	0	15	1.1	2.1	.54	.37	0			
13	.09	.24	0	15	1.0	1.5	.54	.31	0			
14	.07	.24	0	7.7	1.1	1.1	.45	.31	0			
15	.07	.31	0	5.3	1.1	.87	.45	.37	0			
16	.09	.31	0	8.6	1.1	.87	.45	.31	0			
17	.07	1.3	0	18	1.3	.74	.54	.31	0			
18	.03	.22	0	7.9	1.3	.87	.64	.31	0			
19	.02	1.2	0	6.0	1.3	1.0	.64	.31	0			
20	.05	.31	0	5.4	1.3	1.1	.54	.19	0			
21	.07	.11	.05	5.8	1.1	1.1	.45	.15	0			
22	.11	1.7	.19	1.8	1.0	1.1	.37	.09	0			
23	.37	3.0	.09	2.8	1.0	1.1	.54	.07	0			
24	.37	1.7	.05	1.9	.87	1.0	.54	.05	0			
25	.31	1.0	.09	1.7	.87	.87	.45	.05	0			
26	.19	.74	.11	1.7	.87	1.1	.37	0	0			
27	.11	.54	.19	1.7	.87	1.9	.37	0	0			
28	.11	.45	.24	1.7	1.0	1.7	.31	0	0			
29	.09	.37	.11	1.7	-----	1.5	.24	.05	0			
30	.05	.45	.11	1.7	-----	1.7	.19	.07	0			
31	.05	-----	.09	1.9	-----	1.5	-----	.07	-----			
TOTAL	2.56	39.09	39.80	696.18	33.98	220.22	18.66	6.94	.48	0	0	0
MEAN	.092	1.30	1.28	22.5	1.21	7.10	.62	.22	.016	0	0	0
MAX	.37	.22	.35	392	1.9	63	1.3	.45	.09	0	0	0
MIN	0	.11	0	.37	.87	.74	.19	0	0	0	0	0
AC-FT	5.7	78	79	1,380	67	437	37	14	1.0	0	0	0

CAL YR 1973 TOTAL 2,709.64 MEAN 7.42 MAX 557 MIN 0 AC-FT 5,370
 WTR YR 1974 TOTAL 1,058.21 MEAN 2.90 MAX 342 MIN 0 AC-FT 2,100

PEAK DISCHARGE (BASE, 150 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-1	1100	6.18	220	3-2	1330	6.28	255
1-7	1000	6.85	547	3-8	0300	6.19	204

11111500 SESPE CREEK NEAR WHEELER SPRINGS, CALIF.

LOCATION.--Lat 34°34'40", long 119°15'25", in SE¼NW¼SW¼ sec.30, T.6 N., R.22 W., Ventura County, on right bank at Sespe Gorge, 1.6 mi (2.6 km) upstream from Tule Creek, 5 mi (8 km) upstream from Cold Springs damsite, and 5 mi (8 km) northeast of Wheeler Springs.

DRAINAGE AREA.--49.5 mi² (128.2 km²).

PERIOD OF RECORD.--October 1947 to current year. Daily discharge for period October 1947 to July 1948 estimated on basis of weather records and records for North Fork Matilija Creek.

GAGE.--Water-stage recorder. Datum of gage is 3,500.65 ft (1,066.998 m) above mean sea level (levels by Ventura County Flood Control District).

AVERAGE DISCHARGE.--27 years (1947-74), 10.5 ft³/s (0.297 m³/s), 7,610 acre-ft/yr (9.38 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 172 ft³/s (4.87 m³/s) Jan. 18 (gage height, 3.61 ft or 1.100 m); minimum daily, 0.03 ft³/s (0.001 m³/s) Sept. 3.

Period of record: Maximum discharge, 9,700 ft³/s (275 m³/s) Jan. 25, 1969 (gage height, 13.60 ft or 4.145 m), from rating curve extended above 3,000 ft³/s (85.0 m³/s) on basis of slope-area measurement of maximum flow; no flow many days in some years.

REMARKS.--Records good. No regulation or diversion above station. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.30	1.0	9.0	1.8	19	8.5	15	5.2	2.5	.74	.32	.04
2	.30	1.0	2.6	1.8	19	58	15	5.2	2.3	.74	.32	.04
3	.30	1.0	2.0	1.8	18	37	14	5.2	2.3	.74	.32	.03
4	.37	1.0	1.8	1.5	17	27	13	5.2	2.0	.74	.18	.04
5	.37	1.0	1.6	1.5	17	23	13	4.8	2.0	.74	.12	.08
6	.45	1.0	1.6	3.0	15	22	12	4.8	2.0	.74	.12	.06
7	.54	1.2	1.5	12	14	25	12	4.5	1.8	.74	.12	.07
8	.63	1.2	1.3	13	14	43	11	4.1	1.8	.74	.12	.13
9	.63	1.2	1.3	8.8	13	39	11	4.1	1.8	.74	.12	.12
10	.63	1.2	1.3	7.0	12	49	11	4.1	1.8	.74	.12	.18
11	.63	1.2	1.3	6.6	12	46	11	4.1	1.6	.74	.12	.18
12	.63	1.2	1.3	9.8	11	41	9.6	3.8	1.4	.74	.07	.18
13	.63	1.3	1.3	11	11	38	9.6	3.8	1.2	.61	.12	.12
14	.63	1.3	1.3	11	10	35	9.6	3.8	1.2	.50	.18	.18
15	.63	1.3	1.5	12	9.6	33	9.1	3.8	1.2	.50	.15	.12
16	.63	1.3	1.5	20	9.1	30	8.5	3.8	1.2	.48	.11	.07
17	.63	1.8	1.5	38	9.1	27	8.0	3.8	1.4	.48	.08	.07
18	.63	3.8	1.5	71	9.1	27	8.0	3.8	1.6	.46	.08	.07
19	.63	2.4	1.5	108	9.1	25	8.0	3.8	1.6	.46	.09	.07
20	.63	2.0	1.6	79	9.1	23	8.0	3.4	1.4	.44	.09	.12
21	.72	1.6	1.6	58	8.5	21	7.4	3.1	1.4	.44	.13	.12
22	.72	2.0	1.8	38	8.0	21	6.5	3.1	1.2	.42	.08	.12
23	.82	2.4	1.8	32	8.0	18	6.5	2.8	1.0	.42	.08	.12
24	.93	2.2	1.8	27	8.0	17	6.5	2.5	1.0	.40	.07	.14
25	.93	2.0	2.0	26	8.0	17	6.5	2.5	.88	.40	.06	.17
26	.93	1.8	2.0	25	8.0	16	6.1	2.3	.88	.40	.07	.17
27	.93	1.6	2.0	22	8.0	20	6.1	2.3	.74	.32	.08	.17
28	.93	1.6	2.0	21	8.0	17	5.6	2.3	.74	.32	.09	.17
29	.93	1.6	1.8	21	-----	16	5.2	2.5	.74	.32	.09	.17
30	1.0	1.6	1.8	20	-----	16	5.2	2.5	.74	.32	.08	.17
31	1.0	-----	1.8	19	-----	15	-----	2.5	-----	.32	.05	-----
TOTAL	20.66	46.8	58.7	727.6	321.6	850.5	278.0	113.5	43.42	16.89	3.83	3.49
MEAN	.67	1.56	1.89	23.5	11.5	27.4	9.27	3.66	1.45	.54	.12	.12
MAX	1.0	3.8	9.0	108	19	58	15	5.2	2.5	.74	.32	.18
MIN	.30	1.0	1.3	1.5	8.0	8.5	5.2	2.3	.74	.32	.05	.03
AC-FT	41	93	116	1,440	638	1,690	551	225	86	34	7.6	6.9

CAL YR 1973 TOTAL 6,190.51 MEAN 17.0 MAX 1,030 MIN .14 AC-FT 12,280
WTR YR 1974 TOTAL 2,484.99 MEAN 5.81 MAX 108 MIN .03 AC-FT 4,930

PEAK DISCHARGE (BASE, 50 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
1-18	1700	3.61	172	3-9	2100	2.82	58
3-2	0900	3.05	83				

11113000 SESPE CREEK NEAR FILLMORE, CALIF.

LOCATION.--Lat 34°27'03", long 118°55'30", in NE¼NW¼NE¼ sec.12, T.4 N., R.20 W., Ventura County, on right bank 0.1 mi (0.2 km) downstream from Little Sespe Creek, and 3.5 mi (5.6 km) north of Fillmore.

DRAINAGE AREA.--251 mi² (650 km²).

PERIOD OF RECORD.--September 1911 to September 1913, October 1927 to current year; combined records of creek and canal, October 1927 to current year. Prior to 1935, published as "at Sespe."

GAGE.--Water-stage recorder on creek; water-stage recorder and Parshall flume on canal. Altitude of gage is 580 ft (177 m), from topographic map. See WSP 1315-B for history of changes prior to Jan. 17, 1946.

AVERAGE DISCHARGE (Creek only).--49 years, 105 ft³/s (2.974 m³/s), 76,070 acre-ft/yr (93.8 hm³/yr).
(Combined creek and canal).--47 years, 111 ft³/s (3.144 m³/s), 80,420 acre-ft/yr (99.2 hm³/yr).

EXTREMES (Creek only).--Current year: Maximum discharge, 6,860 ft³/s (194 m³/s) Jan. 7 (gage height, 15.62 ft or 4.761 m); minimum daily, 0.27 ft³/s (0.008 m³/s) Sept. 1.

Period of record: Maximum discharge, 60,000 ft³/s (1,700 m³/s) Jan. 25, 1969 (gage height, 20.80 ft or 6.340 m), from rating curve extended above 22,000 ft³/s (623 m³/s) on basis of slope-area measurement at gage height 19.0 ft (5.79 m); maximum gage height, 24.95 ft (7.605 m) Feb. 25, 1969 (from debris wave); no flow at times in some years.

(Combined flow).--Current year: Maximum discharge, 6,860 ft³/s (194 m³/s) Jan. 7; minimum daily, 4.2 ft³/s (0.12 m³/s) Sept. 3.

Period of record: Maximum discharge, 60,000 ft³/s (1,700 m³/s) Jan. 25, 1969; minimum daily, 1.1 ft³/s (0.031 m³/s) July 31, Aug. 2, 1951.

REMARKS.--Records good. No regulation above station. Fillmore Irrigation Co. has diverted water 1 mi (2 km) upstream since September 1911. For records of combined discharge of Sespe Creek and Fillmore Irrigation Co.'s canal, see following page. Records of chemical analyses and sediment discharge for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	3.4	203	14	105	54	103	31	15	2.8	.46	.27
2	1.2	3.9	125	17	101	327	99	31	16	2.6	.58	2.1
3	1.2	3.7	47	14	97	350	99	31	16	2.6	.64	4.2
4	1.3	3.5	34	81	92	211	91	30	15	2.6	.71	4.6
5	1.1	3.4	24	85	91	159	84	31	16	2.5	.71	5.0
6	1.1	3.2	25	454	87	134	81	35	15	2.4	.71	3.4
7	1.2	3.5	23	4,410	83	175	78	31	14	2.4	.71	1.4
8	1.5	2.8	22	1,400	79	590	73	28	14	2.3	.78	.85
9	2.4	1.9	20	430	78	356	72	27	14	2.1	.78	1.2
10	2.9	1.9	20	266	75	318	70	27	13	2.0	.85	1.3
11	2.9	1.9	19	190	73	284	67	26	13	1.9	.71	.78
12	3.0	1.9	19	242	71	257	65	25	13	1.8	.78	.71
13	3.2	3.0	19	355	72	230	62	25	12	1.6	.71	.71
14	5.0	3.5	19	290	70	212	59	25	12	1.5	.78	.71
15	3.7	3.5	18	260	68	199	58	24	10	1.4	.85	.78
16	2.4	3.4	18	306	67	186	56	23	9.0	1.3	2.3	.85
17	2.5	26	14	662	65	175	56	24	8.0	1.2	1.0	.85
18	2.5	71	17	614	65	168	54	26	7.5	1.1	.71	.86
19	2.2	46	17	694	64	162	50	26	7.0	1.0	.85	.78
20	3.7	30	16	530	63	154	49	25	6.5	.92	1.0	.78
21	2.9	25	16	440	62	146	47	24	6.0	.86	.85	.71
22	2.4	24	19	323	61	138	45	23	5.0	.80	.78	.77
23	6.6	30	19	269	59	130	44	22	4.7	.76	.78	.71
24	5.1	25	18	211	59	124	41	23	4.5	.71	.71	.69
25	3.9	23	18	185	57	118	40	20	4.0	.67	.64	.86
26	3.7	21	18	170	56	118	40	17	3.5	.64	.58	.87
27	3.6	20	18	152	55	127	37	16	2.5	.60	.52	.84
28	3.4	19	19	132	53	121	34	15	2.6	.58	.52	.95
29	3.1	19	19	122	-----	112	33	15	2.8	.54	.46	1.0
30	2.5	19	19	119	-----	113	32	15	2.8	.52	.40	.96
31	3.0	-----	17	108	-----	109	-----	15	-----	.46	.35	-----
TOTAL	87.6	450.8	925	13,549	2,028	6,057	1,819	756	284.4	45.16	23.21	40.49
MEAN	2.83	15.0	29.8	437	72.4	195	60.6	24.4	9.48	1.46	.75	1.35
MAX	6.6	71	203	4,410	105	590	103	35	16	2.8	2.3	5.0
MIN	1.1	1.9	16	17	53	54	32	15	2.5	.46	.35	.27
AC-FT	174	894	1,830	26,870	4,020	12,010	3,610	1,500	564	90	46	80

CAL YR 1973 TOTAL 79,901.70 MEAN 219 MAX 18,500 MIN 1.1 AC-FT 158,500
WTR YR 1974 TOTAL 26,065.66 MEAN 71.4 MAX 4,410 MIN .27 AC-FT 51,700

PEAK DISCHARGE (BASE, 1,300 FT³/S).--Jan. 7 (1130) 6,860 ft³/s (15.62 ft).

11113000 SESPE CREEK NEAR FILLMORE, CALIF.--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF SESPE CREEK AND FILLMORE
IRRIGATION CO.'S CANAL NEAR FILLMORE, CALIF., WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	8.8	204	18	105	57	103	40	24	10	5.6	4.6
2	7.9	9.0	125	17	101	327	99	40	24	10	5.7	5.2
3	7.9	9.1	47	18	97	350	99	40	24	10	5.8	4.2
4	7.8	9.1	34	81	92	211	92	40	23	9.9	5.9	4.6
5	7.7	9.2	28	86	91	159	85	40	23	9.8	5.9	5.0
6	7.9	9.3	25	458	88	134	82	42	22	9.8	5.9	6.9
7	8.2	9.6	23	4,410	84	175	79	40	21	9.6	5.9	5.2
8	8.7	10	22	1,400	80	590	74	38	21	9.4	6.1	5.2
9	9.2	9.8	20	430	79	356	73	36	21	9.1	6.2	5.3
10	9.3	9.8	20	266	76	318	71	36	19	9.6	6.3	5.4
11	9.2	9.6	19	190	75	284	68	35	20	10	6.1	5.2
12	9.4	9.6	19	242	72	257	66	34	21	9.7	6.2	5.2
13	9.0	9.6	19	355	73	230	62	33	19	9.3	6.0	5.3
14	9.3	9.9	19	290	71	212	59	34	19	8.6	6.1	5.3
15	9.2	10	18	260	69	199	58	33	17	8.4	5.9	5.3
16	8.6	10	18	306	68	186	56	31	16	8.5	7.0	5.4
17	8.4	29	18	662	66	175	56	30	14	8.2	5.9	5.3
18	8.4	71	17	614	66	168	55	30	15	7.9	5.5	5.3
19	8.3	46	17	694	65	162	53	30	15	7.6	5.7	5.2
20	8.7	30	17	530	64	155	52	31	14	7.2	5.9	5.2
21	8.6	25	18	440	63	147	50	29	14	7.1	5.9	4.9
22	8.7	28	19	323	62	139	48	28	13	6.9	5.8	4.7
23	12	30	18	260	60	131	47	28	12	6.8	5.7	4.6
24	11	25	18	211	60	124	47	30	11	6.5	5.5	4.7
25	9.7	23	18	185	59	118	46	27	11	6.4	5.2	5.0
26	9.6	21	18	170	58	118	46	25	12	6.2	5.1	5.2
27	9.4	20	18	152	57	127	45	24	11	6.0	5.0	5.3
28	9.1	19	19	132	55	122	43	23	10	6.1	5.0	5.5
29	8.9	19	19	122	-----	113	42	23	10	5.9	5.1	5.3
30	8.5	19	18	119	-----	113	41	23	10	5.8	5.0	5.2
31	8.4	-----	17	108	-----	109	-----	24	-----	5.7	4.8	-----
TOTAL	274.8	557.4	929	13,549	2,056	6,066	1,897	997	506	252.0	177.7	154.7
MEAN	8.86	18.6	30.0	437	73.4	196	63.2	32.2	16.9	8.13	5.73	5.16
MAX	12	71	204	4,410	105	590	103	42	24	10	7.0	6.9
MIN	7.7	8.8	17	17	55	57	41	23	10	5.7	4.8	4.2
AC-FT	545	1,110	1,840	26,870	4,080	12,030	3,760	1,980	1,000	500	352	307
C&L YR 1973	TOTAL 81,190.1		MEAN 222	MAX 18,500	MIN 7.7	AC-FT 161,000						
WTR YR 1974	TOTAL 27,416.6		MEAN 75.1	MAX 4,410	MIN 4.2	AC-FT 54,380						

PEAK DISCHARGE (BASE, 1,300 FT³/S).--Jan. 7 (1130) 6,860 ft³/s.

11113500 SANTA PAULA CREEK NEAR SANTA PAULA, CALIF.

LOCATION.--Lat 34°23'44", long 119°04'32", in NW¼SW¼SW¼ sec.27, T.4 N., R.21 W., Ventura County, on right bank 15 ft (5 m) upstream from Santa Paula Water Works diversion dam, 200 ft (61 m) upstream from Mud Creek, and 3 mi (5 km) north of Santa Paula.

DRAINAGE AREA.--40.0 mi² (103.6 km²).

PERIOD OF RECORD.--October 1927 to current year. March 1912 to September 1913, at site 2.5 mi (4.0 km) upstream; records not equivalent.

GAGE.--Water-stage recorder and concrete diversion dam control. Datum of gage is 638.59 ft (194.642 m) above mean sea level (Corps of Engineers bench mark). Oct. 1, 1927, to Feb. 19, 1931, at site 500 ft (152 m) downstream at different datum. Feb. 20, 1931, to Dec. 5, 1963, and July 30, 1965, to May 5, 1969, at datum 3.00 ft (0.914 m) higher. Dec. 6, 1963, to July 29, 1965, at site 50 ft (15 m) upstream at datum 3.00 ft (0.914 m) higher.

AVERAGE DISCHARGE.--47 years, 21.7 ft³/s (0.614 m³/s), 15,720 acre-ft/yr (19.4 hm³/yr). 46 years, 21.8 ft³/s (0.617 m³/s), 15,790 acre-ft/yr (19.5 hm³/yr); figure published in Water Resources Data for California, 1973, in error.

EXTREMES.--Current year: Maximum discharge, 614 ft³/s (17.4 m³/s) Jan. 6 (gage height, 8.09 ft or 2.466 m); minimum daily, 1.7 ft³/s (0.048 m³/s) Sept. 17.
Period of record: Maximum discharge, 21,000 ft³/s (595 m³/s) Feb. 25, 1969 (gage height, 18.18 ft or 5.541 m, from floodmark, present datum), from rating curve extended above 2,300 ft³/s (65.1 m³/s) on basis of critical-depth measurement at gage height 15.2 ft (4.633 m); no flow at times in 1949, 1951-52, 1965.

REMARKS.--Records good below 270 ft³/s (7.65 m³/s) and poor above. No regulation above station. Diversion above station for irrigation of 60 acres (243,000 m²) by Santa Paula Water Works began prior to October 1927; 381 acre-ft (470,000 m³) was diverted during current year. Records of chemical analyses for the current year are published in Part 2 of this report.

COOPERATION.--Records of diversion furnished by Santa Paula Water Works.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	3.4	45	6.4	26	16	23	12	8.3	4.5	4.3	2.7
2	5.1	3.8	21	6.4	26	100	23	12	8.3	4.5	3.9	2.6
3	5.1	3.6	15	6.4	25	76	23	11	8.6	4.1	4.1	3.0
4	4.4	3.6	13	20	25	49	22	11	8.9	4.1	4.1	2.7
5	4.6	3.6	12	16	24	39	20	11	8.0	4.1	3.7	2.3
6	4.8	3.6	11	115	24	35	19	11	6.6	3.9	3.2	2.4
7	4.8	3.6	9.5	249	23	45	19	11	6.6	3.9	3.0	2.6
8	5.1	3.6	9.5	237	23	108	18	11	6.6	4.1	3.4	2.7
9	5.0	3.6	9.5	95	22	63	18	10	6.1	4.5	3.5	2.7
10	4.8	3.6	9.0	51	21	60	17	9.8	6.1	4.9	3.5	2.7
11	4.8	3.6	9.0	37	20	55	17	9.7	5.8	4.9	3.4	2.6
12	4.5	3.4	8.7	37	19	52	16	9.5	5.8	4.7	3.4	2.3
13	4.4	3.6	7.7	56	19	52	16	9.3	5.8	4.7	3.4	1.9
14	4.3	3.9	7.4	53	18	50	15	9.2	5.6	4.9	3.7	2.3
15	4.1	4.4	7.4	51	18	47	15	9.0	5.6	4.9	3.7	2.9
16	4.2	4.8	7.4	65	18	45	15	8.8	6.3	4.9	3.4	2.3
17	4.1	10	6.8	98	17	41	14	8.6	6.6	4.7	3.4	1.7
18	4.0	22	6.8	88	17	41	14	8.5	6.6	4.7	3.4	1.8
19	3.9	18	6.8	90	17	37	14	8.3	6.3	4.7	3.4	1.9
20	4.1	12	6.8	85	16	37	13	8.1	6.1	4.9	3.2	1.9
21	4.1	11	6.8	76	16	36	13	8.0	6.1	6.3	3.0	1.9
22	4.4	17	7.4	60	16	36	13	7.8	5.8	5.4	3.0	1.9
23	5.4	18	7.4	51	15	34	13	7.6	5.6	4.7	3.0	1.9
24	5.0	14	7.1	44	15	31	13	7.4	5.8	3.4	3.0	2.0
25	4.7	13	6.8	40	15	29	13	7.3	6.1	3.4	3.4	1.9
26	4.5	12	6.4	37	15	29	13	7.1	5.8	3.9	3.0	2.2
27	4.0	11	6.8	35	15	32	12	7.4	5.8	3.9	2.9	2.3
28	4.0	10	6.8	33	15	27	12	6.6	5.6	3.7	3.0	2.4
29	3.7	8.0	6.4	29	-----	25	12	7.1	5.4	3.7	3.0	2.4
30	3.6	7.4	6.4	29	-----	25	12	7.8	4.3	3.9	2.7	2.3
31	3.5	-----	6.4	28	-----	25	-----	8.6	-----	4.5	2.7	-----
TOTAL	134.5	243.5	304.0	1,964.2	540	1,377	477	281.5	190.9	137.4	103.8	69.2
MEAN	4.47	8.12	9.81	63.4	19.3	44.4	15.9	9.08	6.36	4.43	3.35	2.31
MAX	5.4	22	45	289	26	108	23	12	8.9	6.3	4.3	3.0
MIN	3.5	3.4	6.4	6.4	15	16	12	6.6	4.3	3.4	2.7	1.7
AC-FT	275	483	603	3,900	1,070	2,730	946	558	379	273	206	137

CAL YR 1973 TOTAL 5,827.0 MEAN 16.0 MAX 289 MIN 1.7 AC-FT 11,560
WTR YR 1974 TOTAL 5,827.0 MEAN 16.0 MAX 289 MIN 1.7 AC-FT 11,560

PEAK DISCHARGE (BASE, 200 FT³/S).--Jan. 6 (1830) 614 ft³/s (8.09 ft).

LOCATION.--Lat 34°17'06", long 119°07'14", in Santa Paula Y Saticoy Grant, Ventura County, on diversion ditch 0.7 mi (1.1 km) downstream from Santa Clara River, and 1.5 mi (2.4 km) east of Saticoy.

GAGE.--Water-stage recorder. Altitude of gage is 160 ft (49 m), from topographic map.

EXTREMES.--Period of record: Maximum daily discharge, 407 ft³/s (11.5 m³/s) Jan. 5, 6, 1966; no flow at times in most years.

REMARKS.--Water is diverted from left bank of Santa Clara River to percolation basin near Los Angeles Avenue (State Highway 118) and for irrigation in Pleasant Valley. See sta 11110000, Piru Creek near Piru, for report of controlled releases from Lake Piru. Imported water from the California Water Project released to the basin at Castaic Dam and Pyramid Dam since 1972. Records of chemical analyses for the current year are published in Part 2 of this report.

COOPERATION.--Records furnished by United Water Conservation District.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	196	28	32	79	216	139	205	90	37	22	48	17
2	174	29	169	78	215	191	203	90	37	20	41	17
3	140	29	200	76	208	203	193	88	39	20	44	18
4	138	29	107	75	210	191	181	81	38	19	50	18
5	135	29	97	113	206	257	177	86	37	20	54	18
6	134	30	89	146	194	270	175	88	37	20	38	16
7	142	30	86	0	192	271	169	88	35	20	30	16
8	189	30	84	0	178	0	168	84	32	20	26	15
9	230	30	80	0	184	0	160	71	32	20	24	16
10	218	29	79	0	177	0	160	65	33	18	22	16
11	178	29	78	0	176	94	158	68	32	19	23	16
12	158	30	79	0	175	290	171	69	30	22	25	16
13	142	34	80	0	173	320	166	62	29	29	24	16
14	161	36	81	0	172	339	161	61	29	35	24	16
15	206	34	79	0	171	319	159	47	27	41	23	16
16	209	34	78	0	169	305	159	49	27	35	22	17
17	161	35	78	0	167	290	131	46	28	32	22	17
18	70	52	79	0	160	278	132	47	26	33	22	16
19	43	85	78	0	157	275	122	46	25	32	22	16
20	38	90	80	0	156	265	120	48	25	27	23	16
21	38	71	82	0	152	255	118	43	24	30	22	17
22	38	60	89	0	150	246	115	41	24	35	21	17
23	40	84	84	0	148	239	112	40	24	38	21	18
24	40	79	84	0	146	229	107	39	24	39	21	18
25	38	69	83	0	141	222	104	39	22	41	21	17
26	37	66	82	188	136	219	101	39	22	49	21	17
27	36	66	83	280	131	244	101	38	21	52	20	17
28	34	64	86	260	126	225	100	37	20	60	19	17
29	31	62	81	243	-----	216	96	35	20	68	17	17
30	29	65	80	239	-----	220	90	35	21	63	17	17
31	28	-----	79	221	-----	216	-----	37	-----	55	17	-----
TOTAL	3,451	1,438	2,726	1,998	4,786	6,828	4,314	1,797	857	1,034	824	501
MEAN	111	47.9	87.9	64.5	171	220	144	58.0	28.6	33.4	26.6	16.7
MAX	230	90	200	280	216	339	205	90	39	68	54	18
MIN	28	28	32	0	126	0	90	35	20	18	17	15
AC-FT	6,850	2,850	5,410	3,960	9,490	13,540	8,560	3,560	1,700	2,050	1,630	994
CAL YR 1973	TOTAL 39,137.00		MEAN 107		MAX 362		MIN 0		AC-FT 77,630			
WTR YR 1974	TOTAL 30,554.00		MEAN 83.7		MAX 339		MIN 0		AC-FT 60,600			

11114000 SANTA CLARA RIVER AT MONTALVO, CALIF.

LOCATION.--Lat 34°14'31", long 119°11'21", in San Miguel Grant, Ventura County, on downstream end of center pier southbound bridge on U.S. Highway 101, 0.9 mi (1.4 km) southeast of Montalvo.

DRAINAGE AREA.--1,612 mi² (4,175 km²).

PERIOD OF RECORD.--October 1927 to September 1932, October 1949 to current year. Monthly discharge only for 1950-67, published in WRD 1968 report. October 1949 to September 1969, published as "at Saticoy."

GAGE.--Water-stage recorder. Datum of gage is 51.88 ft (15.813 m) above mean sea level (levels by Ventura County Flood Control District). Oct. 1, 1927, to Sept. 30, 1932, and Oct. 1, 1949, to Sept. 30, 1967, at same site at different datums. Oct. 1, 1967, to Feb. 2, 1970, at site 3.9 mi (6.3 km) upstream at different datum.

AVERAGE DISCHARGE.--30 years, 116 ft³/s (3.285 m³/s), 84,040 acre-ft/yr (104 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 14,700 ft³/s (416 m³/s) Jan. 7 (gage height, 6.45 ft or 1.966 m); no flow many days.

Period of record: Maximum discharge, 165,000 ft³/s (4,670 m³/s) Jan. 25, 1969 (gage height, 17.41 ft or 5.307 m, present datum); no flow for long periods in most years.

Flood of Mar. 2, 1938, 120,000 ft³/s (3,400 m³/s), estimated by Ventura County Flood Control District.

REMARKS.--Records poor. Flow partly regulated since May 1955 by Lake Piru (see sta 11109700), since December 1971 by Pyramid Dam, capacity, 173,500 acre-ft (214 hm³), and since January 1972 by Castaic Reservoir, capacity, 324,000 acre-ft (399 hm³). Natural flow affected by ground-water withdrawals, diversions, municipal use, and ground-water replenishment. Imported water from the California Water Project released to the basin at Castaic Dam and Pyramid Dam. Diversion to spreading grounds and for irrigation in Pleasant Valley, at site 6.0 mi (9.7 km) upstream (see sta 11113900). AVERAGE DISCHARGE represents flow to the ocean regardless of upstream development. Records of chemical analyses and sediment discharge for the current year are published in Part 2 of this report.

COOPERATION.--Sixteen discharge measurements furnished by Ventura County Flood Control District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	100	0	1.2	.08	0					
2		0	60	0	1.1	.800	2.0					
3		0	20	0	1.1	.590	1.0					
4		0	10	170	1.0	.610	.50					
5		0	6.0	300	1.0	.75	.10					
6		0	2.0	201	.95	2.5	.05					
7		0	1.0	8,700	.60	.90	.02					
8		0	.50	4,890	.30	1,500	.01					
9		0	0	1,200	.15	.700	.01					
10		0	0	700	.14	.530	.01					
11		0	0	350	.13	.470	0					
12		0	0	400	.12	.50	0					
13		0	0	650	.11	.10	0					
14		0	0	500	.10	2.0	0					
15		0	0	450	.10	1.0	0					
16		0	0	600	.09	.80	0					
17		2.0	0	1,300	.09	.60	0					
18		40	0	900	.09	.55	0					
19		15	0	1,250	.09	.50	0					
20		5.0	0	1,000	.09	.45	0					
21		1.6	0	800	.09	.40	0					
22		.50	2.0	550	.09	.35	0					
23		15	.50	450	.09	.30	0					
24		5.0	.20	350	.09	.25	0					
25		.50	0	150	.09	.23	0					
26		.05	0	40	.09	.20	0					
27		0	0	10	.08	1.0	0					
28		0	0	1.8	.08	.16	0					
29		0	0	1.4	-----	.12	0					
30		0	0	1.3	-----	.10	0					
31		-----	0	1.2	-----	.05	-----		-----			-----
TOTAL	0	94.65	202.20	25,916.7	9.25	5,347.54	3.70	0	0	0	0	0
MEAN	0	2.82	6.52	836	.33	173	.12	0	0	0	0	0
MAX	0	40	100	8,700	1.2	1,500	2.0	0	0	0	0	0
MIN	0	0	0	0	.08	.05	0	0	0	0	0	0
AC-FT	0	168	401	51,410	18	10,610	7.3	0	0	0	0	0

CAL YR 1973 TOTAL 100,767.17 MEAN 276 MAX 25,800 MIN 0 AC-FT 199,900
WTR YR 1974 TOTAL 31,564.04 MEAN 86.5 MAX 8,700 MIN 0 AC-FT 62,610

11115000 MATILIJA RESERVOIR AT MATILIJA HOT SPRINGS, CALIF.

LOCATION.--Lat 34°29'08", long 119°18'25", in NE¼NW¼SE¼ sec.29, T.5 N., R.23 W., Ventura County, on left end of dam 0.2 mi (0.3 km) east of Matilija Hot Springs, and 1.8 mi (2.9 km) southwest of Wheeler Springs.

DRAINAGE AREA.--54.4 mi² (141 km²).

PERIOD OF RECORD.--March 1948 to September 1965, October 1970 to current year. Prior to October 1953, published as "at Matilija."

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (Ventura County Department of Public Works bench mark). Prior to Nov. 12, 1970, at site near right end of dam at same datum.

EXTREMES.--Current year: Maximum contents, 2,393 acre-ft (2.95 hm³) Jan. 8 (elevation, 1,093.89 ft or 333.418 m); minimum, 533 acre-ft (657,000 m³) Nov. 16 (elevation, 1,060.00 ft or 323.088 m).
Period of record: Maximum contents, 7,399 acre-ft (9.12 hm³) Apr. 3, 1958 (elevation, 1,128.10 ft or 343.845 m); minimum, 5.90 acre-ft (7,270 m³) Oct. 31, 1970 (elevation, 1,038.31 ft or 316.477 m).
Maximum contents from September 1965 to September 1970, 3,128 acre-ft (3.86 hm³) Jan. 25, 1969 (elevation, 1,103.6 ft or 336.377 m).

REMARKS.--Reservoir is formed by concrete-arch dam. Dam was completed in 1948. Storage began Mar. 14, 1948. Capacity table is dated October 1970 (furnished by Ventura County Flood Control District). Lowest sluice gate silted, elevation, 1,000 ft (304.8 m). Usable capacity, 2,380 acre-ft (2.93 hm³) between elevations 1,045 ft (318.5 m), lowest usable outlet and 1,095 ft (333.8 m), crest of spillway. Dead storage below lowest usable outlet, 93 acre-ft (115,000 m³). Capacity below spillway, 2,473 acre-ft (3.05 hm³). Water is released from reservoir to natural stream for recharge of ground-water basin in Ventura River Valley and at times releases up to 500 ft³/s (14.2 m³/s), diverted since May 1959 at Robles diversion dam to Lake Casitas on Coyote Creek.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet) ^a	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	1,079.90	1,473	--
Oct. 31.....	1,079.90	1,473	0
Nov. 30.....	1,061.60	591	-882
Dec. 31.....	1,064.65	710	+119
CAL YR 1973.....	--	--	+172
Jan. 31.....	1,063.00	643	-67
Feb. 28.....	1,077.55	1,339	+696
Mar. 31.....	1,073.22	1,106	-233
Apr. 30.....	1,073.05	1,098	-8
May 31.....	1,074.50	1,173	+75
June 30.....	1,072.25	1,057	-116
July 31.....	1,071.72	1,030	-27
Aug. 31.....	1,071.58	1,023	-7
Sept. 30.....	1,071.58	1,023	0
WTR YR 1974.....	--	--	-450

a Elevation at 2400.

11115500 MATILIJA CREEK AT MATILIJA HOT SPRINGS, CALIF.

LOCATION.--Lat 34°28'58", long 119°18'03", in SW¼NW¼SW¼ sec.28, T.5 N., R.23 W., Ventura County, on right bank 0.2 mi (0.3 km) east of Matilija Hot Springs, 0.2 mi (0.3 km) upstream from North Fork, and 0.4 mi (0.6 km) downstream from Matilija Dam.

DRAINAGE AREA.--54.6 mi² (141.4 km²).

PERIOD OF RECORD.--October 1927 to current year. Combined monthly records for creek and diversion, May 1951 to September 1969. Prior to October 1953, published as "at Matilija."

GAGE.--Water-stage recorder. Concrete control since September 1969. Altitude of gage is 900 ft (274 m), from topographic map. Prior to Feb. 11, 1939, at site 0.6 mi (1.0 km) upstream at different datum.

EXTREMES.--Current year: Maximum discharge, 465 ft³/s (13.2 m³/s) Jan. 9, 10 (gage height, 4.26 ft or 1.298 m); minimum daily, 1.1 ft³/s (0.03 m³/s) Sept. 10.

Period of record: Maximum discharge, 20,000 ft³/s (566 m³/s) Jan. 25, 1969 (gage height, 16.5 ft or 5.03 m), from rating curve extended above 4,200 ft³/s (119 m³/s) on basis of computation of maximum flow over dam; minimum daily, 0.10 ft³/s (0.003 m³/s) for several days in some years of regulated flow.

REMARKS.--Records good. Flow regulated by Matilija Reservoir March 1948 to March 1964, capacity, 7,020 acre-ft (8.66 hm³) and partly regulated since March 1964, capacity, 2,470 acre-ft (3.05 hm³), revised. Water diverted at dam by Matilija conduit to Ventura River basin and Ojai Valley for irrigation from May 1951 to January 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	5.7	10	9.3	4.4	6.4	5.7	9.7	10	7.7	3.2	1.2
2	4.9	5.7	9.7	9.3	2.5	6.7	6.1	9.7	10	7.7	3.2	1.2
3	4.6	6.1	9.8	9.3	2.5	6.4	6.1	9.7	10	8.0	3.2	1.3
4	4.6	5.7	9.3	10	61	104	6.1	9.7	10	7.8	3.2	1.4
5	4.6	5.7	8.8	10	101	172	6.1	9.7	10	7.6	3.4	1.4
6	4.6	5.7	7.0	11	50	166	6.1	9.7	10	7.4	3.2	1.4
7	4.6	5.7	9.7	69	16	162	6.4	9.7	10	7.4	3.2	1.6
8	4.6	5.7	9.7	345	3.9	122	6.1	9.7	10	6.4	3.0	1.6
9	4.9	5.7	9.7	439	6.1	5.4	6.4	9.7	10	4.9	3.0	1.3
10	5.1	5.7	4.6	448	6.1	5.7	6.7	9.7	8.4	5.4	3.0	1.1
11	5.1	5.7	5.4	240	6.1	5.7	7.7	9.7	7.7	5.4	3.0	1.2
12	4.9	5.7	9.3	57	6.1	30	9.3	9.7	7.7	5.1	2.9	1.2
13	4.6	9.8	9.3	2.3	6.1	58	8.8	9.7	7.7	5.1	2.9	1.3
14	4.6	160	9.3	2.3	6.1	69	8.4	9.7	7.7	4.9	2.9	1.6
15	4.4	154	9.7	2.5	6.1	78	9.7	9.7	7.7	4.7	2.9	1.6
16	4.4	138	9.7	92	6.1	76	11	9.7	7.7	4.5	2.7	1.6
17	4.4	4.6	9.7	162	6.1	76	11	9.7	7.7	4.4	2.7	1.6
18	4.4	3.9	9.7	126	6.4	75	11	9.7	7.7	4.4	2.7	1.6
19	4.4	4.1	9.7	79	6.7	75	11	9.7	7.7	4.4	2.7	1.5
20	4.8	5.1	9.7	116	6.4	73	11	9.7	7.7	4.1	2.5	1.5
21	5.1	8.1	9.7	114	6.4	73	11	9.7	7.7	4.0	2.5	1.5
22	5.4	9.3	9.7	81	6.4	38	11	9.7	7.7	4.0	2.5	1.5
23	5.7	9.3	9.7	86	6.4	5.4	83	9.7	7.4	4.0	2.5	1.5
24	5.7	9.3	9.7	40	6.4	5.4	128	9.7	7.4	4.0	2.3	1.5
25	5.7	9.3	9.7	26	6.4	5.4	138	9.7	7.4	3.7	2.2	1.6
26	5.7	9.3	9.7	3.0	6.4	5.7	46	9.7	7.5	3.7	2.0	1.6
27	5.7	9.3	9.3	2.7	6.4	5.7	10	9.7	7.5	3.7	2.0	1.7
28	6.1	9.3	9.3	83	6.4	5.7	9.7	9.7	7.6	3.7	1.8	1.7
29	5.9	9.3	9.3	118	-----	5.7	9.7	10	7.6	3.4	1.8	1.7
30	5.7	9.3	9.3	93	-----	5.7	9.7	10	7.7	3.4	1.6	1.6
31	5.7	-----	9.3	21	-----	5.7	-----	10	-----	3.2	1.4	-----
TOTAL	155.8	728.3	284.5	2,906.7	366.9	1,533.7	616.8	301.6	250.9	158.1	82.1	44.1
MEAN	5.03	24.3	9.18	93.8	13.1	49.5	20.6	9.73	8.36	5.10	2.65	1.47
MAX	6.1	160	10	448	101	172	138	10	10	8.0	3.4	1.7
MIN	4.4	3.9	4.6	2.3	2.5	5.4	5.7	9.7	7.4	3.2	1.4	1.1
AC-FT	309	1,440	564	5,770	728	3,040	1,220	598	498	314	163	87

CAL YR 1973 TOTAL 21,778.23 MEAN 59.7 MAX 2,690 MIN 1.57 AC-FT 43,200
WTR YR 1974 TOTAL 7,429.50 MEAN 20.4 MAX 448 MIN 1.1 AC-FT 14,740

11116000 NORTH FORK MATILILJA CREEK AT MATILILJA HOT SPRINGS, CALIF.

LOCATION.--Lat 34°29'33", long 119°18'20", in NE¼NW¼NE¼ sec.29, T.5 N., R.23 W., Ventura County, on right bank at bridge on U.S. Highway 399, 0.7 mi (1.1 km) north of Matililja Hot Springs, and 0.8 mi (1.3 km) upstream from mouth.

DRAINAGE AREA.--15.6 mi² (40.4 km²).

PERIOD OF RECORD.--October 1928 to September 1932, October 1933 to current year. Prior to October 1953, published as "at Matililja."

GAGE.--Water-stage recorder. Concrete control since September 1966. Datum of gage is 1,142.62 ft (348.271 m), revised, above mean sea level (levels by Ventura County Flood Control District). Prior to Nov. 12, 1948, at site 0.3 mi (0.5 km) downstream at different datum.

AVERAGE DISCHARGE.--45 years, 10.3 ft³/s (0.292 m³/s), 7,460 acre-ft/yr (9.20 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 544 ft³/s (15.4 m³/s) Jan. 7 (gage height, 3.44 ft or 1.049 m); minimum daily, 0.98 ft³/s (0.028 m³/s) July 26 to Aug. 4, Aug. 26-28, Sept. 12-26.
Period of record: Maximum discharge, 9,440 ft³/s (267 m³/s) Feb. 24, 1969 (gage height, 11.0 ft or 3.35 m, from floodmark), from rating curve extended above 1,700 ft³/s (48.1 m³/s) on basis of slope-area measurement at gage height 10.0 ft (3.05 m); minimum daily, 0.10 ft³/s (0.003 m³/s) for several days in some years.

REMARKS.--Records good. No regulation or diversion above station.

COOPERATION.--Records furnished by Ventura County Flood Control District and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	2.1	2.3	3.0	6.8	5.8	5.6	3.5	2.5	1.5	.98	1.2
2	2.4	2.4	7.8	3.0	6.4	13	5.2	3.2	2.5	1.6	.98	1.2
3	2.4	2.4	5.1	2.7	6.4	11	4.8	3.2	2.5	1.6	.98	1.2
4	2.4	2.4	4.8	8.8	6.4	8.6	4.8	3.2	2.5	1.6	.98	1.2
5	2.4	2.4	4.4	10	6.4	7.7	4.4	3.2	2.5	1.6	1.1	1.2
6	2.4	2.4	4.0	35	6.4	6.8	4.4	3.2	2.5	1.5	1.1	1.2
7	2.6	2.4	3.7	281	6.4	8.0	4.4	3.2	2.5	1.6	1.1	1.1
8	2.8	2.4	3.4	103	6.0	22	4.4	3.2	2.5	1.8	1.1	1.1
9	2.6	2.4	3.4	34	6.0	14	4.4	3.2	2.2	1.8	1.2	1.1
10	2.6	2.4	3.4	23	6.0	12	4.4	3.2	2.2	1.8	1.2	1.1
11	2.6	2.4	3.4	20	5.6	10	4.4	3.2	2.0	1.8	1.2	1.1
12	2.4	2.4	3.4	22	5.6	9.1	4.4	3.2	2.0	1.8	1.2	.98
13	2.4	2.4	3.1	20	5.6	8.6	4.4	3.2	2.0	1.8	1.3	.98
14	2.1	2.4	3.1	18	5.2	8.2	4.4	3.2	1.8	1.8	1.3	.98
15	2.1	2.4	3.1	15	5.2	7.7	4.1	3.0	1.8	1.8	1.3	.98
16	2.1	2.4	3.1	16	5.2	7.7	4.1	3.0	1.8	1.6	1.3	.98
17	2.1	6.1	3.1	25	5.2	7.2	4.1	3.0	1.8	1.5	1.3	.98
18	2.1	8.2	3.1	15	5.2	7.2	4.1	3.0	1.8	1.4	1.3	.98
19	1.9	4.0	3.1	14	4.4	6.8	4.1	3.0	1.8	1.4	1.3	.98
20	1.9	3.7	3.1	13	4.8	6.8	3.8	3.0	1.8	1.3	1.3	.98
21	2.1	3.4	3.1	12	4.4	6.8	3.8	3.0	1.6	1.3	1.3	.98
22	2.1	4.2	3.4	11	4.8	6.4	3.8	2.7	1.6	1.3	1.3	.98
23	3.1	3.7	3.1	9.7	4.8	6.0	3.8	2.7	1.6	1.2	1.2	.98
24	2.6	3.4	3.1	9.1	4.4	6.0	3.8	2.7	1.6	1.2	1.1	.98
25	2.6	3.4	3.1	8.6	4.4	6.0	3.8	2.5	1.5	1.1	1.1	.98
26	2.6	3.4	3.1	8.2	4.4	6.0	3.8	2.5	1.5	.98	.98	.98
27	2.4	3.4	3.1	7.7	4.8	6.8	3.5	2.5	1.5	.98	.98	1.1
28	2.4	3.4	3.1	7.7	4.8	6.0	3.5	2.5	1.5	.98	.98	1.1
29	2.1	3.4	3.1	7.2	-----	6.0	3.5	2.5	1.5	.98	1.1	1.1
30	2.1	3.4	3.1	7.2	-----	6.0	3.5	2.5	1.5	.98	1.1	1.1
31	2.1	-----	3.1	7.2	-----	6.0	-----	2.7	-----	.98	1.2	-----
TOTAL	72.9	95.2	129.0	777.1	152.8	256.2	125.5	91.9	58.4	44.58	35.86	31.80
MEAN	2.35	3.17	4.16	25.1	5.46	8.26	4.18	2.96	1.95	1.44	1.16	1.06
MAX	3.1	8.2	23	281	6.8	22	5.6	3.5	2.5	1.8	1.3	1.2
MIN	1.9	2.1	3.1	2.7	4.4	5.8	3.5	2.5	1.5	.98	.98	.98
AC-FT	145	189	256	1,540	303	508	249	182	116	88	71	63

CAL YR 1973 TOTAL 8,512.90 MEAN 23.3 MAX 1,330 MIN 1.7 AC-FT 16,890
WTR YR 1974 TOTAL 1,871.24 MEAN 5.13 MAX 281 MIN .98 AC-FT 3,710

PEAK DISCHARGE (BASE, 40 FT²/S).--Dec. 1 (0930) 92 ft²/s (2.25 ft); Jan. 7 (0800) 544 ft³/s (3.44 ft).

VENTURA RIVER BASIN

11116550 VENTURA RIVER NEAR MEINERS OAKS, CALIF.

LOCATION.--Lat 34°27'54", long 119°17'20", in SE¼SW¼SE¼ sec.33, T.5 N., R.23 W., Ventura County, on right bank 50 ft (15 m) downstream from Robles diversion dam, and 1.2 mi (1.9 km) northwest of Meiners Oaks.

DRAINAGE AREA.--76.4 mi² (197.9 km²).

PERIOD OF RECORD.--May 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 750.00 ft (228.600 m) above mean sea level (Bureau of Reclamation bench mark). Prior to Oct. 30, 1969, at site 500 ft (152 m) downstream at datum 5.40 ft (1.646 m) lower.

EXTREMES.--Current year: Maximum discharge, 225 ft³/s (6.37 m³/s) Jan. 14 (gage height, 3.70 ft or 1.128 m), from rating curve extended above 23 ft³/s (0.65 m³/s); no flow Mar. 9-11, July 11 to Sept. 30.

Period of record: Maximum discharge, 28,000 ft³/s (793 m³/s), estimated, Jan. 25, 1969 (gage height, unknown); no flow for several months in most years.

REMARKS.--Records poor. Flow regulated by Matilija Reservoir, capacity, 3,800 acre-ft (4.69 hm³). Flow up to 500 ft³/s (14.2 m³/s) diverted since May 1959 at Robles diversion dam to Lake Casitas on Coyote Creek. Flow reported herein is that released through gates in Robles diversion dam.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	.08	23	7.6	5.1	6.9	8.0	6.5	5.8	2.2		
2	.69	.08	19	7.6	5.9	16	8.0	6.5	5.5	1.7		
3	.71	.08	11	7.3	5.5	11	6.5	6.9	5.8	1.6		
4	.80	.08	10	14	9.3	6.5	5.8	6.5	6.2	.92		
5	.89	.09	9.3	15	11	.34	5.1	7.3	5.8	.73		
6	1.1	.08	6.9	16	8.8	.24	5.1	9.7	5.1	.40		
7	1.4	.08	8.4	3.3	8.4	.19	4.8	8.0	5.1	.15		
8	2.1	.08	8.4	3.8	7.6	.12	4.5	7.6	5.5	.19		
9	1.0	.08	8.0	.34	7.3	0	4.3	7.3	5.5	.40		
10	.9	.22	5.5	4.3	8.4	0	4.3	6.9	4.8	.48		
11	1.0	.28	2.4	6.5	8.4	0	4.8	6.5	4.3	0		
12	.93	.34	7.3	7.3	8.4	1.3	5.8	6.5	3.5	0		
13	.61	.43	7.6	6.5	7.6	4.0	5.5	6.9	3.8	0		
14	.47	.34	7.6	12	7.3	5.8	5.8	6.9	3.5	0		
15	1.2	.22	7.3	11	7.3	6.9	6.9	6.9	3.1	0		
16	.91	.19	7.7	13	7.3	6.2	8.0	6.5	3.8	0		
17	1.3	12	7.7	12	7.3	5.1	7.6	6.9	3.8	0		
18	1.2	11	7.7	8.4	6.2	6.5	8.0	6.5	2.2	0		
19	.86	4.3	7.7	8.4	5.1	8.0	7.6	6.9	2.4	0		
20	.84	4.0	7.7	7.6	5.8	8.0	7.6	6.2	2.4	0		
21	.90	5.8	7.7	6.9	5.5	8.0	8.0	6.2	2.8	0		
22	1.1	8.0	7.7	6.5	5.5	7.6	7.6	6.5	2.8	0		
23	1.3	8.4	7.7	6.9	5.5	7.3	9.3	5.8	2.8	0		
24	1.4	7.6	7.7	10	5.1	7.5	9.7	6.2	2.8	0		
25	.94	7.6	7.7	14	5.5	7.7	12	5.8	2.2	0		
26	1.0	7.6	7.6	11	5.1	7.9	13	5.8	2.2	0		
27	.71	8.0	7.3	7.3	5.5	8.0	9.3	5.8	2.1	0		
28	.78	7.6	7.6	13	6.2	8.0	7.3	6.2	1.6	0		
29	.45	8.0	7.3	15	-----	7.6	7.3	5.8	1.4	0		
30	.10	8.0	6.9	14	-----	7.3	6.9	6.2	1.9	0		
31	.10	-----	6.9	9.3	-----	6.9	-----	6.2	-----	0		-----
TOTAL	29.19	110.64	262.3	285.84	191.9	176.89	214.4	206.4	110.5	8.77	0	0
MEAN	.94	3.69	8.46	9.22	6.85	5.71	7.15	6.66	3.68	.28	0	0
MAX	2.1	12	23	16	11	16	13	9.7	6.2	2.2	0	0
MIN	.10	.08	2.4	.34	5.1	0	4.3	5.8	1.4	0	0	0
AC-FT	58	219	520	567	381	351	425	409	219	17	0	0
CAL YR 1973	TOTAL 8,102.17		MEAN 22.2		MAX 3,620	MIN 0	AC-FT 16,070					
WTR YR 1974	TOTAL 1,596.83		MEAN 4.37		MAX 23	MIN 0	AC-FT 3,170					

11117500 SAN ANTONIO CREEK AT CASITAS SPRINGS, CALIF.

LOCATION.--Lat 34°22'49", long 119°18'13", in Santa Ana Grant, Ventura County, on downstream side of bridge on U.S. Highway 399, 0.2 mi (0.3 km) upstream from mouth, and 0.9 mi (1.4 km) north of Casitas Springs.

DRAINAGE AREA.--51.2 mi² (132.6 km²).

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 306.72 ft (93.488 m), revised, above mean sea level (levels by Ventura County Flood Control District). Prior to Jan. 30, 1962, at datum 0.83 ft (0.253 m) higher.

AVERAGE DISCHARGE.--25 years, 11.5 ft³/s (0.326 m³/s), 8,330 acre-ft/yr (10.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,230 ft³/s (34.8 m³/s) Jan. 7 (gage height, 8.08 ft or 2.463 m); minimum daily, 0.29 ft³/s (0.008 m³/s) Sept. 15-18, 21-25.

Period of record: Maximum discharge, 16,200 ft³/s (459 m³/s) Jan. 25, 1969 (gage height, 14.30 ft or 4.359 m, from inside gage), from rating curve extended above 2,000 ft³/s (56.6 m³/s) on basis of slope-area measurement of maximum flow; no flow for several months in most years.

REMARKS.--Records good. No regulation above station; pumping from wells along creek for irrigation.

COOPERATION.--Records furnished by Ventura County Flood Control District and reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	1.9	15	2.6	6.5	6.9	6.9	5.0	3.3	1.7	.76	.64
2	2.3	1.9	4.6	2.6	6.5	39	7.3	5.0	3.3	1.7	.76	.64
3	2.3	1.9	3.6	2.6	6.1	31	6.9	5.0	3.0	1.7	.76	.64
4	3.0	1.9	3.3	47	6.1	10	6.9	5.0	2.8	1.6	.76	.64
5	2.3	1.9	2.4	14	6.1	8.3	6.9	5.0	2.8	1.6	.76	.64
6	2.6	1.9	2.3	75	5.7	7.8	6.9	5.0	2.6	1.5	.76	.53
7	2.6	1.9	2.1	683	5.7	11	6.9	4.6	2.8	1.5	.89	.53
8	3.3	1.9	2.1	119	5.7	60	6.5	5.0	2.6	1.5	1.0	.53
9	3.0	2.1	2.1	32	5.3	14	6.5	4.6	2.3	1.4	1.0	.53
10	2.4	2.3	2.1	18	5.3	8.8	6.5	4.6	2.1	1.4	1.0	.44
11	2.3	2.6	2.1	15	5.3	8.3	6.5	4.2	2.6	1.3	1.0	.44
12	2.6	2.6	2.1	14	5.7	7.8	6.5	4.2	2.8	1.3	1.0	.44
13	2.3	2.6	2.1	12	5.7	7.8	6.1	4.2	2.6	1.2	1.0	.36
14	2.1	2.6	2.1	12	5.7	7.3	6.1	4.2	2.3	1.0	1.2	.36
15	2.1	2.6	2.1	10	5.3	6.9	6.1	3.9	2.1	1.0	1.2	.29
16	2.1	2.6	2.1	12	5.3	6.9	6.1	3.9	1.9	.89	1.2	.29
17	1.9	3.8	2.3	22	5.7	6.9	6.1	3.9	1.9	.76	1.0	.29
18	2.1	13	2.3	13	5.7	7.3	6.1	3.6	1.9	.76	1.0	.29
19	2.1	3.3	2.3	9.3	5.7	7.3	6.1	3.6	1.9	.76	1.0	.36
20	2.1	3.1	2.6	12	5.7	7.3	6.1	3.6	1.9	.76	.89	.44
21	2.1	2.8	2.8	9.8	5.7	7.3	5.7	3.3	1.9	.76	.89	.29
22	2.1	5.8	3.9	8.3	5.7	7.8	5.7	3.3	1.9	.76	.89	.29
23	3.5	5.8	2.8	7.8	5.7	7.8	5.7	3.3	1.8	.76	.89	.29
24	2.1	3.3	2.6	7.8	5.7	7.3	5.7	3.3	1.8	.76	.89	.29
25	2.1	3.0	2.6	7.3	5.7	7.8	5.7	3.3	1.8	.76	.89	.29
26	2.1	2.8	2.6	7.3	5.7	8.3	5.3	3.3	1.8	.76	.89	.36
27	2.1	2.8	2.6	7.3	5.7	15	5.3	3.3	1.8	.76	.76	.44
28	2.1	2.6	2.6	7.3	6.1	8.3	5.3	3.3	1.7	.76	.76	.44
29	2.1	2.6	2.6	7.3	-----	7.8	5.0	3.3	1.7	.76	.76	.36
30	1.9	2.6	2.6	6.9	-----	8.3	5.3	3.6	1.7	.76	.64	.36
31	1.9	-----	2.8	6.9	-----	7.3	-----	3.6	-----	.76	.64	-----
TOTAL	74.5	92.5	91.7	1,211.3	160.8	363.6	184.7	125.0	67.4	33.69	27.84	12.73
MEAN	2.40	3.02	2.96	39.1	5.74	11.7	6.16	4.03	2.25	1.09	.90	.42
MAX	3.5	13	15	683	6.5	60	7.3	5.0	3.3	1.7	1.2	.64
MIN	1.9	1.9	2.1	2.6	5.3	6.9	5.0	3.3	1.7	.76	.64	.29
AC-FT	144	183	182	2,490	319	721	366	248	134	67	55	25

CAL YR 1973 TOTAL 9,777.82 MEAN 26.8 MAX 2,500 MIN .64 AC-FT 19,390
 WTR YR 1974 TOTAL 2,446.26 MEAN 6.70 MAX 623 MIN .29 AC-FT 4,850

PEAK DISCHARGE (BASE, 200 FT³/S).--Jan. 4 (0900) 280 ft³/s (7.40 ft); Jan. 7 (1400) 1,230 ft³/s (8.08 ft).

11117600 COYOTE CREEK NEAR OAK VIEW, CALIF.

LOCATION.--Lat 34°25'02", long 119°22'01", in Santa Ana Grant, Ventura County, on right bank 1,000 ft (305 m) downstream from Los Padres National Forest boundary, 0.6 mi (1.0 km) upstream from Poplin Creek, and 4.2 mi (6.8 km) northwest of Oak View.

DRAINAGE AREA.--13.2 mi² (34.2 km²).

PERIOD OF RECORD.--October 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 560.47 ft (170.831 m) above mean sea level (Bureau of Reclamation bench mark).

AVERAGE DISCHARGE.--16 years, 6.74 ft³/s (0.191 m³/s), 4,880 acre-ft/yr (6.02 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 760 ft³/s (21.5 m³/s) Jan. 7 (gage height, 7.28 ft or 2.219 m); minimum daily, 0.12 ft³/s (0.003 m³/s) Sept. 22-24.

Period of record: Maximum discharge, 8,000 ft³/s (227 m³/s) Jan. 25, 1969 (gage height, 12.00 ft or 3.658 m, from floodmarks), from rating curve extended above 2,100 ft³/s (59.5 m³/s) on basis of slope-area measurements at gage heights 9.10 ft (2.774 m) and 12.00 ft (3.658 m); no flow at times in some years.

REMARKS.--Records good. No regulation or diversion above station.

COOPERATION.--One discharge measurement furnished by Casitas Municipal Water District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.70	.50	9.1	.87	3.6	2.0	4.0	1.1	.87	.56	.31	.23
2	.70	.50	2.7	.87	3.1	13	4.4	1.2	.87	.56	.31	.23
3	.70	.50	1.7	.95	3.3	18	3.6	1.4	.87	.56	.36	.19
4	.63	.56	1.2	13	3.3	6.7	3.6	1.3	.87	.56	.31	.19
5	.63	.56	1.2	6.5	3.1	4.9	3.3	1.3	.87	.56	.31	.19
6	.70	.56	1.1	76	2.9	4.4	3.3	1.3	.95	.56	.27	.19
7	.63	.56	1.1	484	2.9	8.9	2.9	1.3	.95	.56	.27	.19
8	.70	.56	1.0	144	2.7	43	2.9	1.2	.87	.56	.31	.23
9	.63	.56	.87	27	2.7	14	2.7	1.1	.78	.56	.31	.19
10	.63	.56	.87	14	2.7	11	2.7	1.1	.87	.56	.31	.19
11	.63	.56	.87	10	2.3	9.2	2.3	1.1	.87	.56	.36	.23
12	.63	.56	.87	9.2	2.3	8.5	2.2	1.0	.78	.56	.31	.23
13	.63	.56	.87	8.1	2.3	7.4	2.0	1.0	.70	.50	.31	.23
14	.63	.56	.87	7.7	2.0	6.7	1.9	1.0	.70	.50	.31	.19
15	.56	.56	.87	6.7	1.9	6.2	1.9	1.0	.70	.50	.31	.19
16	.50	.70	.87	6.7	1.9	5.7	1.9	1.0	.70	.50	.31	.15
17	.50	1.0	.87	12	1.9	6.0	1.6	1.0	.63	.43	.31	.15
18	.43	4.4	.87	9.2	2.0	5.7	1.7	1.2	.63	.43	.27	.19
19	.43	.95	.87	7.7	2.0	5.4	1.6	1.2	.63	.43	.31	.19
20	.50	.78	.87	7.7	2.0	5.4	1.5	1.1	.63	.43	.31	.19
21	.56	.87	.87	6.7	1.9	5.2	1.5	1.0	.63	.36	.31	.15
22	.56	1.0	.95	6.0	1.7	5.2	1.5	.95	.63	.43	.31	.12
23	.63	.95	.87	5.2	1.7	5.2	1.4	.90	.56	.36	.27	.12
24	.50	.78	.87	5.2	1.7	4.9	1.5	.85	.63	.36	.27	.12
25	.43	.87	.95	4.9	1.6	4.9	1.4	.82	.56	.36	.27	.15
26	.50	.78	.87	4.9	1.6	5.2	1.4	.82	.56	.36	.27	.19
27	.50	.78	.95	4.4	1.6	7.3	1.2	.83	.50	.36	.27	.23
28	.50	.87	.87	4.0	1.7	5.4	1.2	.84	.50	.31	.27	.19
29	.50	.87	.87	4.2	-----	4.9	1.1	.80	.56	.31	.27	.19
30	.50	.87	.87	4.0	-----	5.2	1.1	.84	.56	.36	.27	.15
31	.43	-----	.87	3.8	-----	4.4	-----	.80	-----	.31	.23	-----
TOTAL	17.70	24.69	38.35	905.44	64.4	249.9	65.3	32.35	21.43	14.32	9.19	5.57
MEAN	.57	.82	1.24	29.2	2.30	8.06	2.18	1.04	.71	.46	.30	.19
MAX	.70	4.4	8.1	484	3.6	43	4.4	1.4	.95	.56	.36	.23
MIN	.43	.50	.87	.87	1.6	2.0	1.1	.80	.50	.31	.23	.12
AC-FT	35	49	76	1,800	128	496	130	64	43	28	18	11

CAL YR 1973 TOTAL 6,189.31 MEAN 16.9 MAX 1,190 MIN .33 AC-FT 12,260
WTR YR 1974 TOTAL 1,448.69 MEAN 3.97 MAX 484 MIN .12 AC-FT 2,870

PEAK DISCHARGE (BASE, 150 FT³/S).--Jan. 7 (1045) 760 ft³/s (7.28 ft).

11117800 SANTA ANA CREEK NEAR OAK VIEW, CALIF.

LOCATION.--Lat 34°25'25", long 119°20'25", in Santa Ana Grant, Ventura County, on upstream end of right abutment of bridge, 400 ft (122 m) upstream from unnamed tributary, and 3.0 mi (4.8 km) northwest of Oak View.

DRAINAGE AREA.--9.11 mi² (23.6 km²).

PERIOD OF RECORD.--October 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 612.43 ft (186.669 m) above mean sea level (Bureau of Reclamation bench mark). Prior to Aug. 17, 1970, on downstream end of right abutment.

AVERAGE DISCHARGE.--16 years, 5.50 ft³/s (0.156 m³/s), 3,980 acre-ft/yr (4.91 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 516 ft³/s (14.6 m³/s) Jan. 7 (gage height, 6.96 ft or 2.121 m); no flow Oct. 18, 19, 31, July 16 to Sept. 30.

Period of record: Maximum discharge, 4,730 ft³/s (134 m³/s) Jan. 25, 1969 (gage height, 10.70 ft or 3.261 m); no flow at times in each year.

Flood of Mar. 2, 1938, 3,780 ft³/s (107 m³/s), by slope-area measurement at site 2.0 mi (3.2 km) downstream.

REMARKS.--Records good. No regulation or diversion above station.

COOPERATION.--One discharge measurement furnished by Casitas Municipal Water District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.01	17	.80	3.4	2.0	1.7	.58	.45	.11		
2	.09	.02	1.3	.72	3.2	14	1.7	.74	.39	.11		
3	.45	.15	1.2	.72	2.9	16	1.4	.90	.39	.10		
4	.51	.25	1.2	8.1	2.7	6.4	1.3	.90	.45	.07		
5	.34	.25	1.1	8.7	2.5	4.9	1.1	.87	.45	.07		
6	.34	.25	.86	52	2.3	4.1	.80	.82	.39	.07		
7	.51	.21	.70	280	2.3	8.7	.72	.78	.45	.07		
8	.98	.25	.64	84	2.2	37	.72	.72	.45	.07		
9	.88	.29	.51	21	2.1	15	.65	.79	.30	.06		
10	.51	.34	.44	12	2.0	11	.88	.77	.21	.07		
11	.39	.29	.48	8.3	1.9	8.7	1.1	.68	.21	.06		
12	.30	.29	.62	7.8	1.9	6.7	.98	.70	.21	.04		
13	.15	.34	.59	7.7	1.9	6.1	.98	.72	.21	.02		
14	.08	.34	.57	7.5	1.6	5.2	.88	.66	.18	.01		
15	.06	.34	.54	7.0	.92	4.6	.98	.63	.15	.01		
16	.04	.45	.45	7.7	.88	3.9	.88	.65	.15	0		
17	.03	1.1	.39	14	.84	3.7	.88	1.1	.15	0		
18	0	7.3	.37	12	.68	3.5	.98	1.6	.12	0		
19	0	1.8	.31	9.7	.66	3.3	.88	1.1	.12	0		
20	.01	1.3	.26	8.8	.85	2.9	.89	.60	.12	0		
21	.03	1.2	.25	7.4	.84	2.7	.87	.56	.12	0		
22	.03	1.4	.41	6.4	.81	2.3	.81	.51	.12	0		
23	.72	1.8	.48	5.9	.81	1.9	.86	.50	.12	0		
24	.51	1.7	.54	5.4	.76	2.2	.90	.50	.12	0		
25	.34	1.6	.62	5.1	.80	1.9	.87	.42	.10	0		
26	.21	1.6	.58	4.9	.80	2.0	.84	.31	.10	0		
27	.12	1.4	.72	4.5	.80	3.1	.79	.28	.08	0		
28	.08	1.6	.72	4.2	1.2	2.1	.72	.33	.08	0		
29	.04	1.6	.72	4.0	-----	1.9	.68	.42	.08	0		
30	.01	1.6	.72	3.8	-----	2.1	.60	.51	.09	0		
31	0	-----	.65	3.5	-----	2.0	-----	.49	-----	0		-----
TOTAL	7.80	31.07	35.94	613.64	44.55	191.9	28.34	21.14	6.56	.94	0	0
MEAN	.25	1.04	1.16	19.8	1.59	6.19	.94	.68	.22	.030	0	0
MAX	.98	7.3	17	280	3.4	37	1.7	1.6	.45	.11	0	0
MIN	0	.01	.25	.72	.66	1.9	.60	.28	.08	0	0	0
AC-FT	15	62	71	1,220	88	381	56	42	13	1.9	0	0

CAL YR 1973 TOTAL 4,468.70 MEAN 12.2 MAX 753 MIN 0 AC-FT 8,860
WTR YR 1974 TOTAL 981.88 MEAN 2.69 MAX 280 MIN 0 AC-FT 1,950

PEAK DISCHARGE (BASE, 150 FT³/S).--Dec. 1 (0930) 163 ft³/s (6.21 ft); Jan. 7 (0800) 516 ft³/s (6.96 ft).

VENTURA RIVER BASIN

11118000 COYOTE CREEK NEAR VENTURA, CALIF.

LOCATION.--Lat 34°21'26", long 119°18'46", near southeast corner of Santa Ana Grant, Ventura County, on right bank 200 ft (61 m) downstream from county highway bridge, 0.3 mi (0.5 km) upstream from mouth, and 5.5 mi (8.8 km) northwest of Ventura.

DRAINAGE AREA.--41.2 mi² (106.7 km²).

PERIOD OF RECORD.--October 1927 to September 1932, October 1933 to September 1958, October 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 224.95 ft (68.565 m) above mean sea level (Ventura County Flood Control bench mark). See WSP 1735 for history of changes prior to Oct. 1, 1969.

AVERAGE DISCHARGE.--30 years (1927-32, 1933-58), 13.2 ft³/s (0.374 m³/s), 9,560 acre-ft/yr (11.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 58 ft³/s (1.64 m³/s) Jan. 7 (gage height, 7.49 ft or 2.283 m); no flow many days.

Period of record: Maximum discharge, 11,500 ft³/s (326 m³/s) Mar. 2, 1938, on basis of slope-area measurement of maximum flow; no flow at times in some years.

REMARKS.--Records good. Flow mostly regulated by Casitas Reservoir since October 1959, capacity, 267,000 acre-ft (329 hm³).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	0	1.1	.16	.41	.65	.42	.20	.11	.07		
2	.03	.03	.38	.13	.40	2.9	.53	.21	.11	.07		
3	.04	.06	.36	.13	.40	.31	.47	.22	.11	.06		
4	.05	.08	.35	.41	.40	.22	.44	.22	.12	.06		
5	.05	.08	.31	.03	.36	.22	.42	.21	.12	.07		
6	.04	.08	.32	.84	.36	.22	.39	.20	.12	.07		
7	.07	.07	.29	30	.36	.55	.36	.19	.14	.06		
8	.07	.09	.30	9.6	.36	1.2	.36	.19	.14	.06		
9	.08	.09	.28	1.3	.36	.26	.34	.19	.12	.06		
10	.07	.09	.25	.74	.36	.25	.38	.18	.11	.06		
11	.04	.09	.25	.59	.35	.25	.38	.17	.11	.06		
12	0	.04	.29	.59	.36	.25	.38	.16	.12	.05		
13	.01	.08	.31	.50	.36	.25	.35	.15	.12	.04		
14	0	.04	.36	.64	.36	.25	.36	.15	.11	.05		
15	0	.09	.35	.81	.36	.25	.36	.14	.10	.04		
16	0	.13	.39	.82	.36	.25	.34	.14	.09	.02		
17	0	.55	.32	.99	.37	.25	.33	.13	.09	0		
18	0	.54	.29	.67	.36	.27	.31	.14	.09	0		
19	0	.27	.28	.65	.32	.29	.30	.13	.09	0		
20	0	.26	.25	.63	.32	.30	.29	.13	.09	0		
21	0	.25	.25	.61	.32	.29	.27	.13	.09	0		
22	.05	.46	.21	.56	.33	.30	.28	.13	.09	0		
23	.23	.40	.29	.55	.34	.31	.29	.13	.09	0		
24	.17	.35	.19	.55	.32	.30	.27	.11	.09	0		
25	.12	.27	.21	.55	.33	.31	.27	.11	.08	0		
26	.12	.28	.17	.47	.35	.36	.27	.11	.08	0		
27	.19	.24	.21	.45	.36	.59	.26	.11	.07	0		
28	.05	.29	.21	.45	.38	.40	.25	.11	.06	0		
29	.03	.33	.20	.45	-----	.38	.24	.11	.06	0		
30	0	.34	.18	.45	-----	.41	.20	.12	.07	0		
31	0	-----	.16	.44	-----	.39	-----	.11	-----	0		-----
TOTAL	1.44	6.14	9.17	55.79	10.03	12.53	10.11	4.73	2.99	.90	0	0
MEAN	.244	.20	.30	1.80	.36	.40	.34	.15	.10	.029	0	0
MAX	.23	.58	1.1	30	.41	2.0	.53	.22	.14	.07	0	0
MIN	0	0	.16	.03	.32	.22	.20	.11	.06	0	0	0
AC-FT	2.9	12	18	111	20	25	20	9.4	5.9	1.8	0	0

CAL YR 1973 TOTAL 484.07 MEAN 1.33 MAX 100 MIN 0 AC-FT 960
 NTR YR 1974 TOTAL 113.47 MEAN .31 MAX 30 MIN 0 AC-FT 226

11118500 VENTURA RIVER NEAR VENTURA, CALIF.

LOCATION.--Lat 34°21'08", long 119°18'27", in southeast corner of Santa Ana Grant, Ventura County, on right bank 50 ft (15 m) downstream from county road bridge at Foster Memorial Park, 0.2 mi (0.3 km) downstream from Coyote Creek, and 5 mi (8 km) north of Ventura.

DRAINAGE AREA.--188 mi² (487 km²).

PERIOD OF RECORD.--September 1911 to January 1914, October 1929 to current year; combined records of river and diversion, October 1932 to current year.

GAGE.--Water-stage recorder on river; water-stage recorder and Parshall flume on diversion. Datum of gage is 205.23 ft (62.554 m) above mean sea level (Ventura County Flood Control bench mark). See WSP 1315-B for history of changes prior to Nov. 2, 1949. Nov. 2, 1949, to June 12, 1969, at site 450 ft (137 m) downstream at datum 4.00 ft (1.219 m) lower.

AVERAGE DISCHARGE (River only).--47 years (1911-13, 1929-74), 55.7 ft³/s (1.577 m³/s), 40,350 acre-ft/yr (49.8 hm³/yr).

(Combined river and diversion).--42 years, 65.0 ft³/s (1.841 m³/s), 47,090 acre-ft/yr (58.1 hm³/yr).

EXTREMES (River only).--Current year: Maximum discharge, 2,540 ft³/s (71.9 m³/s) Jan. 7 (gage height, 8.59 ft or 2.618 m); no flow Oct. 15-20, Dec. 15, 16.

Period of record: Maximum discharge, 58,000 ft³/s (1,640 m³/s) Jan. 25, 1969 (gage height, 24.3 ft or 7.41 m, present datum, from floodmarks), from rating curve extended above 19,600 ft³/s (555 m³/s) on basis of contracted-opening measurement of maximum flow; no flow at times in many years.

(Combined flow).--Current year: Maximum discharge, 2,550 ft³/s (72.2 m³/s) Jan. 7; minimum daily, 5.8 ft³/s (0.16 m³/s) Sept. 2.

Period of record: Maximum discharge, 58,000 ft³/s (1,640 m³/s) Jan. 25, 1969; minimum daily, 0.10 ft³/s (0.003 m³/s) Sept. 3, 4, 13, 1961

REMARKS.--Records good. Flow partly regulated since March 1948 by Matilija Reservoir, capacity, 3,800 acre-ft (4.69 hm³) and since October 1959 by Casitas Reservoir, capacity, 267,000 acre-ft (329 hm³). Water diverted to Casitas Reservoir on Coyote Creek since January 1959. Diversion by city of Ventura for municipal supply began prior to 1911. AVERAGE DISCHARGE (River only) represents flow to ocean regardless of upstream development. For records of combined discharge of river and Ventura City diversion, see following page. Records of chemical analyses, water temperatures, and sediment discharge for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	.60	27	9.8	24	22	23	17	11	3.9	11	1.6
2	1.8	.45	14	9.1	23	107	21	18	12	4.5	4.3	4.5
3	2.3	2.0	9.7	9.1	21	77	19	16	9.0	3.7	6.4	5.4
4	3.2	2.9	3.2	56	19	43	20	19	7.8	7.0	8.7	2.0
5	4.2	2.5	.37	7.9	20	32	22	22	9.4	3.6	9.4	1.1
6	4.4	1.7	1.3	104	19	28	23	17	8.3	1.2	9.8	4.4
7	4.4	1.6	1.5	1,800	18	33	23	11	8.5	2.0	12	5.4
8	5.9	1.7	1.4	291	18	104	22	22	11	3.4	12	6.1
9	4.1	1.3	1.2	94	18	43	22	26	8.2	3.2	9.5	6.5
10	3.4	.71	6.7	62	19	35	23	22	7.1	2.0	4.8	2.6
11	2.1	1.1	11	55	19	33	22	25	8.6	1.9	4.8	6.7
12	1.7	2.9	11	45	18	29	22	26	10	2.1	6.4	8.2
13	1.4	2.7	7.4	36	18	27	20	16	11	2.1	10	4.5
14	.14	1.4	.06	31	19	25	16	8.7	9.9	2.3	8.3	7.7
15	0	.22	0	30	19	26	16	8.3	8.6	1.8	4.9	6.5
16	0	.36	0	30	19	26	15	11	11	2.0	6.9	2.5
17	0	1.5	.20	61	20	26	16	14	9.3	3.3	7.7	7.2
18	0	.20	.67	35	20	26	16	13	7.6	7.3	6.1	5.0
19	0	7.2	.97	26	19	27	15	10	8.4	8.7	7.3	8.1
20	0	4.5	1.2	28	16	28	16	11	9.3	10	7.8	5.9
21	.08	1.7	1.7	24	17	26	16	13	8.9	9.5	7.6	6.6
22	2.5	.89	2.7	23	19	27	19	7.5	9.7	10	5.3	7.0
23	3.9	13	4.5	22	18	28	20	10	8.4	8.2	2.7	2.1
24	3.8	6.9	5.1	22	19	25	19	12	6.9	8.6	4.9	2.4
25	3.4	2.9	5.8	26	19	21	16	17	5.4	7.7	5.2	5.3
26	3.6	.35	5.7	25	21	22	19	15	5.3	5.3	5.2	6.6
27	3.2	.64	4.4	23	20	33	20	10	3.7	5.2	4.5	6.0
28	2.8	1.2	3.6	23	20	25	19	9.1	3.6	7.9	6.7	5.8
29	2.0	1.0	4.1	30	-----	23	17	9.2	3.6	8.6	8.7	5.6
30	2.2	1.5	4.0	30	-----	26	14	9.4	3.2	11	7.7	2.8
31	.83	-----	5.7	29	-----	24	-----	7.7	-----	11	2.7	-----
TOTAL	69.15	87.42	146.17	3,096.9	539	1,077	571	452.9	244.7	169.0	219.3	152.1
MEAN	2.23	2.91	4.72	99.9	19.3	34.7	19.0	14.6	8.16	5.45	7.07	5.07
MAX	5.9	20	27	1,800	24	107	23	26	12	11	12	8.2
MIN	0	.22	0	7.9	16	21	14	7.5	3.2	1.2	2.7	1.1
AC-FT	137	173	290	6,140	1,070	2,140	1,130	898	485	335	435	302
CAL YR 1973	TOTAL	23,655.44	MEAN	64.8	MAX	7,130	MIN	0	AC-FT	46,920		
WTR YR 1974	TOTAL	6,824.64	MEAN	18.7	MAX	1,820	MIN	0	AC-FT	13,540		

VENTURA RIVER BASIN

11118500 VENTURA RIVER NEAR VENTURA, CALIF.--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF VENTURA RIVER AND VENTURA CITY DIVERSION NEAR VENTURA, CALIF., WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	14	34	14	25	24	26	19	19	15	16	10
2	15	11	20	15	23	110	26	21	20	14	14	5.8
3	14	11	18	17	21	79	25	20	19	15	8.4	11
4	15	13	15	63	23	44	23	21	20	12	11	11
5	14	14	8.4	17	26	33	24	24	19	19	12	11
6	15	12	9.3	113	24	29	25	25	21	16	11	7.0
7	17	10	11	1,810	23	34	25	22	21	15	13	10
8	15	13	9.3	299	20	107	24	27	20	12	15	9.8
9	14	12	11	101	18	46	24	28	20	13	18	9.6
10	14	11	9.7	70	19	37	25	26	22	16	14	11
11	13	8.0	11	62	22	33	24	27	18	13	12	7.7
12	12	11	11	52	22	31	24	28	19	15	10	10
13	11	14	13	43	20	30	22	27	22	14	13	10
14	10	13	14	38	21	28	18	23	21	14	14	10
15	11	11	13	37	21	28	18	19	20	14	13	10
16	11	10	8.5	38	19	26	17	20	20	13	9.9	9.5
17	11	12	7.8	69	20	26	18	22	20	13	12	8.3
18	13	30	9.1	43	20	28	18	23	19	16	11	9.4
19	13	17	10	34	23	28	18	20	19	13	11	9.5
20	13	14	9.4	36	22	28	18	21	19	15	12	12
21	9.2	13	9.5	32	19	28	18	22	22	15	11	8.3
22	9.4	6.8	11	28	20	28	21	21	20	15	14	11
23	15	22	12	29	20	28	22	20	19	13	9.9	11
24	15	17	11	25	21	27	24	21	19	14	7.9	6.5
25	13	13	12	33	21	24	20	24	17	13	8.3	7.0
26	14	9.9	12	24	21	25	21	22	18	15	9.5	8.6
27	15	8.2	12	25	21	35	22	19	18	13	10	9.4
28	15	10	11	24	21	27	21	23	16	9.4	7.1	8.9
29	13	11	12	30	-----	26	21	19	16	11	9.2	9.0
30	13	9.0	12	30	-----	27	18	22	14	11	13	8.8
31	12	-----	13	30	-----	26	-----	21	-----	11	13	-----
TOTAL	409.6	380.9	380.0	3,286	596	1,130	650	697	577	427.4	363.2	281.1
MEAN	13.2	12.7	12.3	106	21.3	36.5	21.7	22.5	19.2	13.8	11.7	9.37
MAX	17	30	34	1,810	26	110	26	28	22	19	18	12
MIN	9.2	6.8	7.8	14	18	24	17	19	14	9.4	7.1	5.8
AC-FT	812	756	754	6,520	1,180	2,240	1,290	1,380	1,140	848	720	558
CAL YR 1973	TOTAL	27,172.1	MEAN	74.4	MAX	7,140	MIN	4.5	AC-FT	53,900		
WTR YR 1974	TOTAL	9,178.2	MEAN	25.1	MAX	1,810	MIN	5.8	AC-FT	18,200		

11119500 CARPINTERIA CREEK NEAR CARPINTERIA, CALIF.

LOCATION.--Lat 34°24'05", long 119°29'10", in El Rincon Grant, Santa Barbara County, on right bank at downstream side of bridge on State Highway 150, 235 ft (72 m) downstream from Gobernador Creek, and 1.8 mi (2.9 km) northeast of Carpinteria.

DRAINAGE AREA.--13.1 mi² (33.9 km²).

PERIOD OF RECORD.--January 1941 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 130 ft (40 m), from topographic map. Prior to July 1, 1958, at datum 6.00 ft (1.829 m) higher. July 2, 1958, to Aug. 27, 1970, at site 35 ft (11 m) upstream at datum 4.00 ft (1.219 m) higher.

AVERAGE DISCHARGE.--33 years, 3.02 ft³/s (0.0855 m³/s), 2,190 acre-ft/yr (2.70 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 570 ft³/s (16.1 m³/s) Jan. 7 (gage height, 3.41 ft or 1.039 m); no flow many days.

Period of record: Maximum discharge, 8,880 ft³/s (251 m³/s) Dec. 27, 1971 (gage height, 14.10 ft or 4.298 m, from floodmark), from rating curve extended above 130 ft³/s (3.68 m³/s) on basis of slope-area measurement of maximum flow; no flow at times in each year.

REMARKS.--Records poor. No regulation above station. Gobernador Land and Water Co. diverts from Gobernador Creek 1.8 mi (2.9 km) above station. Small lake 0.8 mi (1.3 km) southeast of station and outside the drainage area stores storm runoff and surplus water diverted by Gobernador Land and Water Co. from Gobernador Creek. At times this lake is drained by pumping water back into Gobernador Creek 1,000 ft (305 m) above station.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	11	.16	2.5	1.0	1.8	.29	.11	.06		0
2	0	.05	1.3	.01	2.3	6.0	2.1	.43	.12	.09		0
3	.02	.07	.60	.05	2.1	8.0	1.4	.47	.13	0		0
4	0	.04	.45	8.1	2.1	5.0	1.4	.40	.22	0		0
5	0	.01	.31	5.8	2.0	2.9	1.3	.45	.15	0		0
6	0	0	.20	24	2.0	3.7	1.2	.42	.08	0		0
7	0	0	.16	372	1.8	5.1	1.2	.38	.21	0		0
8	.16	0	.16	87	1.8	16	1.3	.38	.11	0		0
9	0	.01	.07	22	1.6	6.5	.90	.36	.11	0		0
10	0	0	.04	13	1.6	5.8	1.0	.32	.10	0		.04
11	0	0	.03	10	1.4	4.5	1.0	.31	.10	.02		.01
12	0	.02	.05	8.0	1.6	3.7	1.0	.31	.10	0		0
13	0	.05	.04	6.0	1.6	3.2	.80	.28	.10	0		0
14	0	.01	.05	5.0	1.6	3.2	.70	.26	.02	0		0
15	0	0	.02	4.0	1.4	3.2	.70	.28	0	0		0
16	0	.10	0	4.0	1.4	2.7	.52	.28	0	0		0
17	0	1.8	0	9.0	1.3	2.5	.52	.28	0	0		0
18	0	4.5	0	6.0	1.3	2.5	.52	.28	0	0		0
19	0	1.5	0	5.0	1.3	2.7	.52	.27	0	0		0
20	0	.15	0	4.5	1.3	2.3	.52	.26	0	0		0
21	0	.20	.03	4.5	1.2	2.0	.45	.26	0	0		0
22	0	1.6	.36	3.9	1.1	2.0	.45	.25	0	0		0
23	.61	1.3	.37	3.7	1.0	2.0	.37	.24	0	0		0
24	0	.25	.01	3.4	.90	2.0	.45	.23	0	0		0
25	0	.05	.01	3.2	.90	2.0	.37	.22	0	0		0
26	.04	.10	.02	2.9	.90	2.5	.25	.21	0	0		0
27	0	.04	.16	2.7	.80	4.2	.25	.21	0	0		0
28	0	.02	.04	2.7	.80	2.1	.20	.20	0	0		0
29	0	.03	0	2.7	-----	1.8	.20	.21	0	0		0
30	0	0	0	2.7	-----	2.1	.26	.28	0	0		0
31	0	-----	0	2.5	-----	1.8	-----	.19	-----	0		-----
TOTAL	.83	11.90	15.48	624.52	41.60	115.0	23.65	9.21	1.66	.17	0	.05
MEAN	.027	.40	.50	20.3	1.49	3.71	.79	.30	.055	.006	0	.002
MAX	.61	4.5	11	372	2.5	16	2.1	.47	.22	.09	0	.04
MIN	0	0	0	.01	.80	1.0	.20	.19	0	0	0	0
AC-FT	1.6	24	31	1,250	83	228	47	18	3.3	.3	0	.10

CAL YR 1973 TOTAL 3,215.26 MEAN 8.81 MAX 595 MIN 0 AC-FT 6,380
WTR YR 1974 TOTAL 848.07 MEAN 4.32 MAX 372 MIN 0 AC-FT 1,680

PEAK DISCHARGE (BASE, 125 FT³/S).--Jan. 7 (1230) 570 ft³/s (3.41 ft).

11119530 FRANKLIN CREEK AT CARPINTERIA, CALIF.

LOCATION.--Lat 34°24'15", long 119°31'05", in Pueblo Lands of Santa Barbara, Santa Barbara County, on right bank 300 ft (91 m) downstream from Malibu Drive bridge, 0.5 mi (0.8 km) north of Carpinteria.

DRAINAGE AREA.--1.81 mi² (4.69 km²).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder and concrete channel. Altitude of gage is 30 ft (9 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 119 ft³/s (3.37 m³/s) Jan. 7 (gage height, 2.66 ft or 0.811 m), from rating curve extended above 6 ft³/s (0.17 m³/s) on basis of computation of flow in concrete channel; minimum daily, 0.10 ft³/s (0.003 m³/s) on several days.

Period of record: Maximum discharge, 1,600 ft³/s (45.3 m³/s) Dec. 27, 1971 (gage height, 6.1 ft or 1.86 m, from floodmark), from rating curve extended above 25 ft³/s (0.71 m³/s) on basis of computation of flow in concrete channel; minimum daily, 0.01 ft³/s (<0.001 m³/s) Oct. 1 to Nov. 24, 1970.

REMARKS.--Records poor. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.35	.33	3.4	.19	.30	1.3	.84	.34	.11	.19	.18	.32
2	.34	.39	.20	.10	.26	4.2	.88	.37	.10	.17	.17	.32
3	.34	.42	.19	.11	.25	1.9	.67	.34	.16	.17	.20	.35
4	.32	.45	.18	9.2	.25	.46	.61	.31	.19	.18	.17	.37
5	.41	.46	.16	3.6	.22	.41	.57	.34	.17	.21	.19	.31
6	.41	.50	.16	16	.20	.44	.55	.32	.12	.22	.15	.39
7	.48	.50	.14	70	.21	4.1	.54	.30	.10	.20	.24	.72
8	.43	.64	.18	8.6	.22	1.7	.54	.26	.11	.19	.34	.45
9	.40	.64	.18	1.3	.21	.53	.53	.23	.11	.31	.26	.50
10	.39	.64	.18	.64	.20	.60	.53	.21	.10	.36	.26	.39
11	.39	.64	.18	.50	.19	.56	.52	.19	.10	.13	.16	.45
12	.39	.64	.18	.72	.21	.57	.52	.17	.15	.13	.23	.64
13	.39	.64	.19	.45	.24	.57	.51	.15	.10	.12	.24	.57
14	.39	.64	.19	.45	.24	.53	.51	.13	.10	.12	.23	.39
15	.39	.64	.19	.39	.24	.51	.50	.11	.10	.14	.23	.34
16	.39	.64	.17	.99	.25	.46	.50	.11	.11	.13	.25	.34
17	.34	1.0	.16	2.7	.24	.41	.50	.10	.11	.16	.30	.30
18	.38	2.0	.15	.47	.25	.37	.47	.10	.12	.20	.30	.30
19	.38	.80	.15	.41	.25	.30	.45	.10	.15	.15	.28	.45
20	.44	.39	.15	.63	.25	.26	.45	.10	.17	.21	.32	.45
21	.40	.35	.22	.37	.25	.26	.45	.10	.14	.27	.29	.34
22	.52	2.0	.15	.36	.26	.27	.42	.10	.16	.22	.29	.30
23	.73	.40	.14	.34	.27	.28	.39	.11	.12	.20	.27	.26
24	.34	.35	.14	.33	.26	.26	.39	.12	.12	.22	.30	.26
25	.22	.34	.14	.39	.26	.29	.39	.11	.12	.22	.30	.22
26	.19	.34	.14	.39	.29	.29	.38	.11	.12	.31	.32	.26
27	.19	.30	.16	.37	.27	2.7	.34	.10	.13	.24	.32	.26
28	.19	.26	.14	.33	.32	.71	.34	.10	.18	.17	.30	.26
29	.20	.26	.14	.33	-----	.62	.34	.17	.20	.23	.27	.26
30	.27	.26	.14	.32	-----	.89	.34	.12	.19	.31	.29	.22
31	.29	-----	.16	.30	-----	.85	-----	.17	-----	.20	.35	-----
TOTAL	11.33	17.46	8.39	121.28	6.46	27.60	14.97	5.59	3.96	6.28	8.00	10.99
MEAN	.37	.60	.27	3.91	.25	.89	.50	.18	.13	.20	.26	.37
MAX	.73	2.0	3.4	70	.32	4.2	.88	.37	.20	.36	.35	.72
MIN	.19	.26	.14	.10	.19	.26	.34	.10	.10	.12	.15	.22
AC-FT	22	35	17	241	14	55	30	11	7.9	12	16	22

CAL YR 1973 TOTAL 498.27 MEAN 1.37 MAX 81 MIN .11 AC-FT 988
WTR YR 1974 TOTAL 243.11 MEAN .67 MAX 70 MIN .10 AC-FT 482

PEAK DISCHARGE (BASE, 20 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-22	1715	2.17	31	1-7	0700	2.66	119
12-1	0645	2.20	35	3-2	0030	2.32	29
1-4	0615	2.53	89	3-7	2045	2.32	31
1-5	2145	2.31	52	3-27	0200	2.29	31

11119750 MISSION CREEK NEAR MISSION STREET, AT SANTA BARBARA, CALIF.

LOCATION.--Lat 34°25'35", long 119°43'20", in Pueblo Lands of Santa Barbara, Santa Barbara County, on left bank just south of end of Los Olivos Street in Santa Barbara.

DRAINAGE AREA.--8.38 mi² (21.70 km²).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Concrete-lined channel. Altitude of gage is 105 ft (32 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 519 ft³/s (14.7 m³/s) Jan. 7 (gage height, 2.67 ft or 0.814 m), from rating curve extended as explained below; no flow most of year.Period of record: Maximum discharge, 2,580 ft³/s (73.1 m³/s) Jan. 18, 1973 (gage height, 4.97 ft or 1.515 m), from rating curve extended above 41 ft³/s (1.16 m³/s) on basis of computation of flow in concrete-lined channel; no flow most of each year.REMARKS.--Records good below 41 ft³/s (1.16 m³/s) and fair above. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.05	25	0	0	4.3	.78	0			0	
2	0	0	1.1	0	0	14	.83	.02			.04	
3	.04	0	.14	0	0	13	.19	0			0	
4	0	0	0	21	0	1.8	.08	0			0	
5	0	0	0	16	0	.80	0	0			0	
6	0	0	0	22	0	.56	0	0			0	
7	0	0	0	244	0	4.3	0	0			0	
8	0	0	0	35	0	17	0	0			0	
9	0	0	0	15	0	3.7	0	0			0	
10	0	0	0	6.5	0	2.1	0	0			0	
11	0	0	0	4.7	0	1.6	0	0			0	
12	0	0	0	4.2	0	1.2	0	0			0	
13	0	0	0	2.1	0	.93	0	0			0	
14	0	0	0	1.5	0	.62	0	0			0	
15	0	0	0	1.2	0	.49	0	0			0	
16	0	0	0	3.1	0	.39	0	0			0	
17	0	11	0	8.9	0	.31	0	0			0	
18	0	5.6	0	2.0	0	.22	0	0			0	
19	0	.02	0	1.3	0	.20	0	0			0	
20	0	0	0	1.8	0	.11	0	0			0	
21	0	0	.02	.76	0	5.5	0	0			0	
22	0	2.3	0	.59	0	.12	0	0			0	
23	.14	.27	0	.55	0	0	0	0			0	
24	0	0	0	.44	.80	0	0	0			0	
25	0	0	0	.42	.87	.08	0	0			0	
26	0	0	0	.33	.05	2.2	0	0			0	
27	0	0	0	.25	0	10	0	0			0	
28	0	0	0	.24	.19	.75	0	0			0	
29	0	0	0	.18	-----	.49	0	.01			0	
30	0	0	0	.11	-----	2.8	0	0			0	
31	0	-----	0	0	-----	.45	-----	0	-----		0	-----
TOTAL	.18	19.24	26.26	394.18	1.91	90.02	1.88	.03	0	0	.04	0
MEAN	.005	.64	.85	12.7	.068	2.90	.063	.001	0	0	.001	0
MAX	.14	11	25	244	.87	17	.83	.02	0	0	.04	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	.4	38	52	782	3.8	179	3.7	.06	0	0	.08	0

CAL YR 1973 TOTAL 1,912.16 MEAN 5.24 MAX 468 MIN 0 AC-FT 3,790
WTR YR 1974 TOTAL 533.74 MEAN 1.46 MAX 244 MIN 0 AC-FT 1,060

PEAK DISCHARGE (BASE, 100 FT³/S)
DATE TIME G.H. DISCHARGE DATE TIME G.H. DISCHARGE
12-1 0615 2.15 191 1-7 1015 2.67 519
1-4 1915 2.05 139

11119760 VICTORIA STREET DRAIN AT OUTLET, AT SANTA BARBARA, CALIF.

LOCATION.--Lat 34°25'09", long 119°42'36", in Pueblo Lands of Santa Barbara, Santa Barbara County, on right downstream end of culvert at west end of Victoria Street in Santa Barbara.

DRAINAGE AREA.--0.625 mi² (1.619 km²).

PERIOD OF RECORD.--October 1970 to current year. Prior to October 1972, published as "near Santa Barbara."

GAGE.--Water-stage recorder and culvert control. Datum of gage is 58.69 ft (17.889 m) above mean sea level (Santa Barbara County Flood Control and Water Conservation District bench mark).

EXTREMES.--Current year: Maximum discharge, 129 ft³/s (3.65 m³/s) Jan. 4 (gage height, 3.69 ft or 1.125 m); no flow most of year.

Period of record: Maximum discharge, 155 ft³/s (4.39 m³/s) Feb. 27, 1973 (gage height, 4.01 ft or 1.222 m); no flow most of each year.

Flood of Jan. 25, 1969, reached a stage of 4.26 ft (1.298 m), from floodmark (discharge, 178 ft³/s or 5.04 m³/s).

REMARKS.--Records good. Flow is from street drainage. During periods of heavy rainfall flood gates on the upper end of this watershed could be closed which would reduce the drainage area by 140 acres (567,000 m²).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	4.6	.03	0	2.5	.47	0		0		
2	0	0	0	0	0	3.0	.16	.02		0		
3	.03	0	0	0	0	1.6	0	0		0		
4	0	0	0	10	0	.03	0	0		0		
5	0	0	0	3.1	0	0	0	0		0		
6	0	0	0	4.4	0	0	0	0		0		
7	0	0	0	17	0	3.8	0	0		0		
8	.03	0	0	2.5	0	1.9	0	0		0		
9	0	0	0	.80	0	0	0	.06		0		
10	0	0	0	.13	0	0	0	0		0		
11	0	0	0	.44	0	0	0	0		0		
12	0	.08	0	.81	0	0	0	0		0		
13	0	0	0	0	0	0	0	0		0		
14	0	0	0	0	0	0	0	0		0		
15	0	0	0	0	0	0	0	0		0		
16	0	.30	0	1.0	0	0	0	0		0		
17	0	2.5	0	2.2	0	0	0	0		0		
18	0	.69	0	0	0	0	0	0		0		
19	0	0	0	0	0	0	0	0		0		
20	0	0	0	.39	0	0	0	0		0		
21	0	0	.33	0	0	0	0	.60		0		
22	.48	1.2	0	0	0	0	0	.18		0		
23	1.1	.01	0	0	0	0	0	1.1		0		
24	0	0	0	0	0	0	.05	1.0		0		
25	0	0	0	0	0	.06	0	0		.04		
26	0	0	0	0	0	.65	0	0		0		
27	0	0	.25	0	0	2.4	0	0		0		
28	0	0	0	0	.38	.07	0	0		0		
29	0	0	0	0	-----	0	0	0		0		
30	0	0	0	0	-----	.81	0	0		.04		
31	0	-----	.24	0	-----	0	-----	0	-----	0	-----	
TOTAL	1.64	4.78	5.42	42.80	.38	16.82	.68	2.96	0	.08	0	0
MEAN	.053	.16	.17	1.38	.014	.54	.023	.096	0	.003	0	0
MAX	1.1	2.5	4.6	17	.38	3.8	.47	1.1	0	.04	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	3.3	9.5	11	85	.8	33	1.3	5.9	0	.2	0	0

CAL YR 1973 TOTAL 134.28 MEAN .37 MAX 29 MIN 0 AC-FT 266
 WTR YR 1974 TOTAL 75.56 MEAN .21 MAX 17 MIN 0 AC-FT 150

11119780 ARROYO BURRO CREEK AT SANTA BARBARA, CALIF.

LOCATION.--Lat 34°26'13", long 119°44'44", in Pueblo Lands of Santa Barbara, Santa Barbara County, on right bank 0.4 mi (0.6 km) south of State Street on Hope Avenue in Santa Barbara.

DRAINAGE AREA.--6.65 mi² (17.22 km²).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Concrete-lined channel with a low-water control. Altitude of gage is 160 ft (49 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 299 ft³/s (8.47 m³/s) Jan. 4 (gage height, 2.98 ft or 0.908 m); no flow many days.

Period of record: Maximum discharge, 1,510 ft³/s (42.8 m³/s) Jan. 18, 1973 (gage height, 5.01 ft or 1.527 m); no flow many days in each year.

REMARKS.--Records good below 15 ft³/s (0.42 m³/s) and poor above. Small amount of inflow occurs at times from large shopping center that empties water directly into the stream. Partial regulation by Lauro Canyon Reservoir on San Roque Creek.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	0	.26	.42	.72	8.1	.91	0	.02	0	0	0
2	0	.01	.02	0	.72	10	.38	0	.02	.01	0	0
3	.02	0	.10	.16	.61	6.1	.04	0	0	.01	.01	.01
4	.01	0	0	.38	.16	.08	.04	0	0	0	.01	0
5	.02	.02	.01	11	.02	0	.01	0	0	0	0	0
6	.01	0	0	18	.02	.07	.01	0	.02	0	0	0
7	.01	0	0	135	0	16	.01	0	.05	0	.03	.01
8	.05	.30	0	28	0	4.8	0	.01	.02	0	0	0
9	.01	0	0	5.7	0	.75	.01	0	0	.01	0	.01
10	.02	0	0	3.0	0	.51	.01	0	0	.01	0	.01
11	0	0	0	2.8	0	.40	.01	.02	0	.01	.01	.01
12	0	.31	0	3.0	.01	.28	.02	0	0	0	.01	.01
13	0	.01	0	1.1	.02	.19	.01	0	.42	0	0	.01
14	0	0	0	.83	.01	.15	0	0	.05	.03	0	0
15	0	.01	.02	.72	0	.07	.01	0	0	0	0	0
16	.01	.77	0	3.0	0	.03	0	0	0	0	0	0
17	0	12	.02	6.9	0	.01	.01	0	.01	0	0	.06
18	0	2.0	.02	.85	0	0	0	0	.01	0	0	.01
19	.01	0	0	.72	.09	.01	0	.02	.01	0	0	0
20	0	.01	0	1.5	.01	.05	.01	.05	.01	.01	0	.01
21	.01	0	.61	.51	.01	0	0	.02	0	0	0	0
22	.50	3.3	.04	.42	.03	.01	0	.02	.01	.01	0	.01
23	1.1	.06	0	.42	.04	0	.01	0	0	.01	0	.01
24	.01	0	0	.27	.03	0	.17	.02	.01	.03	.02	0
25	0	.01	0	.21	0	.43	0	0	.05	.02	0	0
26	0	.01	0	.21	0	1.4	0	0	0	0	0	0
27	0	0	.42	.16	0	6.0	.01	.02	.01	0	0	0
28	0	0	.02	.11	.60	.13	.01	0	.01	0	0	0
29	0	.01	.02	.16	-----	.14	.01	.02	0	0	0	0
30	0	0	.05	.27	-----	2.2	.01	0	0	.05	.02	0
31	0	-----	.42	.34	-----	.07	-----	.02	-----	0	.01	-----
TOTAL	1.81	18.83	27.81	263.80	3.10	58.48	1.71	.22	.73	.21	.12	.17
MEAN	.058	.63	.90	8.51	.11	1.89	.057	.007	.024	.007	.004	.006
MAX	1.1	12	26	135	.72	16	.91	.05	.42	.05	.03	.06
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	3.6	37	55	523	6.1	116	3.4	.4	1.4	.4	.2	.3

CAL YR 1973 TOTAL 1,590.56 MEAN 4.36 MAX 270 MIN 0 AC-FT 3,150
 WTR YR 1974 TOTAL 376.99 MEAN 1.03 MAX 135 MIN 0 AC-FT 748

PEAK DISCHARGE (BASE, 300 FT³/S).--No peak above base.

11119940 MARIA YGNACIO CREEK AT UNIVERSITY DRIVE, NEAR GOLETA, CALIF.

LOCATION.--Lat 34°26'42", long 119°48'10", in Goleta Grant, Santa Barbara County, on right bank at University Drive, 0.2 mi (0.3 km) east of Patterson Avenue, and 1.5 mi (2.4 km) northeast of Goleta.

DRAINAGE AREA.--6.35 mi² (16.4 km²).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 60 ft (18 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 340 ft³/s (9.63 m³/s) Jan. 7 (gage height, 2.70 ft or 0.823 m), from high-water marks on right bank; no flow most of year.

Period of record: Maximum discharge, 1,470 ft³/s (41.6 m³/s) Jan. 18, 1973 (gage height, 4.06 ft or 1.237 m), from rating curve extended above 260 ft³/s (7.36 m³/s) on basis of computation of flow in trapezoidal section; no flow most of each year.

REMARKS.--Records good except those for periods of no gage-height record, which are poor. No regulation. Some pumping for irrigation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	5.6	0	.21	1.9	.10				0	
2	0	0	0	0	.15	5.2	.25				0	
3	0	0	0	0	.14	4.1	.10				0	
4	0	0	0	25	.13	.71	.08				0	
5	.01	0	0	8.5	.10	.46	.06				0	
6	0	0	0	9.0	.11	.36	.05				0	
7	0	0	0	120	.09	1.2	.04				0	
8	0	0	0	20	.07	6.0	.04				0	
9	0	0	0	8.0	.13	2.1	.03				0	
10	0	0	0	2.4	.09	.98	.03				0	
11	0	0	0	1.7	.12	.68	.03				0	
12	0	0	0	2.0	.13	.50	.03				0	
13	0	0	0	1.1	.12	.41	.02				0	
14	0	0	0	.90	.10	.36	.02				0	
15	0	0	0	1.2	.07	.39	.02				0	
16	0	.01	0	3.0	.10	.30	.02				.06	
17	0	.96	0	5.0	0	.23	.02				0	
18	0	.96	0	1.0	.06	.28	.02				0	
19	0	0	0	.70	0	.19	.01				0	
20	0	0	0	.50	0	.16	.01				0	
21	0	.35	.03	.70	0	.13	.01				0	
22	0	.57	0	.45	0	.14	.01				0	
23	.01	.09	0	.44	0	.15	.01				0	
24	0	0	0	.40	0	1.4	.01				0	
25	0	0	0	.36	.01	.60	0				0	
26	0	0	0	.35	.08	.20	0				0	
27	0	0	0	.29	0	.11	0				0	
28	0	0	0	.31	.10	.40	0				0	
29	0	0	0	.33	-----	0	0				0	
30	0	0	0	.28	-----	.03	0				0	
31	0	-----	.01	.23	-----	0	-----		-----		0	-----
TOTAL	.02	2.94	5.64	214.14	2.11	29.67	1.02	0	0	0	.06	0
MEAN	.0006	.098	.18	6.91	.075	.96	.034	0	0	0	.002	0
MAX	.01	.96	5.6	120	.21	6.0	.25	0	0	0	.06	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	.04	5.8	11	425	4.2	59	2.0	0	0	0	.1	0

CAL YR 1973 TOTAL 1,334.13 MEAN 3.66 MAX 208 MIN 0 AC-FT 2,650
WTR YR 1974 TOTAL 255.60 MEAN .70 MAX 120 MIN 0 AC-FT 507

PEAK DISCHARGE (BASE, 75 FT³/S).--Jan. 7 (time unknown) 340 ft³/s (2.70 ft).

NOTE.--No gage-height record Jan. 4, 7-9, 14-22, Mar. 8, Mar. 27 to Apr. 24.

ATASCADERO CREEK BASIN

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11120000 ATASCADERO CREEK NEAR GOLETA, CALIF.

LOCATION.--Lat 34°25'30", long 119°48'35", in La Goleta Grant, Santa Barbara County, on downstream side of center pier of county road bridge 100 ft (30 m) downstream from Maria Ygnacio Creek, 1.3 mi (2.1 km) upstream from mouth, and 1.3 mi (2.1 km) southeast of Goleta.

DRAINAGE AREA.--18.9 mi² (49.0 km²).

PERIOD OF RECORD.--October 1941 to current year. Prior to October 1947, published as Alascadero Creek near Goleta.

GAGE.--Water-stage recorder. Datum of gage is 12.59 ft (3.837 m) above mean sea level (Santa Barbara County bench mark). Prior to Dec. 14, 1967, at site 275 ft (84 m) downstream at same datum.

AVERAGE DISCHARGE.--33 years, 4.29 ft³/s (0.121 m³/s), 3,110 acre-ft/yr (3.83 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,140 ft³/s (32.3 m³/s) Jan. 7 (gage height, 8.95 ft or 2.728 m), from rating curve extended above 680 ft³/s (19.3 m³/s) on basis of slope-area measurement of maximum flow at gage height 13.3 ft (4.05 m), from floodmark; no flow many days.

Period of record: Maximum discharge, 5,380 ft³/s (152 m³/s) Jan. 18, 1973 (gage height, 13.1 ft or 3.99 m), from rating curve extended above 2,300 ft³/s (65.1 m³/s); no flow many days in each year.

REMARKS.--Records fair. No regulation above station. Small diversions for irrigation above station. At times low flow results from return irrigation waste water. At other times Lake Cachuma water is wasted to channel.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.71	0	.46	.88	.21	15	2.9	.15	.25	0	.66	0
2	.07	.32	.71	.04	.19	43	12	.28	.14	.03	.04	0
3	.03	0	.17	.36	.17	23	3.7	.84	.23	.10	0	0
4	0	0	.13	146	.32	2.2	2.2	.54	.33	.08	0	0
5	.02	.36	.12	53	.21	1.2	.70	.54	.51	0	0	.04
6	0	.02	.11	78	.12	.96	.42	.55	.57	.02	.05	.25
7	0	.05	.12	546	.13	35	.42	.49	.60	.07	0	.45
8	0	0	.11	74	.12	36	.42	.45	.37	.09	.03	.73
9	.02	0	.09	17	.09	8.2	.30	.63	.15	0	.03	.63
10	.04	0	.08	8.9	.09	5.8	.21	.94	.69	.11	0	.01
11	.02	0	.08	8.6	.13	4.0	.42	.39	.52	.39	0	.70
12	0	.25	.05	17	.09	2.6	.55	.44	.73	0	.15	.14
13	0	.10	.10	4.7	.09	2.0	.30	.54	.56	.26	.13	.13
14	0	.01	.10	3.6	.14	1.4	.30	.47	.48	.05	.04	.20
15	0	0	.09	2.8	.14	1.0	.55	.60	.07	.02	.15	.04
16	0	.45	.08	14	.09	.84	.42	.81	.01	.43	.18	0
17	0	9.8	.08	32	.05	1.2	.30	.31	.21	.39	.04	0
18	0	11	.07	5.8	.05	.47	.21	.02	0	.33	.02	.29
19	0	.38	.05	2.4	.09	.51	.30	0	.08	0	0	.02
20	0	.14	.06	8.8	.02	.47	.30	.07	.16	.01	1.1	.29
21	.01	.32	.34	2.9	.06	1.1	.21	.62	.02	.17	1.2	.21
22	.01	6.1	.96	1.2	.11	1.6	.21	.26	0	.49	.08	.33
23	2.9	1.2	.09	.71	.88	.76	.42	.07	0	.01	.23	.29
24	.42	.25	.06	.55	.12	.27	2.2	.05	0	0	.40	0
25	.10	.13	.06	.50	.11	1.2	.28	.03	0	.15	.11	0
26	.06	.20	.09	.65	.14	8.2	.07	.05	1.3	.27	.07	.16
27	.19	.90	.25	.34	1.1	44	.07	.09	0	.31	0	0
28	0	.08	.28	.58	2.1	5.6	.05	.11	0	.02	.04	.02
29	0	.04	.09	.82	-----	2.7	.06	.40	0	0	.17	0
30	.43	.06	.05	.68	-----	16	.09	.11	0	.01	.12	0
31	.13	-----	.05	.26	-----	2.9	-----	.18	-----	1.3	.06	-----
TOTAL	5.22	32.16	50.72	1,032.82	7.76	269.18	30.58	11.03	7.38	5.11	5.10	4.93
MEAN	.17	1.07	1.64	33.3	.28	8.68	1.02	.36	.25	.16	.16	.16
MAX	2.9	11	46	546	2.1	44	12	.94	1.3	1.3	1.2	.73
MIN	0	0	.05	.06	.05	.27	.05	0	0	0	0	0
AC-FT	10	64	101	2,050	15	534	61	22	15	10	10	9.8

CAL YR 1973 TOTAL 5,125.38 MEAN 14.0 MAX 760 MIN 0 AC-FT 10,170
WTR YR 1974 TOTAL 1,461.99 MEAN 4.01 MAX 546 MIN 0 AC-FT 2,900

DATE	TIME	G.H.	DISCHARGE (BASE, 100 FT ³ /S)	DATE	TIME	G.H.	DISCHARGE
12-1	0615	6.48	340	3-2	0315	5.15	131
1-4	0430	8.64	1,040	3-7	2100	5.55	194
1-7	1245	8.95	1,140	3-27	0230	5.61	205

11120500 SAN JOSE CREEK NEAR GOLETA, CALIF.

LOCATION.--Lat 34°27'33", long 119°48'29", in La Goleta Grant, Santa Barbara County, on right bank at Patterson Avenue bridge, 1.1 mi (1.8 km) downstream from unnamed tributary, and 1.7 mi (2.7 km) northeast of Goleta.

DRAINAGE AREA.--5.51 mi² (14.3 km²).

PERIOD OF RECORD.--January 1941 to current year.

GAGE.--Water-stage recorder and concrete low-water control. Datum of gage is 95.61 ft (29.142 m) above mean sea level (Santa Barbara County Road Department bench mark). Prior to Dec. 24, 1955, at datum 5.50 ft (1.676 m) higher. Dec. 24, 1955, to Jan. 10, 1960, at datum 1.5 ft (0.46 m) higher. Prior to Oct. 1, 1971, at site 75 ft (23 m) downstream at same datum.

AVERAGE DISCHARGE.--33 years, 1.84 ft³/s (0.0521 m³/s), 1,330 acre-ft/yr (1.64 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 243 ft³/s (6.88 m³/s) Jan. 6 (gage height, 4.91 ft or 1.497 m), from rating curve extended above 23 ft³/s (0.65 m³/s) on basis of maximum discharge at old gage site 75 ft (23 m) downstream; no flow Oct. 18-21.

Period of record: Maximum discharge, 2,000 ft³/s (56.6 m³/s) Jan. 25, 1969 (gage height, 10.10 ft or 3.078 m), from rating curve extended above 400 ft³/s (11.3 m³/s) on basis of slope-area measurement at gage height 9.32 ft (2.841 m); maximum gage height, 12.74 ft (3.883 m), present datum, Jan. 21, 1943; no flow at times in each year.

REMARKS.--Records fair. No regulation above station. Many small diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.07	.03	14	.33	.73	.69	1.7	.54	.46	.46	.09	.13
2	.06	.03	1.2	.24	.73	11	3.3	.54	.46	.43	.09	.22
3	.06	.03	.41	.22	.73	6.6	2.3	.54	.46	.46	.22	.18
4	.06	.18	.24	9.9	.63	2.6	1.9	.46	.46	.39	.18	.13
5	.06	.13	.18	9.9	.73	1.8	1.3	.46	.46	.39	.13	.13
6	.06	.04	.16	35	.63	1.6	1.2	.46	.54	.33	.03	.13
7	.02	.13	.13	103	.63	5.5	.94	.54	.54	.22	.06	.06
8	.06	.09	.13	23	.63	16	.94	.46	.54	.27	.03	.03
9	.06	.13	.13	7.0	.63	4.8	.97	.46	.54	.27	.06	.06
10	.03	.18	.13	4.7	.63	3.0	.87	.46	.54	.27	.09	.09
11	.03	.18	.13	3.2	.63	1.4	.94	.39	.46	.27	.06	.09
12	.04	.18	.13	3.0	.63	2.5	.94	.33	.46	.33	.09	.09
13	.07	.18	.13	2.2	.63	2.5	.94	.33	.46	.33	.13	.09
14	.08	.33	.13	2.0	.63	2.0	.87	.22	.39	.33	.13	.13
15	.13	.33	.13	1.9	.63	1.7	.72	.18	.33	.33	.13	.13
16	.03	.33	.18	2.0	.63	1.4	.70	.09	.27	.33	.09	.13
17	.09	2.8	.18	3.4	.63	1.5	.63	.09	.27	.27	.09	.13
18	0	6.8	.18	2.6	.63	1.5	.70	.27	.39	.27	.13	.13
19	0	.33	.18	1.8	.63	1.5	.63	.33	.39	.27	.09	.13
20	0	.13	.33	1.6	.63	1.4	.62	.27	.39	.22	.18	.13
21	0	.13	.22	1.7	.54	1.3	.42	.22	.39	.22	.18	.13
22	.02	.27	.22	1.5	.54	1.2	.94	.22	.39	.18	.27	.13
23	.16	.33	.22	1.3	.54	1.2	.94	.22	.46	.18	.27	.13
24	.14	.13	.27	1.2	.54	1.1	.94	.27	.39	.18	.39	.13
25	.18	.13	.27	1.1	.54	1.0	.90	.33	.39	.09	.33	.13
26	.18	.13	.27	1.1	.54	.94	.72	.33	.39	.09	.27	.27
27	.09	.13	.27	1.1	.54	4.8	.74	.27	.39	.09	.22	.22
28	.06	.13	.27	1.0	.54	2.9	.67	.30	.33	.09	.13	.18
29	.13	.13	.27	.92	-----	2.3	.53	.33	.33	.09	.18	.13
30	.06	.13	.27	.72	-----	2.2	.54	.33	.39	.09	.27	.13
31	.03	-----	.33	.72	-----	2.2	-----	.46	-----	.09	.18	-----
TOTAL	2.10	14.25	25.29	229.64	17.32	46.63	31.05	10.70	12.66	7.83	4.79	3.92
MEAN	.064	.48	.82	7.41	.62	3.12	1.04	.35	.42	.25	.15	.13
MAX	.14	5.8	18	103	.73	16	3.3	.54	.54	.46	.39	.27
MIN	0	.03	.13	.22	.54	.69	.53	.09	.27	.09	.03	.03
AC-FT	4.2	28	50	455	34	192	62	21	25	16	9.5	7.8

CAL YR 1973 TOTAL 1.462.41 MEAN 4.01 MAX 215 MIN 0 AC-FT 2,900
 WTR YR 1974 TOTAL 456.14 MEAN 1.25 MAX 103 MIN 0 AC-FT 905

PEAK DISCHARGE (BASE, 100 FT³/S).--Dec. 1 (0730) 120 ft³/s (4.18 ft); Jan. 6 (2345) 243 ft³/s (4.91 ft).

11120510 SAN JOSE CREEK AT GOLETA, CALIF.

LOCATION.--Lat 34°25'49", long 119°49'16", in La Goleta Grant, Santa Barbara County, on right bank south of Hollister Avenue and Kellogg Road, 0.5 mi (0.8 km) southeast of Goleta.

DRAINAGE AREA.--9.42 mi² (24.40 km²).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 10 ft (3 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 542 ft³/s (15.3 m³/s) Jan. 4 (gage height, 3.02 ft or 0.920 m); no flow for many days.

Period of record: Maximum discharge, 1,660 ft³/s (47.0 m³/s) Jan. 18, 1973 (gage height, 5.21 ft or 1.588 m), from rating curve extended above 400 ft³/s (11.3 m³/s) on basis of computation of flow in concrete canal at gage height 8.00 ft (2.438 m); no flow for long periods in each year.

REMARKS.--Records good. No regulation above station. Diversions for irrigation and domestic use above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.01	21	.37	.78	9.3	1.1	.07	0	.09		0
2	0	.01	2.3	.11	.79	24	1.4	.07	.01	.05		0
3	0	0	1.4	.19	.61	16	.83	.10	.03	0		0
4	.01	0	.83	.41	.59	5.4	.61	.10	.10	0		0
5	.08	0	.72	19	.61	3.7	.61	.14	.29	0		0
6	0	0	.51	.51	.50	3.4	.51	.19	.34	0		0
7	0	0	.51	170	.45	10	.44	.25	.32	0		.01
8	.04	0	.37	32	.41	19	.44	.22	.12	0		0
9	0	0	.37	12	.45	9.0	.37	.22	.08	0		0
10	0	0	.31	4.9	.38	5.2	.37	.20	.08	0		.01
11	0	0	.31	3.7	.38	3.0	.37	.10	.03	0		0
12	0	0	.37	4.1	.44	2.8	.37	.10	0	0		0
13	0	0	.31	2.3	.51	2.3	.31	.10	0	0		0
14	0	0	.25	1.8	.48	2.5	.25	.04	0	0		0
15	0	0	.31	1.8	.50	2.5	.25	.05	.01	0		0
16	.05	0	.31	4.5	.45	1.4	.25	.01	.01	0		0
17	.02	5.2	.25	9.5	.38	1.2	.14	0	.02	0		0
18	.05	10	.14	2.0	.40	1.6	.19	0	.02	0		0
19	.03	1.1	.19	1.6	.45	.95	.14	0	.03	0		0
20	0	.51	.37	2.3	.41	.95	.14	0	.03	0		0
21	0	.37	.44	1.6	.40	.83	.14	.01	.03	0		0
22	0	3.7	.44	1.6	.34	.83	.14	0	.04	0		0
23	.01	.95	.19	2.0	.41	.72	.14	0	.04	0		0
24	0	.61	.14	1.8	.25	.61	.25	0	.03	0		0
25	0	.31	.14	2.3	.26	.83	.14	0	.03	0		0
26	0	.25	.14	1.2	.25	1.9	.10	0	.04	0		0
27	.01	.14	.25	1.2	.25	16	.14	0	.07	0		0
28	0	.37	.31	1.0	.37	.83	.07	.01	.08	0		0
29	.01	.70	.25	1.0	-----	.72	.07	0	.07	0		0
30	.01	.14	.14	.85	-----	2.5	.07	0	.07	0		0
31	.01	-----	.10	.86	-----	.83	-----	0	-----	0		-----
TOTAL	.33	24.37	33.67	379.59	12.50	150.40	10.35	1.98	2.02	.14	0	.02
MEAN	.011	.81	1.09	12.2	.45	4.86	.35	.064	.067	.005	0	.0007
MAX	.08	10	21	170	.79	24	1.4	.25	.34	.09	0	.01
MIN	0	0	.10	.11	.25	.61	.07	0	0	0	0	0
AC-FT	.7	.48	.67	753	.25	299	.21	3.9	4.0	.3	0	.04

CAL YR 1973 TOTAL 2,238.98 MEAN 6.13 MAX 366 MIN 0 AC-FT 4.440
 WTR YR 1974 TOTAL 615.76 MEAN 1.69 MAX 170 MIN 0 AC-FT 1,220

PEAK DISCHARGE (BASE, 150 FT³/S).--Jan. 4 (0400) 542 ft³/s (3.02 ft); Jan. 6 (2300) 446 ft³/s (2.86 ft).

GAVIOTA CREEK BASIN

11120550 GAVIOTA CREEK NEAR GAVIOTA, CALIF.

LOCATION.--Lat 34°29'16", long 120°13'34", in Nuestra Senora Del Refugio Grant, Santa Barbara County, on left bank 1.3 mi (2.1 km) northwest of Gaviota, and 1.6 mi (2.6 km) upstream from mouth.

DRAINAGE AREA.--18.8 mi² (48.7 km²).

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 100 ft (30 m), from topog: c map.

AVERAGE DISCHARGE.--8 years, 4.93 ft³/s (0.140 m³/s), 3,570 acre-ft/yr (4.40 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,110 ft³/s (31.4 m³/s) Jan. 7 (gage height, 6.30 ft or 1.920 m), from rating curve extended as explained below; minimum daily, 0.17 ft³/s (0.005 m³/s) Sept. 22, 23.

Period of record: Maximum discharge, 4,000 ft³/s (113 m³/s) Jan. 24, 1967 (gage height, 8.40 ft or 2.560 m), from rating curve extended above 1,300 ft³/s (36.8 m³/s) on basis of slope-area measurement of maximum flow; no flow at times in some years.

REMARKS.--Records good. No regulation. Small pumping for domestic and resort use.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.29	.32	10	.96	7.3	14	3.4	1.3	.99	.76	.44	.30
2	.28	.34	.96	.65	7.0	6.7	8.6	1.3	.99	.78	.44	.30
3	.28	.35	.56	1.2	6.5	4.1	3.6	1.3	1.0	.73	.48	.30
4	.25	.34	.56	41	6.3	3.2	3.0	1.2	1.0	.69	.47	.25
5	.27	.38	.49	4.8	5.8	3.0	2.6	1.3	.96	.68	.42	.23
6	.30	.39	.49	49	5.5	2.9	2.6	1.4	.95	.66	.40	.23
7	.33	.40	.41	418	5.1	31	2.3	1.4	.94	.65	.39	.23
8	.36	.42	.35	43	5.2	19	2.3	1.3	.92	.66	.38	.23
9	.30	.44	.35	28	4.8	7.1	2.3	1.3	.88	.66	.43	.22
10	.26	.47	.35	19	4.8	5.6	2.2	1.2	.87	.64	.45	.23
11	.26	.45	.35	10	4.5	4.7	2.1	1.2	.87	.59	.44	.25
12	.27	.52	.41	10	4.5	4.1	2.0	1.2	.88	.59	.44	.30
13	.24	.38	.41	8.3	4.2	3.8	1.9	1.1	.86	.58	.44	.28
14	.28	.38	.41	7.8	3.9	3.5	1.9	1.2	.82	.58	.44	.24
15	.29	.37	.41	7.6	3.9	3.3	1.8	1.2	.81	.56	.44	.22
16	.29	.54	.35	9.6	3.6	3.2	1.8	1.1	.81	.52	.40	.22
17	.29	3.1	.41	12	3.5	2.9	1.8	1.1	.81	.50	.41	.19
18	.27	1.3	.41	8.7	3.3	2.8	1.7	1.1	.82	.48	.39	.19
19	.26	.42	.41	8.2	3.4	2.9	1.7	1.1	.81	.47	.37	.19
20	.24	.35	.35	8.7	2.9	2.8	1.6	1.1	.76	.48	.33	.19
21	.34	.35	.56	7.9	2.8	2.6	1.5	1.1	.75	.46	.38	.18
22	.50	1.1	.85	7.8	2.6	2.6	1.5	1.0	.72	.47	.42	.17
23	1.2	1.0	.41	8.3	2.5	2.4	1.7	1.0	.71	.47	.39	.17
24	.36	.78	.41	7.8	2.2	2.3	1.7	1.0	.69	.45	.39	.19
25	.29	.58	.35	8.2	2.2	2.4	1.5	.99	.67	.45	.39	.23
26	.32	.58	.35	8.4	2.3	3.6	1.4	.95	.66	.46	.34	.23
27	.31	.48	1.2	8.1	2.3	9.2	1.4	.97	.63	.45	.32	.23
28	.28	.38	.85	8.5	2.9	3.2	1.3	1.1	.63	.45	.30	.23
29	.28	.33	.49	8.4	-----	2.8	1.3	1.0	.63	.45	.30	.23
30	.28	.35	.41	7.8	-----	5.0	1.3	.99	.69	.45	.30	.22
31	.29	-----	.41	7.7	-----	2.9	-----	.99	-----	.46	.30	-----
TOTAL	10.10	17.59	24.73	785.41	115.8	169.6	65.8	35.49	24.53	17.28	12.23	6.87
MEAN	.33	.59	.80	25.3	4.14	5.47	2.19	1.14	.82	.56	.39	.23
MAX	1.2	3.1	10	418	7.3	31	8.6	1.4	1.0	.78	.48	.30
MIN	.24	.32	.35	.65	2.2	2.3	1.3	.95	.63	.45	.30	.17
AC-FT	20	35	49	1,560	230	336	131	70	49	34	24	14

CAL YR 1973 TOTAL 4,163.80 MEAN 11.4 MAX 675 MIN .18 AC-FT 8,260
 WTR YR 1974 TOTAL 1,285.43 MEAN 3.52 MAX 418 MIN .17 AC-FT 2,550

DATE	TIME	PEAK DISCHARGE (BASE, 100 FT ³ /S)	DATE	TIME	DISCHARGE
1-4	0315	4.73	3-7	1930	3.85
1-7	1445	6.30			208
		1,110			

11120600 JALAMA CREEK NEAR LOMPOC, CALIF.

LOCATION.--Lat 34°30'50", long 120°29'02", in San Julian Grant, Santa Barbara County, on downstream side of right bridge pier on Jalama Road, 0.6 mi (1.0 km) downstream from Gasper Creek, 1.4 mi (2.3 km) upstream from mouth, and 8.9 mi (14.3 km) southwest of Lompoc.

DRAINAGE AREA.--20.5 mi² (53.1 km²).

PERIOD OF RECORD.--September 1965 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 80 ft (24 m), from topographic map.

AVERAGE DISCHARGE.--9 years, 3.01 ft³/s (0.0852 m³/s), 2,120 acre-ft/yr (2.61 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 522 ft³/s (14.8 m³/s) Jan. 7 (gage height, 5.94 ft or 1.811 m); no flow Nov. 1, Aug. 1, 2, 7, 8.

Period of record: Maximum discharge, 3,530 ft³/s (100 m³/s) Jan. 18, 1973 (gage height, 9.97 ft or 3.039 m), from rating curve extended above 1,700 ft³/s (48.1 m³/s) on basis of slope-area measurement at gage height 8.05 ft (2.454 m); no flow many days in most years.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. No regulation or diversion above station. Pumping from wells for irrigation of about 400 acres (1.62 km²).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT
1	.06	0	2.8	.64	1.2	2.2	9.2	1.1	.67	.17	0	.07
2	.07	.01	.78	.64	1.2	35	33	1.0	.66	.26	0	.07
3	.05	.03	.36	.65	1.2	6.9	7.9	1.0	.65	.28	.01	.07
4	.05	.04	.35	12	1.1	3.6	5.1	1.0	.64	.22	.01	.07
5	.07	.06	.36	2.0	1.1	2.6	3.9	1.0	.49	.15	.01	.07
6	.08	.07	.37	12	1.0	2.2	3.3	.98	.41	.13	.01	.08
7	.13	.31	.38	233	.99	16	2.8	.98	.42	.11	0	.08
8	.25	.31	.39	30	.99	19	2.5	.96	.42	.12	0	.06
9	.22	.31	.40	8.0	1.0	6.1	2.4	.96	.40	.11	.01	.05
10	.14	.37	.42	5.0	1.1	4.1	2.3	.94	.32	.11	.01	.04
11	.10	.60	.43	3.4	.99	3.4	2.2	.94	.28	.08	.01	.08
12	.08	.44	.45	3.2	1.1	2.9	2.1	.94	.37	.04	.02	.09
13	.06	.37	.46	2.3	1.1	2.6	2.0	.92	.35	.04	.02	.08
14	.06	.31	.47	1.9	.88	2.4	1.9	.90	.34	.04	.03	.05
15	.07	.26	.49	1.6	.88	2.2	1.8	.90	.31	.03	.03	.04
16	.07	.37	.50	2.8	.88	2.0	1.7	.90	.24	.03	.03	.04
17	.07	.78	.51	7.4	.87	1.9	1.6	.90	.26	.02	.02	.04
18	.08	1.4	.52	4.0	.84	1.9	1.5	.90	.32	.01	.02	.04
19	.06	.52	.53	2.5	1.0	1.9	1.5	.88	.35	.01	.02	.04
20	.13	.31	.54	2.2	.94	1.8	1.4	.86	.25	.02	.03	.03
21	.12	.31	.55	2.0	.84	1.7	1.4	.84	.21	.01	.04	.03
22	.17	.44	.55	1.9	.83	1.7	1.3	.82	.20	.01	.05	.03
23	.28	.88	.56	1.8	.81	1.7	1.3	.80	.17	.01	.06	.02
24	.04	.44	.57	1.7	.82	1.6	1.6	.80	.17	.01	.06	.03
25	.06	.31	.58	1.6	.82	1.7	1.3	.79	.15	.01	.06	.04
26	.09	.26	.54	1.5	.84	2.1	1.2	.78	.13	.01	.06	.04
27	.06	.31	.60	1.5	.87	8.0	1.1	.76	.08	.01	.06	.04
28	.04	.26	.61	1.4	.98	3.8	1.1	.74	.09	.01	.07	.05
29	.03	.26	.61	1.4	-----	3.0	1.1	.72	.10	.01	.07	.05
30	.03	.26	.62	1.3	-----	9.3	1.1	.70	.13	.01	.08	.05
31	.02	-----	.63	1.3	-----	4.8	-----	.60	-----	.01	.07	-----
TOTAL	2.84	10.60	17.98	352.63	27.17	160.1	102.6	27.31	9.58	2.09	.97	1.57
MEAN	.092	.35	.58	11.4	.97	5.16	3.42	.88	.32	.067	.031	.052
MAX	.28	1.4	2.8	233	1.2	35	33	1.1	.67	.28	.08	.09
MIN	.02	0	.35	.64	.81	1.6	1.1	.60	.08	.01	0	.02
AC-FT	5.6	21	36	694	54	318	204	54	19	4.1	1.9	3.1

CAL YR 1973 TOTAL 2,644.61 MEAN 7.25 MAX 585 MIN 0 AC-FT 5,250
WTR YR 1974 TOTAL 715.44 MEAN 1.96 MAX 233 MIN 0 AC-FT 1,420

PEAK DISCHARGE (BASE, 150 FT³/S).--Jan. 7 (1445) 522 ft³/s (5.94 ft).

NOTE.--No gage-height record Dec. 3 to Jan. 3, Jan. 8-10, 18-30, Apr. 9-29, May 1-30.

11121000 SANTA YNEZ RIVER AT JAMESON LAKE, NEAR MONTECITO, CALIF.

LOCATION.--Lat 34°29'32", long 119°30'25", in SW¼NE¼NW¼ sec.28, T.5 N., R.25 W., Santa Barbara County, on upstream face of Juncal Dam, 6.5 mi (10.5 km) north of Carpinteria, and 8 mi (13 km) northeast of Montecito.

DRAINAGE AREA.--13.9 mi² (36.0 km²), excludes Alder Creek.

PERIOD OF RECORD.--December 1930 to current year. Prior to October 1938, published as "at Juncal Reservoir, near Montecito."

GAGE.--Water-stage recorder on lake; water-stage recorder and sharp-crested weir on outlet conduit. Datum of gage is 2,021.6 ft (616.18 m) above mean sea level (Bureau of Reclamation bench mark), or 2,000 ft (609.6 m) above arbitrary datum (called sea level) generally used for works in this vicinity.

AVERAGE DISCHARGE.--43 years (1931-74), 6.50 ft³/s (0.184 m³/s), 4,710 acre-ft/yr (5.81 hm³/yr).

REMARKS.--Records of total inflow represent all water reaching Jameson Lake including precipitation on the lake. Total inflow computed on basis of records of storage, diversion (draft) to the city of Montecito, spill and release to river, and evaporation. Records of net inflow exclude precipitation on lake surface. Monthly evaporation from lake surface computed on basis of evaporation from Colorado land pan using coefficient of 0.80. Area table is based on survey made in 1961. Capacity table is based on survey made in 1969. Lake capacity at spillway level (gage height, 223.82 ft or 68.220 m), 6,119 acre-ft (7.54 hm³). Dead storage, 18 acre-ft (22,200 m³), below lowest outlet at gage height 139.0 ft (42.37 m) included in these records. There is no regulation or diversion above station. At times flow of Alder Creek, which enters Santa Ynez River 2 mi (3 km) downstream from Juncal Dam, is diverted at elevation, 2,250 ft (686 m) through a tunnel to Jameson Lake and is included in these records.

COOPERATION.--Reservoir-operation records and related data furnished by Montecito County Water District.

MONTHLY NET DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Gage height (feet) ^a	Contents (acre-feet)	Change in contents (acre-feet)	Draft (acre-feet)	Spill and release (acre-feet)	Evaporation (acre-feet)	Total inflow (acre-feet)	Rain on reservoir (acre-feet)	Net inflow (acre-feet)
JAMESON LAKE									
Sept. 30.....	218.97	5,475	--	--	--	--	--	--	--
Oct. 31.....	218.17	5,370	-105	69	0	19	-17	10	-27
Nov. 30.....	218.18	5,370	0	40	0	9	49	36	13
Dec. 31.....	218.48	5,410	+40	36	0	6	82	34	48
CAL YR 1973.....	--	--	+1,935	1,045	10,857	358	14,195	448	13,747
Jan. 31.....	223.96	6,140	+730	22	1,700	4	2,456	162	2,294
Feb. 28.....	223.78	6,110	-30	105	182	15	272	0	272
Mar. 31.....	224.85	6,260	+150	74	157	15	396	76	320
Apr. 30.....	224.50	6,210	-50	163	11	38	162	6	156
May 31.....	223.60	6,090	-120	150	0	41	71	0	71
June 30.....	222.60	5,950	-140	110	0	56	26	0	26
July 31.....	221.09	5,750	-200	129	0	59	-12	0	-12
Aug. 31.....	219.52	5,550	-200	109	0	59	-32	0	-32
Sept. 30.....	218.33	5,390	-160	73	0	44	-43	0	-43
WTR YR 1974.....	--	--	-85	1,080	2,050	365	3,410	324	3,086

^a Gage height at 1800.

NOTE.--For months when inflow to the lake was small and other quantities were large, discordant figures of net inflow may appear. This arises primarily from the difficulty of computing net inflow as the residual of several larger quantities, which are not susceptible to measurement with a precision necessary to produce a final answer within desirable limits of accuracy.

11122000 SANTA YNEZ RIVER ABOVE GIBRALTAR DAM, NEAR SANTA BARBARA, CALIF.

LOCATION.--Lat 34°31'34", long 119°41'08", in SW¼NW¼SW¼ sec.11, T.5 N., R.27 W., Santa Barbara County, on upstream face of Gibraltar Dam, 7 mi (11 km) north of Santa Barbara.

DRAINAGE AREA.--216 mi² (559 km²).

PERIOD OF RECORD.--April 1920 to current year. November 1903 to November 1918 (fragmentary) at river station at damsite; records not equivalent because records since April 1920 are based on operation of Gibraltar Reservoir, and since December 1930, Jameson Lake. Prior to October 1945, published as "near Santa Barbara."

GAGE.--Water-stage recorder on reservoir; water-stage recorder and sharp-crested weir on diversion. Spill and release measured at river gaging station below dam (see sta 11123000). Datum of gage is at mean sea level. See WSP 1735 for history of changes prior to Oct. 1, 1955.

REMARKS.--Records of total inflow represent all water reaching Gibraltar Reservoir, including precipitation on reservoir. Total inflow computed on basis of records of storage diversion (draft) to city of Santa Barbara, spill and release to river, and evaporation. Records of net inflow exclude precipitation on reservoir surface. Monthly evaporation from reservoir surface computed on basis of evaporation from Colorado land pan using coefficient of 0.80. Area and capacity tables are based on survey made in October 1973. Reservoir capacity at spillway level (elevation, 1,399.82 ft or 426.665 m), 9,300 acre-ft (11.5 hm³). Flashboards were used during current year. Silt level of reservoir at elevation 1,344 ft (410 m). Lowest outlet at elevation 1,333.86 ft (406.561 m). Flow regulated by Jameson Lake since December 1930 (see sta 11121000).

COOPERATION.--Reservoir-operation records and related data furnished by city of Santa Barbara.

MONTHLY NET INFLOW, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet) ^a	Contents (acre- feet)	Change in contents (acre- feet)	Draft (acre- feet)	Spill and release (acre- feet)	Evapo- ration (acre- feet)	Total inflow (acre- feet)	Rain on reservoir (acre- feet)	Net inflow (acre- feet)
GIBRALTAR RESERVOIR									
Sept. 30.....	1,389.41	6,720	--	--	--	--	--	--	--
Oct. 31.....	1,386.20	6,010	-710	735	0	76	101	13	88
Nov. 30.....	1,384.15	5,590	-420	612	0	36	228	57	171
Dec. 31.....	1,384.19	5,600	+10	536	0	24	570	49	521
CAL YR 1973.....	--	--	+2,415	7,186	69,746	934	80,281	713	79,568
Jan. 31.....	1,399.96	9,340	+3,740	178	9,360	20	13,298	250	13,048
Feb. 28.....	1,400.62	9,520	+180	493	1,160	60	1,893	0	1,893
Mar. 31.....	1,401.12	9,670	+150	529	5,920	40	6,639	124	6,515
Apr. 30.....	1,401.15	9,680	+10	735	1,180	106	2,031	20	2,011
May 31.....	1,400.28	9,430	-250	772	112	127	761	0	761
June 30.....	1,397.63	8,710	-720	764	116	153	313	0	313
July 31.....	1,393.48	7,670	-1,040	813	298	155	226	0	226
Aug. 31.....	1,389.38	6,710	-960	734	176	132	82	0	82
Sept. 30.....	1,386.01	5,970	-740	696	8	116	80	0	80
WTR YR 1974.....	--	--	-750	7,597	18,330	1,045	26,222	513	25,709

^a Elevation at 1800.

NOTE.--For months when inflow to the reservoir was small and other quantities were large, discordant figures of net inflow may appear. This arises primarily from the difficulty of computing net inflow as the residual of several larger quantities, which are not susceptible to measurement with a precision necessary to produce a final answer within desirable limits of accuracy.

SANTA YNEZ RIVER BASIN

11123000 SANTA YNEZ RIVER BELOW GIBRALTAR DAM, NEAR SANTA BARBARA, CALIF.

LOCATION.--Lat 34°31'28", long 119°41'11", in NW¼SW¼SW¼ sec.11, T.5 N., R.27 W., Santa Barbara County, on left bank 700 ft (213 m) downstream from Gibraltar Dam, and 7 mi (11 km) north of Santa Barbara.

DRAINAGE AREA.--216 mi² (559 km²).

PERIOD OF RECORD.--April 1920 to current year (monthly discharge only prior to October 1941).

GAGE.--Water-stage recorder on main channel; water-stage recorder and combination sharp-crested weir on "release to river" gage. Datum of gage is 1,227 ft (374 m) above mean sea level. See WSP 1735 for history of changes prior to May 20, 1958.

EXTREMES.--Current year: Maximum discharge, 2,790 ft³/s (79.0 m³/s) Jan. 9 (gage height, 11.49 ft or 3.502 m); no flow many days.

Period of record: Maximum discharge, 54,200 ft³/s (1,530 m³/s) Jan. 25, 1969 (gage height, 25.8 ft or 7.86 m), from rating curve extended above 2,100 ft³/s (59.5 m³/s) on basis of computations of flow from gate openings and flow over dam at gage heights 17.5 ft (5.33 m) and 25.8 ft (7.86 m); no flow at times in most years.

REMARKS.--Records good. Flow regulated by Jameson Lake (see sta 11121000) and Gibraltar Reservoir (see sta 11122000). City of Santa Barbara diverted 7,600 acre-ft (9.37 hm³) during current year from Gibraltar Reservoir; Montecito County Water District diverted 1,080 acre-ft (1.33 hm³) during current year from Jameson Lake.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	47	31	49	7.1	.15	5.8	4.4	1.1
2				0	46	262	47	5.5	.18	5.8	4.1	1.1
3				0	41	303	42	5.1	.18	5.8	3.9	1.1
4				1.0	43	108	12	5.1	.15	5.8	3.9	.60
5				.54	32	14	18	5.5	.12	5.6	3.7	.01
6				2.3	23	80	22	5.1	.10	5.5	3.6	0
7				13	31	149	23	4.5	.08	5.5	3.6	0
8			1.180	33	389	25	3.9	.06	.06	5.5	3.6	0
9			345	30	203	26	3.4	.05	.05	5.5	3.3	0
10			177	29	152	28	2.5	.04	.04	5.5	2.9	0
11			119	30	149	25	1.9	.04	.04	5.1	2.9	0
12			133	28	146	25	1.5	.05	.05	5.0	2.9	0
13			163	29	75	21	.98	.05	.05	5.0	2.9	0
14			121	31	32	20	.61	.06	.06	5.0	2.9	0
15			159	12	63	18	.40	.05	.05	5.0	2.9	0
16			154	5.2	81	17	.30	.05	.05	5.0	3.2	0
17			344	10	79	16	.30	.05	.05	5.0	3.4	0
18			352	15	77	14	.30	.05	.05	4.4	3.4	0
19			287	17	36	14	.30	.05	.05	4.2	3.4	0
20			260	18	3.4	14	.29	.29	3.1	4.0	3.4	0
21			236	13	22	13	.27	.27	5.0	3.9	3.4	0
22			199	.04	41	14	.26	.26	5.0	3.9	3.4	0
23			95	.01	43	14	.18	.18	5.0	3.9	2.5	0
24			.05	.01	41	14	.18	.18	5.0	3.9	1.6	0
25			17	19	39	13	.18	.18	5.0	4.3	1.5	0
26			67	.41	41	12	.15	.15	5.6	4.4	1.5	0
27			62	.35	88	13	.15	.15	5.8	4.4	1.5	0
28			63	.39	112	11	.15	.15	5.8	4.4	1.5	0
29			63	-----	21	9.3	.12	.12	5.8	4.4	1.2	0
30			55	-----	43	8.1	.15	.15	5.8	4.4	1.1	0
31		-----	50	-----	59	-----	.15	.15	-----	4.4	1.1	-----
TOTAL	0	0	0	4,717.89	583.41	2,982.4	597.4	56.52	58.46	150.3	88.6	3.91
MEAN	0	0	0	152	20.8	96.2	19.9	1.82	1.95	4.85	2.86	.13
MAX	0	0	0	1,180	47	389	49	7.1	5.8	5.8	4.4	1.1
MIN	0	0	0	0	.01	3.4	8.1	.12	.04	3.9	1.1	0
AC-FT	0	0	0	9,360	1,160	5,920	1,180	112	116	298	176	7.8
CAL YR 1973	TOTAL	35,165.96	MEAN	96.3	MAX	7,570	MIN	0	AC-FT	69,750		
WTR YR 1974	TOTAL	9,238.89	MEAN	25.3	MAX	1,180	MIN	0	AC-FT	18,330		

11123500 SANTA YNEZ RIVER BELOW LOS LAURELES CANYON, NEAR SANTA YNEZ, CALIF.

LOCATION.--Lat 34°32'37", long 119°51'50", in San Marcos Grant, Santa Barbara County, on left bank 0.3 mi (0.5 km) downstream from Los Laureles Canyon Creek, and 13.3 mi (21.4 km) east of Santa Ynez.

DRAINAGE AREA.--277 mi² (717 km²).

PERIOD OF RECORD.--April 1947 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 787.8 ft (240.12 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 2,340 ft³/s (66.3 m³/s) Jan. 8 (gage height, 7.70 ft or 2.347 m); no flow for several months.

Period of record: Maximum discharge, 67,500 ft³/s (1,910 m³/s) Jan. 25, 1969 (gage height, 18.88 ft or 5.755 m), from rating curve extended above 11,600 ft³/s (329 m³/s) on basis of maximum flow for station below Gibraltar Dam plus tributary inflow; no flow for several months in each year.

REMARKS.--Records good. Flow regulated by Jameson Lake and Gibraltar Reservoir (see sta 11121000, 11122000). Water diverted out of basin from these reservoirs to cities of Montecito and Santa Barbara for municipal supply. Low flow affected by intermittent pumping for irrigation from infiltration gallery in riverbed at station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	65	2.4	56	9.8	66	13	1.5	.26	.30	
2		0	31	2.8	56	196	87	14	1.3	.21	.20	
3		0	11	2.8	54	358	66	14	2.7	3.0	0	
4		0	6.4	60	51	251	39	13	2.6	3.5	0	
5		0	4.5	100	52	63	25	12	2.5	5.1	0	
6		0	3.7	138	39	80	26	12	1.9	2.5	0	
7		0	3.3	1,160	36	132	28	11	.35	4.7	0	
8		0	3.3	1,220	43	464	29	11	0	4.7	0	
9		0	3.0	528	42	304	30	9.5	1.6	2.7	0	
10		0	2.8	329	39	222	29	8.9	4.5	3.0	0	
11		0	2.6	214	39	210	31	8.2	5.1	3.2	0	
12		0	2.5	181	40	203	28	8.3	5.4	2.8	0	
13		0	2.5	214	38	178	28	11	5.1	3.2	0	
14		0	2.5	162	40	85	25	8.0	3.5	1.6	0	
15		0	2.5	153	39	81	22	8.8	.59	.83	0	
20		0	2.3	258	27	48	17	7.0	0	1.1	0	
21		0	2.3	229	27	32	17	6.9	0	2.0	0	
22		0	2.8	195	24	50	16	6.7	0	1.2	0	
23		0	3.0	165	13	54	17	4.6	0	.29	0	
24		0	2.9	43	10	52	19	3.9	0	0	0	
25		0	2.8	24	9.0	50	20	4.8	0	0	0	
26		0	2.8	50	18	52	19	3.9	.16	0	0	
27		0	2.6	75	11	98	18	3.1	0	0	0	
28		0	3.3	71	9.5	79	17	1.8	0	.10	0	
29		.40	2.8	71	-----	87	16	3.3	.22	.17	0	
30		.46	2.6	65	-----	42	13	3.1	.30	.30	0	
31		-----	2.5	65	-----	70	-----	3.1	-----	.21	0	-----
TOTAL	0	4.46	188.5	6,847.4	898.5	4,022.8	829	246.2	39.33	52.03	.50	0
MEAN	0	.15	6.08	221	32.1	130	27.6	7.94	1.31	1.68	.016	0
MAX	0	3.0	65	1,220	56	464	87	14	5.4	5.1	.30	0
MIN	0	0	2.3	2.4	9.0	9.8	13	1.8	0	0	0	0
AC-FT	0	8.8	374	13,580	1,780	7,980	1,640	488	78	103	1.0	0
CAL YR 1973	TOTAL	58,424.77	MEAN	160	MAX	14,600	MIN	0	AC-FT	115,900		
WTR YR 1974	TOTAL	13,128.72	MEAN	36.0	MAX	1,220	MIN	0	AC-FT	26,040		

SANTA YNEZ RIVER BASIN

11124500 SANTA CRUZ CREEK NEAR SANTA YNEZ, CALIF.

LOCATION.--Lat 34°35'48", long 119°54'28", in San Marcos Grant, Santa Barbara County, on right bank 0.6 mi (1.0 km) downstream from Pine Canyon, and 9.9 mi (15.9 km) east of Santa Ynez.

DRAINAGE AREA.--74.0 mi² (191.7 km²).

PERIOD OF RECORD.--October 1941 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 783.38 ft (238.774 m) above mean sea level. See WSP 1735 for history of changes prior to Sept. 27, 1952. Sept. 27, 1952, to June 24, 1969, at datum 3.25 ft (0.991 m) higher.

AVERAGE DISCHARGE.--33 years, 16.9 ft³/s (0.479 m³/s), 12,240 acre-ft/yr (15.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 648 ft³/s (18.4 m³/s) Jan. 7 (gage height, 9.44 ft or 2.877 m); no flow for several months.

Period of record: Maximum discharge, 7,050 ft³/s (200 m³/s) Feb. 24, 1969 (gage height, 14.45 ft or 4.404 m, from floodmark, present datum), from rating curve extended above 2,500 ft³/s (70.8 m³/s) on basis of slope-area measurement at gage height 14.16 ft (4.316 m); no flow at times since 1953.

REMARKS.--Records poor. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	74	8.4	13	13	11	9.0	3.0	.41			
2	0	26	7.1	13	105	45	6.8	2.7	.37			
3	0	6.0	6.9	13	25	20	9.4	2.6	.37			
4	0	4.5	29	13	17	13	9.4	3.0	.37			
5	0	4.0	32	13	13	13	9.4	3.0	.37			
6	0	3.5	31	13	11	13	9.0	3.0	.37			
7	0	3.0	359	13	10	13	7.2	2.0	.37			
8	0	2.7	235	13	45	13	6.6	2.0	.37			
9	0	2.6	53	13	24	13	6.6	2.0	.37			
10	0	2.4	30	13	31	13	7.0	2.0	.37			
11	0	2.3	16	9.4	27	13	6.6	1.4	.37			
12	0	2.1	49	9.4	24	13	6.6	1.4	.20			
13	0	2.0	66	9.4	23	13	6.5	1.4	.20			
14	0	1.9	49	9.4	22	12	6.6	1.4	.20			
15	0	1.9	47	9.4	17	12	5.8	1.4	.20			
16	0	1.8	70	13	17	12	5.7	1.4	.20			
17	0	1.8	236	13	13	12	5.6	.90	.20			
18	12	1.8	135	13	13	11	5.3	1.4	.10			
19	.86	1.8	126	13	13	11	5.8	1.4	.10			
20	0	1.9	75	9.4	13	11	5.6	1.4	.10			
21	0	2.0	42	9.4	13	11	4.4	1.4	.10			
22	0	2.0	35	9.4	10	10	5.7	1.4	.05			
23	0	1.9	27	9.4	6.6	10	5.4	.90	.05			
24	0	1.9	25	9.4	6.6	10	5.1	.58	.10			
25	0	1.9	24	9.4	6.6	11	3.9	.58	.03			
26	0	2.0	23	9.4	8.2	10	3.2	.55	.02			
27	0	4.3	19	9.4	15	9.8	2.6	.52	0			
28	0	5.7	19	9.3	10	9.6	2.6	.49	0			
29	0	4.5	19	-----	9.8	9.4	3.3	.46	0			
30	0	4.1	19	-----	11	9.2	3.4	.44	0			
31	-----	3.2	13	-----	11	-----	3.2	-----	0			
TOTAL	0	12.46	181.5	1,925.4	313.5	583.8	387.0	183.3	46.12	5.96	0	0
MEAN	0	.43	5.85	62.1	11.2	18.8	12.9	5.91	1.54	.19	0	0
MAX	0	12	74	359	13	105	45	9.4	3.0	.41	0	0
MIN	0	0	1.8	6.4	9.3	6.6	9.2	2.6	.44	0	0	0
AC-FT	0	25	360	3,820	622	1,160	768	364	91	12	0	0
CAL YR 1973	TOTAL	10,201.36	MEAN	27.9	MAX	1,340	MIN	0	AC-FT	20,230		
STR YR 1974	TOTAL	3,639.44	MEAN	9.97	MAX	359	MIN	0	AC-FT	7,220		

PEAK DISCHARGE (BASE, 100 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-1	1145	8.91	345	3-2	0945	8.70	250
1-7	1600	9.44	648	4-2	0215	8.31	111
1-17	1045	8.92	350				

11125500 LAKE CACHUMA NEAR SANTA YNEZ, CALIF.

LOCATION.--Lat 34°34'57", long 119°58'47", in Lomas de la Purification Grant, Santa Barbara County, at Cachuma Dam on Santa Ynez River, on upstream face near left end of dam, 6.1 mi (9.8 km) east of Santa Ynez.

DRAINAGE AREA.--417 mi² (1,080 km²).

PERIOD OF RECORD.--November 1952 to current year. Prior to October 1960, published as at Cachuma Reservoir near Santa Ynez.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (Bureau of Reclamation bench mark). Prior to Oct. 1, 1965, nonrecording gage.

EXTREMES.--Current year: Maximum contents, 205,800 acre-ft (254 hm³) Mar. 9 (elevation, 750.31 ft or 228.694 m); minimum, 181,400 acre-ft (224 hm³) Nov. 29 (elevation, 742.09 ft or 226.189 m).
Period of record: Maximum contents, 221,100 acre-ft (273 hm³) Feb. 24, 1969 (elevation, 755.11 ft or 230.158 m); minimum since initial filling in April 1958, 116,900 acre-ft (144 hm³) Jan. 7, 1973 (elevation, 716.19 ft or 218.295 m).

REMARKS.--Reservoir is formed by earthfill dam. Storage began November 1952. Capacity table is based on surveys made in January 1953. Dead storage below outlet gage to river (elevation, 600 ft or 182.9 m), 3,114 acre-ft (3.84 hm³), included in contents. Capacity below sill of inlet to Tecolote tunnel (elevation, 660 ft or 201.2 m), 32,514 acre-ft (40.1 hm³), below spillway level (elevation, 720 ft or 219.5 m), 125,292 acre-ft (154 hm³); below top of 4 radial gates (elevation, 750 ft or 228.6 m), 204,874 acre-ft (253 hm³). Water is released from outlet to Santa Ynez River to satisfy downstream water rights. Water diverted to Tecolote tunnel for use by city of Santa Barbara and nearby communities, to Santa Ynez River Water Conservation District, and to Cachuma recreation area.

COOPERATION.--Reservoir elevation, contents, and diversion figures furnished by Bureau of Reclamation.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet) ^a	Contents (acre-feet)	Change in contents (acre-feet)	Total diversions (acre-feet)
Sept. 30.....	743.54	185,600	--	--
Oct. 31.....	742.51	182,600	-3,000	1,870
Nov. 30.....	742.10	181,500	-1,100	898
Dec. 31.....	742.21	181,800	+300	316
CAL YR 1973.....	--	--	+64,700	21,400
Jan. 31.....	748.58	200,500	+18,700	855
Feb. 28.....	749.04	201,900	+1,400	684
Mar. 31.....	750.20	205,500	+3,600	504
Apr. 30.....	749.98	204,800	-700	1,300
May 31.....	748.89	201,500	-3,300	2,750
June 30.....	747.33	196,700	-4,800	3,150
July 31.....	745.49	191,300	-5,400	3,710
Aug. 31.....	743.85	186,500	-4,800	2,860
Sept. 30.....	742.30	182,000	-4,500	2,570
WTR YR 1974.....	--	--	-3,600	21,470

^a Elevation at 2400.

SANTA YNEZ RIVER BASIN

11126000 SANTA YNEZ RIVER NEAR SANTA YNEZ, CALIF.

LOCATION.--Lat 34°35'21", long 119°59'16", in Canada de los Pinos Grant, Santa Barbara County, on right bank 0.7 mi (1.1 km) downstream from Cachuma Dam, and 5.5 mi (8.8 km) southeast of Santa Ynez.

DRAINAGE AREA.--422 mi² (1,093 km²).

PERIOD OF RECORD.--December 1928 to September 1931, October 1932 to current year.

GAGE.--Water-stage recorder. Datum of gage is 545.66 ft (166.317 m) above mean sea level (Bureau of Reclamation bench mark). Prior to Oct. 1, 1955, at site 2.5 mi (4.0 km) downstream at different datum. Oct. 1, 1955, to Sept. 16, 1969, at site 0.4 mi (0.6 km) downstream at datum 7.2 ft (2.19 m) higher.

EXTREMES.--Current year: Maximum discharge, 308 ft³/s (8.72 m³/s) Mar. 11 (gage height, 4.90 ft or 1.494 m); no flow many days.

Period of record: Maximum discharge, 79,000 ft³/s (2,240 m³/s) Jan. 25, 1969 (gage height, 22.00 ft or 6.706 m, from floodmark, present datum), on basis of computation of maximum flow over dam; no flow at times in some years.

REMARKS.--Records poor. Flow regulated by Jameson Lake since December 1930, Gibraltar Reservoir, and Lake Cachuma since November 1952 (see sta 11121000, 11122000, 11125500). Water diverted out of basin from Jameson Lake, Gibraltar Reservoir, and Lake Cachuma to cities of Montecito, Santa Barbara, and to the Santa Ynez Valley for municipal supply. Some water pumped from wells along river banks for irrigation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	1.0	0	.84	1.6	54	2.8	1.1		0	0
2		0	.10	0	.81	2.5	162	2.7	1.0		0	0
3		0	0	0	.88	2.3	107	2.6	1.0		0	0
4		0	0	20	1.1	2.6	47	2.5	.98		0	0
5		0	0	23	.92	2.6	14	2.4	.97		0	0
6		0	0	24	.89	2.6	12	2.3	.96		0	0
7		0	0	138	.89	10	10	2.2	.95		0	0
8		0	0	39	1.1	15	9.0	2.2	.94		0	0
9		0	0	15	1.4	26	8.4	2.1	.93		0	0
10		0	0	10	1.7	233	8.0	2.0	.92		0	0
11		0	0	5.0	1.8	239	7.2	1.9	.90		0	0
12		0	0	2.0	2.0	232	7.0	1.9	.90		0	0
13		0	0	1.0	2.1	198	6.4	1.8	.88		0	0
14		0	0	.40	1.8	177	6.0	1.8	.86		0	0
15		0	0	.08	2.0	153	5.6	1.7	.84		0	0
16		0	0	0	2.3	94	5.3	1.7	.83		0	0
17		0	0	.11	2.3	55	5.0	1.6	.82		0	0
18		.50	0	.16	2.2	41	4.8	1.6	.80		0	0
19		0	0	.12	2.1	33	4.5	1.5	.78		4.0	0
20		0	0	.12	2.2	38	4.3	1.5	.76		13	0
21		0	0	.44	2.0	50	4.1	1.4	.74		9.0	0
22		0	0	.72	1.3	53	3.9	1.4	.72		12	0
23		0	0	1.2	.51	55	3.7	1.3	.70		9.0	0
24		0	0	1.4	.42	59	3.5	1.3	.68		5.0	0
25		0	0	1.5	.42	60	3.4	1.3	.66		3.0	0
26		0	0	1.6	.45	66	3.3	1.2	.62		2.0	0
27		0	0	1.3	.70	110	3.2	1.2	.58		1.2	29
28		0	0	1.1	1.2	118	3.1	1.2	.50		.68	48
29		0	0	1.0	-----	118	3.0	1.1	.25		.01	48
30		0	0	.94	-----	136	2.9	1.1	0		0	48
31		-----	0	.86	-----	71	-----	1.1	-----		0	-----
TOTAL	0	.50	1.10	295.05	38.33	2,454.2	521.6	54.4	23.57	0	58.89	173
MEAN	0	.017	.036	9.52	1.37	79.2	17.4	1.75	.79	0	1.90	5.77
MAX	0	.50	1.0	138	2.3	239	162	2.8	1.1	0	13	48
MIN	0	0	0	0	.42	1.6	2.9	1.1	0	0	0	0
AC-FT	0	1.0	2.2	585	76	4,870	1,030	108	47	0	117	343

CAL YR 1973 TOTAL 16,959.19 MEAN 46.5 MAX 1,260 MIN 0 AC-FT 33,640
 WTR YR 1974 TOTAL 3,620.64 MEAN 9.92 MAX 239 MIN 0 AC-FT 7,180

11128250 ALAMO PINTADO CREEK NEAR SOLVANG, CALIF.

LOCATION.--Lat 34°37'06", long 120°07'11", in SE¼NW¼NW¼ sec.11, T.6 N., R.31 W., Santa Barbara County, on right bank at downstream side of bridge on Alamo Pintado Road, 1.5 mi (2.4 km) northeast of Solvang.

DRAINAGE AREA.--29.4 mi² (76.1 km²).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 540.49 ft (164.741 m) above mean sea level (Santa Barbara County bench mark).

EXTREMES.--Current year: Maximum discharge, 93 ft³/s (2.63 m³/s) Jan. 7 (gage height, 4.02 ft or 1.225 m); no flow most of year.
 Period of record: Maximum discharge, 466 ft³/s (13.2 m³/s) Jan. 18, 1973 (gage height, 6.00 ft or 1.829 m, from floodmark), from rating curve extended above 3.2 ft³/s (0.091 m³/s) on basis of slope-area measurement of peak flow; no flow most of each year.
 Flood of Jan. 25, 1969, reached a stage of 10.32 ft (3.146 m).

REMARKS.--Records poor. No regulation above station. Pumping from wells along stream for irrigation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0								
2				0								
3				0								
4				0								
5				0								
6				0								
7				30								
8				.32								
9				0								
10				0								
11				0								
12				0								
13				0								
14				0								
15				0								
16				0								
17				0								
18				0								
19				0								
20				0								
21				0								
22				0								
23				0								
24				0								
25				0								
26				0								
27				0								
28				0								
29				0	-----							
30				0	-----							
31		-----		0	-----		-----		-----			-----
TOTAL	0	0	0	30.32	0	0	0	0	0	0	0	0
MEAN	0	0	0	.98	0	0	0	0	0	0	0	0
MAX	0	0	0	30	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	60	0	0	0	0	0	0	0	0
CAL YR 1973	TOTAL 86.84	MEAN .24	MAX 40	MIN 0	AC-FT 172							
WTR YR 1974	TOTAL 30.32	MEAN .083	MAX 30	MIN 0	AC-FT 60							

PEAK DISCHARGE (BASE, 10 FT³/S).--Jan. 7 (1800) 93 ft³/s (4.02 ft).

SANTA YNEZ RIVER BASIN

111283000 ALISAL RESERVOIR NEAR SOLVANG, CALIF.

LOCATION(revised).--Lat 34°32'56", long 120°07'45", in SE¼NE¼NW¼ sec.4, T.5 N., R.31 W., Santa Barbara County, in cove, on right bank 0.4 mi (0.6 km) upstream from reservoir spillway, and 3 mi (5 km) south of Solvang.

DRAINAGE AREA.--7.83 mi² (20.28 km²).

PERIOD OF RECORD.--December 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES.--Current year: Maximum contents, 2,540 acre-ft (3.13 hm³) Jan. 7 (elevation, 601.77 ft or 183.419 m); minimum, 2,240 acre-ft (2.76 hm³) Nov. 16 (elevation, 598.43 ft or 182.401 m).

Period of record: Maximum contents, 2,650 acre-ft (3.27 hm³) Feb. 27, 1973 (elevation, 602.95 ft or 183.779 m); minimum, 748 acre-ft (922,000 m³) Nov. 8-10, 1972 (elevation, 577.15 ft or 175.915 m).

REMARKS.--Lake is formed by earthfill dam. Storage began Dec. 19, 1970. Usable capacity, 2,260 acre-ft (2.79 hm³) between bottom of outlet gate at elevation 555.70 ft (169.377 m) and crest of spillway at elevation 599.88 ft (182.843 m). Dead storage, 110 acre-ft (136,000 m³). Inflow must total 150 acre-ft (185,000 m³) during any one month between November and June to store flow for year.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet) ^a	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	598.75	2,270	--
Oct. 31.....	598.52	2,250	-20
Nov. 30.....	598.63	2,260	+10
Dec. 31.....	599.36	2,320	+60
CAL YR 1973.....	--	--	+1,371
Jan. 31.....	600.32	2,410	+90
Feb. 28.....	600.27	2,400	-10
Mar. 31.....	600.32	2,410	+10
Apr. 30.....	600.28	2,410	0
May 31.....	600.23	2,400	-10
June 30.....	600.01	2,380	-20
July 31.....	599.55	2,340	-40
Aug. 31.....	599.02	2,290	-50
Sept. 30.....	598.62	2,260	-30
WTR YR 1974.....	--	--	-10

^a Elevation at 1800.

11128500 SANTA YNEZ RIVER AT SOLVANG, CALIF.

LOCATION.--Lat 34°35'06", long 120°08'37", in San Carlos de Jonata Grant, Santa Barbara County, on downstream side of right abutment of Mission bridge, 25 ft (8 m) downstream from Alisal Creek, and 0.8 mi (1.3 km) southwest of Solvang.

DRAINAGE AREA.--579 mi² (1,500 km²).

PERIOD OF RECORD.--October 1928 to November 1936, June 1937 to November 1940 (irrigation seasons only), October 1946 to current year.

GAGE.--Water-stage recorder. Datum of gage is 362.43 ft (110.469 m) above mean sea level. Various datums used during period of record. July 29 to Sept. 30, 1953, auxiliary water-stage recorder 750 ft (229 m) upstream at different datum. Oct. 1, 1953, to Sept. 30, 1968, water-stage recorder at datum 2.00 ft (0.610 m) higher.

EXTREMES.--Current year: Maximum discharge, 1,250 ft³/s (35.4 m³/s) Jan. 7 (gage height, 6.01 ft or 1.832 m); no flow for several months.
Period of record (1928-36, 1946 to current year): Maximum discharge, 82,000 ft³/s (2,320 m³/s), estimated, Jan. 25, 1969 (gage height, 17.1 ft or 5.21 m, from floodmark); no flow for several months in many years.

REMARKS.--Records fair. Flow regulated by Jameson Lake, Gibraltar Reservoir, and since November 1952 by Lake Cachuma (see sta 11121000, 11122000, 11125500). Water diverted out of basin from Jameson Lake, Gibraltar Reservoir, and Lake Cachuma to cities of Montecito, Santa Barbara, and Goleta for municipal supply. Some water for irrigation pumped from wells along banks of river in valley upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			1.3	.80	13	9.4	54	4.4	.20			
2			2.6	.65	13	28	222	4.3	.18			
3			2.6	.41	12	19	176	4.2	.14			
4			2.3	.20	12	14	101	4.1	.08			
5			2.3	.10	12	10	35	4.0	.04			
6			2.0	.33	11	9.4	23	3.9	.03			
7			2.1	.32	11	26	23	3.8	0			
8			1.8	.24	11	83	25	3.8	0			
9			1.5	.98	10	36	23	3.7	0			
10			1.4	.23	10	100	22	3.6	0			
11			1.3	.22	10	208	18	3.6	0			
12			1.2	.20	9.0	227	18	3.4	0			
13			1.0	.19	9.0	216	21	3.1	0			
14			1.2	.18	9.0	195	25	2.8	0			
15			.98	.15	8.0	186	27	2.4	0			
16			.79	.16	8.0	144	20	2.2	0			
17			1.1	.20	8.0	77	17	2.2	0			
18			.82	.19	7.0	49	16	1.8	0			
19			.68	.18	7.0	31	13	1.8	0			
20			.65	.16	7.0	26	11	1.4	0			
21			.58	.16	6.0	27	9.4	1.3	0			
22			.78	.15	6.0	34	8.9	1.1	0			
23			.72	.14	6.0	33	7.9	.87	0			
24			.60	.13	5.8	36	9.5	.56	0			
25			.63	.9.4	5.8	37	7.6	.47	0			
26			.41	.10	5.7	42	8.5	.39	0			
27			.59	.9.5	5.7	96	6.4	.21	0			
28			.65	.9.1	5.6	120	6.3	.32	0			
29			.45	.11	-----	126	5.1	.26	0			
30			.46	.10	-----	150	4.5	.21	0			
31		-----	.37	.12	-----	110	-----	.17	-----			-----
TOTAL	0	0	35.86	1,576.86	243.6	2,504.8	964.1	70.36	.67	0	0	0
MEAN	0	0	1.16	50.9	8.70	80.8	32.1	2.27	.022	0	0	0
MAX	0	0	2.6	832	13	227	222	4.4	.20	0	0	0
MIN	0	0	.37	.41	5.6	9.4	4.5	.17	0	0	0	0
AC-FT	0	0	71	3,130	483	4,970	1,910	140	1.3	0	0	0
CAL YR 1973	TOTAL	24,282.60	MEAN	66.5	MAX	1,150	MIN	0	AC-FT	48,160		
WTR YR 1974	TOTAL	5,396.25	MEAN	14.8	MAX	832	MIN	0	AC-FT	10,700		

SANTA YNEZ RIVER BASIN

11129800 ZACA CREEK NEAR BUELLTON, CALIF.

LOCATION.--Lat 34°38'55", long 120°11'00", in San Carlos de Jonata Grant, Santa Barbara County, on upstream end of left pier of bridge on frontage road, 0.9 mi (1.4 km) upstream from Dry Creek, 2.4 mi (3.9 km) north of Buellton, and 4.0 mi (6.4 km) upstream from mouth.

DRAINAGE AREA.--32.8 mi² (85.0 km²).

PERIOD OF RECORD.--September 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 471.54 ft (143.725 m) above mean sea level.

AVERAGE DISCHARGE.--11 years, 1.02 ft³/s (0.0289 m³/s), 739 acre-ft/yr (911,000 m³/yr).

EXTREMES.--Current year: Maximum discharge, 16 ft³/s (0.45 m³/s) Mar. 30 (gage height, 2.59 ft or 0.789 m); no flow most of year.

Period of record: Maximum discharge, 1,390 ft³/s (39.4 m³/s) Feb. 24, 1969 (gage height, 9.20 ft or 2.804 m); no flow most of each year.

REMARKS.--Records poor. Slight regulation by Zaca Lake. Some pumping from wells along stream for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0		0	1.6					
2				0		0	.71					
3				.40		0	0					
4				4.0		0	0					
5				1.0		0	0					
6				3.5		0	0					
7				9.0		0	0					
8				5.0		0	0					
9				.04		0	0					
10				0		0	0					
11				0		0	0					
12				0		0	0					
13				0		0	0					
14				0		0	0					
15				0		0	0					
16				.66		0	0					
17				.34		0	0					
18				0		0	0					
19				0		0	0					
20				0		0	0					
21				0		0	0					
22				0		0	0					
23				0		0	0					
24				0		0	0					
25				0		0	0					
26				0		.03	0					
27				0		.83	0					
28				0		0	0					
29				0	-----	0	0					
30				0	-----	.97	0					
31		-----		0	-----	0	-----		-----		-----	
TOTAL	0	0	0	23.94	0	1.83	2.31	0	0	0	0	0
MEAN	0	0	0	.77	0	.059	.077	0	0	0	0	0
MAX	0	0	0	9.0	0	.97	1.6	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	47	0	3.6	4.6	0	0	0	0	0
CAL YR 1973	TOTAL 308.17	MEAN .84	MAX 101	MIN 0	AC-FT 611							
WTR YR 1974	TOTAL 28.08	MEAN .077	MAX 9.0	MIN 0	AC-FT 56							

PEAK DISCHARGE (BASE, 10 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
1-4	0130	2.57	15	3-30	0845	2.59	16
1-16	1245	2.50	12	4-1	2215	2.57	15
3-27	0045	2.56	14				

11130500 SANTA YNEZ RIVER NEAR BUELLTON, CALIF.

LOCATION.--Lat 34°36'38", long 120°14'53", in Santa Rosa Grant, Santa Barbara County, on left bank 0.5 mi (0.8 km) downstream from Canada de los Palos Blancos, and 3 mi (5 km) west of Buellton.

DRAINAGE AREA.--668 mi² (1,730 km²).

PERIOD OF RECORD.--June 1948 to September 1952 (irrigation seasons only); October 1952 to September 1965; October 1965 to September 1974, wading stages only (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 260.68 ft (79.455 m) above mean sea level (Bureau of Reclamation bench mark). See WSP 1928 for history of changes prior to Mar. 29, 1962. Mar. 29, 1962, to Oct. 1, 1969, at site 100 ft (30 m) upstream at datum 1 ft (0.3 m) lower.

REMARKS.--Records good except those for discharges above 400 ft³/s (11.3 m³/s), which are poor. This is a project station. Discharge above wading stages is estimated. Flow regulated by Jameson Lake, Gibraltar Reservoir, and since November 1952 by Lake Cachuma (see sta 11121000, 11122000, 11125500). Water diverted out of basin from Jameson Lake, Gibraltar Reservoir, and Lake Cachuma to cities of Montecito, Santa Barbara, and Goleta for municipal supply. Water pumped from wells along banks of river for irrigation in valley upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.01	5.9	9.4	17	11	98	15	2.5	.03		
2	0	.10	5.6	8.9	17	25	206	13	2.3	.03		
3	0	.22	4.4	8.9	16	33	227	13	2.2	0		
4	0	.27	4.4	38	16	27	181	12	2.0	0		
5	0	.33	4.4	30	16	23	138	11	1.9	0		
6	0	.47	4.5	21	14	21	111	11	1.7	.01		
7	0	.45	4.8	831	14	23	100	11	1.5	.01		
8	0	.53	4.8	540	13	95	95	11	1.4	0		
9	0	.52	5.2	145	13	69	92	10	1.3	0		
10	0	.56	5.6	90	13	78	82	9.1	1.1	0		
11	0	.60	5.6	72	13	189	73	8.5	1.0	0		
12	0	.65	5.6	57	13	214	67	8.3	.90	0		
13	0	.65	6.0	42	13	214	67	7.8	.80	0		
14	0	.65	6.0	33	13	185	71	7.4	.70	0		
15	0	.56	6.0	27	12	177	73	7.0	.65	0		
16	0	.65	6.0	27	12	145	69	6.8	.55	0		
17	0	.87	6.0	38	11	95	54	6.4	.50	0		
18	0	1.1	6.0	35	11	73	46	6.1	.40	0		
19	0	1.1	6.4	31	12	61	41	5.7	.35	0		
20	0	.99	6.4	29	11	52	35	5.4	.30	0		
21	0	.87	6.4	26	11	47	31	5.0	.25	0		
22	0	1.3	7.3	23	11	50	28	4.7	.20	0		
23	0	1.4	7.3	22	11	52	25	4.4	.15	0		
24	0	1.4	7.3	21	11	52	25	4.2	.10	0		
25	0	1.3	6.9	19	11	57	22	4.0	.09	0		
26	0	1.4	7.3	18	11	61	19	3.7	.08	0		
27	0	1.3	8.9	18	10	74	18	3.5	.07	0		
28	0	1.4	8.9	18	10	116	16	3.3	.06	0		
29	.06	1.4	8.3	19	-----	128	15	3.1	.05	0		
30	0	2.0	7.8	18	-----	145	15	2.9	.04	0		
31	0	-----	7.8	17	-----	148	-----	2.7	-----	0		
TOTAL	.06	25.45	193.8	2,332.2	356	2,740	2,140	227.0	25.14	.08	0	0
MEAN	.002	.85	6.25	75.2	12.7	88.4	71.3	7.32	.94	.003	0	0
MAX	.06	2.0	8.9	831	17	214	227	15	2.5	.03	0	0
MIN	0	.01	4.4	8.9	10	11	15	2.7	.04	0	0	0
AC-FT	.1	50	384	4,630	706	5,430	4,240	450	50	.2	0	0
CAL YR 1973	TOTAL	29,533.23	MEAN	80.9	MAX	1,870	MIN	0	AC-FT	58,580		
WTR YR 1974	TOTAL	8,039.73	MEAN	22.0	MAX	831	MIN	0	AC-FT	15,950		

11131500 SANTA YNEZ RIVER AT COOPER'S REEF, NEAR LOMPOC, CALIF.

LOCATION.--Lat 34°36'48", long 120°21'23", near boundary of Canada de Salsipuedes Grant, Santa Barbara County, on right bank 0.6 mi (1.0 km) upstream from Canada de la Vina, and 6 mi (10 km) east of Lompoc.

DRAINAGE AREA.--708 mi² (1,830 km²).

PERIOD OF RECORD.--October 1954 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 160 ft (49 m), from topographic map. Prior to Sept. 18, 1969, at site 100 ft (30 m) downstream at datum about 0.6 ft (0.18 m) higher (reference marks destroyed by floods of 1969).

EXTREMES.--Current year: Maximum discharge, 1,730 ft³/s (49.0 m³/s) Jan. 7 (gage height, 7.84 ft or 2.390 m), from rating curve extended above 201 ft³/s (5.69 m³/s); no flow for several months.

Period of record: Maximum discharge, 81,000 ft³/s (2,290 m³/s), estimated, Jan. 25, 1969 (gage height, 22.5 ft or 6.86 m, site and datum then in use, from floodmark); no flow for several months in some years.

REMARKS.--Records poor. Flow regulated by Jameson Lake, Gibraltar Reservoir, and Lake Cachuma (see sta 11121000, 11122000, 11125500). Water diverted out of basin from Jameson Lake, Gibraltar Reservoir, and Lake Cachuma to cities of Montecito, Santa Barbara, and Goleta for municipal supply. Water pumped from wells along banks of river for irrigation in valley upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	0	9.7	32	22	15	114	12	1.3	.04		
2	.01	0	2.5	32	22	22	161	11	1.1	.04		
3	0	0	.50	34	22	30	208	11	.92	.04		
4	0	0	.50	63	21	29	157	10	.80	.04		
5	0	0	.50	61	21	25	109	10	.70	.03		
6	0	0	.57	53	20	23	72	10	.60	.03		
7	0	0	.97	713	19	27	56	9.7	.50	.03		
8	0	0	1.2	760	19	73	49	9.1	.43	.03		
9	0	0	1.2	235	19	74	48	8.5	.35	.03		
10	0	0	1.8	110	18	54	44	8.0	.30	.03		
11	0	0	2.8	73	18	153	40	7.6	.25	.03		
12	0	0	4.4	61	18	204	35	7.0	.21	.03		
13	0	0	5.7	48	18	209	33	6.4	.17	.02		
14	0	0	8.0	36	18	182	34	5.8	.15	.02		
15	0	0	10	32	17	169	36	5.4	.12	.02		
16	0	0	12	36	18	148	38	5.0	.10	.02		
17	0	0	13	48	17	107	33	4.8	.08	.02		
18	0	.45	15	40	17	73	28	4.3	.07	.02		
19	0	.14	16	38	18	61	26	4.0	.06	.01		
20	0	0	18	37	16	50	24	3.8	.05	.01		
21	0	0	20	34	16	46	22	3.4	.05	.01		
22	0	.03	21	30	16	47	20	3.2	.05	.01		
23	.03	.23	22	28	16	50	19	3.0	.05	.01		
24	.03	.14	22	27	16	52	19	2.7	.05	.01		
25	0	.10	23	26	16	59	16	2.5	.05	.01		
26	0	.07	24	26	16	66	16	2.3	.05	.01		
27	0	.04	27	24	15	84	15	2.1	.04	.01		
28	0	.04	30	24	15	114	14	1.9	.04	.01		
29	0	.07	30	23	-----	130	13	1.8	.04	.01		
30	0	.10	31	23	-----	144	12	1.6	.04	.01		
31	0	-----	31	22	-----	153	-----	1.6	-----	.01	-----	
TOTAL	.09	1.41	405.34	2,829	504	2,673	1,511	179.5	8.72	.65	0	0
MEAN	.003	.047	13.1	91.3	18.0	86.2	50.4	5.79	.29	.021	0	0
MAX	.03	.45	31	760	22	209	208	12	1.3	.04	0	0
MIN	0	0	.50	22	15	15	12	1.6	.04	.01	0	0
AC-FT	.2	2.8	804	5,610	1,000	5,300	3,000	356	17	1.3	0	0
CAL YR 1973	TOTAL	29,173.71	MEAN	79.9	MAX	2,450	MIN	0	AC-FT	57,870		
WTR YR 1974	TOTAL	8,112.71	MEAN	22.2	MAX	760	MIN	0	AC-FT	16,090		

11132500 SALSIPUEDES CREEK NEAR LOMPOC, CALIF.

LOCATION.--Lat 34°35'19", long 120°24'27", in W½ sec.24, T.6 N., R.34 W., Santa Barbara County, on right bank at bridge on Jalama Road, 0.4 mi (0.6 km) downstream from El Jaro Creek, and 4.4 mi (7.1 km) southeast of Lompoc.

DRAINAGE AREA.--47.1 mi² (122.0 km²).

PERIOD OF RECORD.--January 1941 to current year.

GAGE.--Water-stage recorder and concrete low-water control. Altitude of gage is 220 ft (67 m), from topographic map.

AVERAGE DISCHARGE.--33 years, 8.46 ft³/s (0.240 m³/s), 6,130 acre-ft/yr (7.56 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,160 ft³/s (61.2 m³/s) Jan. 7 (gage height, 6.79 ft or 2.070 m); minimum daily, 0.48 ft³/s (0.014 m³/s) Sept. 9.
Period of record: Maximum discharge, 11,400 ft³/s (323 m³/s) Mar. 15, 1952 (gage height, 20.8 ft or 6.34 m); no flow at times in some years.

REMARKS.--Records good. No regulation above station. Small diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	.68	17	2.8	6.7	11	12	3.0	3.0	1.6	.85	.72
2	1.2	.75	3.0	3.6	6.5	78	44	3.4	3.1	1.6	.79	.72
3	1.2	.99	1.7	2.8	6.2	18	14	3.0	3.1	1.6	.77	.72
4	1.2	1.0	1.4	81	6.2	11	11	3.4	3.2	1.4	.73	.72
5	1.2	1.0	1.4	15	6.2	8.8	9.3	3.0	3.1	1.2	.74	.72
6	1.3	1.2	1.3	96	5.8	8.2	8.7	3.4	3.0	1.2	.74	.72
7	1.3	1.2	1.2	805	5.5	77	8.1	3.0	3.1	1.2	.76	.72
8	1.5	1.4	1.2	104	5.7	60	7.7	3.0	3.2	1.2	.73	.72
9	1.6	1.4	1.2	33	5.8	18	7.9	3.0	3.0	1.2	.79	.48
10	1.2	1.4	1.2	20	5.2	14	7.0	3.0	3.0	1.2	.95	.72
11	1.2	1.4	1.2	16	5.3	12	6.7	3.0	2.7	1.0	.97	.72
12	1.1	1.5	1.4	15	5.2	12	6.3	3.4	2.8	.86	.99	.72
13	.96	1.5	1.5	12	4.9	11	5.8	2.7	2.8	.72	1.0	.72
14	.87	1.5	1.6	10	5.3	11	5.6	2.7	2.5	.72	1.0	.72
15	.90	1.4	1.6	9.3	5.3	10	5.5	3.7	2.2	.86	.96	.86
16	.97	1.8	1.6	13	5.3	9.4	5.1	3.4	2.0	.86	.92	.86
17	1.2	3.1	1.9	28	5.3	9.2	5.3	3.0	1.9	.86	.87	.86
18	1.1	6.0	2.3	14	4.9	9.0	4.8	3.0	1.8	.86	.77	.86
19	1.1	1.7	2.3	11	5.1	9.0	4.7	2.7	1.9	.86	.64	.71
20	1.1	1.4	2.2	11	5.0	8.8	4.7	3.0	1.7	.72	.66	.82
21	1.4	1.4	2.3	9.5	4.9	8.8	4.4	3.0	1.9	.86	.63	.86
22	1.7	1.9	4.2	8.8	4.9	8.8	3.9	3.0	1.9	.69	.64	.90
23	3.0	3.3	2.3	8.7	4.6	8.8	4.4	3.0	2.0	.81	.59	.84
24	1.4	2.4	1.9	8.2	4.5	8.9	5.1	3.0	1.9	.78	.74	.93
25	.89	1.9	1.7	7.7	4.6	9.0	4.6	2.7	1.8	.79	.73	.86
26	.79	1.7	1.9	7.7	4.9	10	4.5	2.7	1.7	.82	.74	1.0
27	.72	1.6	2.6	7.3	4.9	10	4.1	2.4	1.6	.69	.72	.86
28	.65	1.6	4.0	7.2	5.0	10	4.1	3.1	1.7	.71	.72	.72
29	.64	1.6	2.4	7.2	-----	10	3.7	2.9	1.7	.79	.72	.86
30	.63	1.6	2.1	7.1	-----	10	3.4	2.7	1.7	.90	.86	.72
31	.62	-----	2.1	6.7	-----	10	-----	3.2	-----	.90	.86	-----
TOTAL	35.74	51.32	75.7	1,388.6	149.7	509.7	226.4	93.5	71.0	30.46	24.58	23.36
MEAN	1.15	1.71	2.44	44.8	5.35	16.4	7.55	3.02	2.37	.98	.79	.78
MAX	3.0	6.0	17	805	6.7	78	44	3.7	3.2	1.6	1.0	1.0
MIN	.62	.68	1.2	2.8	4.5	8.2	3.4	2.4	1.6	.69	.59	.48
AC-FT	71	102	150	2,750	297	1,010	449	185	141	60	49	46

CAL YR 1973 TOTAL 7,963.11 MEAN 21.8 MAX 1,520 MIN .12 AC-FT 15,790
WTR YR 1974 TOTAL 2,680.06 MEAN 7.34 MAX 805 MIN .48 AC-FT 5,320

		PEAK DISCHARGE (BASE, 100 FT ³ /S)					
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
1-4	0415	3.32	351	3-7	2045	3.78	483
1-7	1430	6.79	2,160	4-2	0330	2.22	104
3-2	0200	2.99	272				

SANTA YNEZ RIVER BASIN

11133000 SANTA YNEZ RIVER AT NARROWS, NEAR LOMPOC, CALIF.

LOCATION.--Lat 34°38'16", long 120°25'32", in Canada de Salsipuedes Grant, Santa Barbara County, on left bank 0.5 mi (0.8 km) upstream from State Highway 246, 1.9 mi (3.1 km) east of Lompoc, and 1.9 mi (3.1 km) downstream from Salsipuedes Creek.

DRAINAGE AREA.--789 mi² (2,040 km²).

PERIOD OF RECORD.--May 1947 to November 1951 (irrigation seasons only). May 1952 to September 1963, October 1964 to current year. Records equivalent, excepting low-flow periods, to those published as "near Lompoc" (sta 11133500), November to December 1906, October 1907 to September 1918, May 1925 to September 1960.

GAGE.--Water-stage recorder. Altitude of gage is 90 ft (27 m), from topographic map. See WSP 1715 for history of changes prior to Oct. 1, 1961. Since Oct. 1, 1961, at various sites and datums within 0.1 mi (0.2 km) of present site and supplementary water-stage recorder at site 0.5 mi (0.8 km) downstream at datum 79.25 ft (24.155 m) above mean sea level (now used for high-water periods).

EXTREMES.--Current year: Maximum discharge, 1,950 ft³/s (55.2 m³/s) Jan. 7 (gage height, 8.50 ft or 2.591 m, from high-water mark); no flow for several months.

Period of record (1952-63, 1964 to current year): Maximum discharge, 80,000 ft³/s (2,270 m³/s) Jan. 25, 1969 (gage height, 24.20 ft or 7.376 m, from supplementary gage); no flow at times in each year.

Flood of Jan. 9, 1907, 120,000 ft³/s (3,400 m³/s), gage height, 22.0 ft (6.71 m), site and datum then in use, from discharge-mean depth study.

REMARKS.--Records poor. Flow regulated by Jameson Lake, Gibraltar Reservoir, and since November 1952 by Lake Cachuma (see sta 11121000, 11122000, 11125500). Water diverted out of Jameson Lake, Gibraltar Reservoir, and Lake Cachuma to cities of Montecito, Santa Barbara, and Goleta for municipal supply. Water pumped from wells along banks of river for irrigation in valley upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	9.0	5.0	32	19	137	15	2.7	.70		
2		0	3.0	6.0	32	112	208	16	2.7	.60		
3		0	.91	8.0	32	43	255	16	3.3	.50		
4		0	.46	57	32	40	203	15	3.2	.30		
5		0	.45	18	32	33	138	15	3.1	.20		
6		0	.34	35	30	32	102	17	2.7	.10		
7		0	.33	945	27	80	80	15	2.5	.05		
8		0	.39	798	26	149	69	14	2.1	.03		
9		0	.37	290	27	102	67	13	2.0	.02		
10		0	.27	180	26	82	66	12	2.1	.01		
11		0	.33	120	26	136	61	11	2.3	0		
12		0	.33	100	25	225	55	10	2.5	0		
13		0	.40	82	25	263	52	10	2.7	0		
14		0	.48	70	25	235	47	9.5	2.7	0		
15		0	.48	68	24	220	46	9.2	2.5	0		
16		0	.48	71	24	202	46	8.5	2.6	0		
17		0	.57	115	24	157	45	8.1	2.5	0		
18		.80	.67	72	24	111	42	7.5	2.2	0		
19		.20	.67	65	24	98	38	7.4	2.0	0		
20		.10	.78	58	23	83	36	7.2	2.0	0		
21		0	1.2	57	22	67	33	6.6	1.7	0		
22		0	2.3	53	21	67	31	6.6	1.5	0		
23		.30	3.0	50	20	69	28	6.3	1.5	0		
24		.20	2.1	47	20	66	26	5.7	1.5	0		
25		.10	1.7	43	20	72	24	5.4	1.5	0		
26		.05	1.9	38	19	77	22	4.6	1.2	0		
27		.03	3.5	33	18	109	20	4.0	1.1	0		
28		.03	5.6	33	17	100	18	3.5	1.0	0		
29		.04	5.2	32	-----	134	17	3.5	.90	0		
30		.06	5.0	31	-----	176	16	3.2	.80	0		
31		-----	5.0	31	-----	179	-----	2.7	-----	0		-----
TOTAL	0	1.91	57.21	3,611.0	697	3,538	2,028	288.5	63.10	2.51	0	0
MEAN	0	.064	1.85	116	24.9	114	67.6	9.31	2.10	.081	0	0
MAX	0	.80	9.0	945	32	263	255	17	3.3	.70	0	0
MIN	0	0	.27	5.0	17	19	16	2.7	.80	0	0	0
AC-FT	0	3.8	113	7,160	1,380	7,020	4,020	572	125	5.0	0	0

CAL YR 1973 TOTAL 40,748.17 MEAN 112 MAX 2,500 MIN 0 AC-FT 80,820
WTR YR 1974 TOTAL 10,287.23 MEAN 28.2 MAX 945 MIN 0 AC-FT 20,400

NOTE.--No gage-height record Oct. 1 to Nov. 26, Dec. 29 to Jan. 15, June 28 to Sept. 30.

11133700 PURISIMA CREEK NEAR LOMPOC, CALIF.

LOCATION.--Lat 34°41'34", long 120°25'51", in La Purisima Grant, Santa Barbara County, on right bank 1.1 mi (1.8 km) northeast of junction of Buener Road and Lompoc-Casmalia Road, and 4.0 mi (6.4 km) northeast of Lompoc.

DRAINAGE AREA.--4.75 mi² (12.30 km²).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 270 ft (82 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 200 ft³/s (5.66 m³/s), estimated, probably occurred Jan. 7 (gage height, unknown); no flow most of year.

Period of record: Maximum discharge, 71 ft³/s (2.01 m³/s) Jan. 18, 1973 (gage height, 2.23 ft or 0.680 m), from rating curve extended above 2.2 ft³/s (0.062 m³/s) on basis of slope-area measurement of peak flow; no flow most of each year.

REMARKS.--Records poor. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	1.3	0		.37	.01					
2	0	0	.12	0		.59	5.2					
3	0	0	0	.14		.10	.05					
4	0	0	0	21		0	0					
5	0	0	0	1.0		0	0					
6	0	0	0	2.1		0	0					
7	0	0	0	72		.59	0					
8	0	0	0	1.0		.45	0					
9	0	0	0	0		.25	0					
10	0	0	0	0		.09	0					
11	0	.06	0	.04		.04	0					
12	0	0	0	.06		.01	0					
13	0	0	0	0		0	0					
14	0	.25	0	0		0	0					
15	0	.35	0	0		0	0					
16	0	.03	0	1.2		0	0					
17	0	0	0	7.1		0	0					
18	0	0	0	2.5		0	0					
19	0	.89	0	.60		0	0					
20	0	.25	0	.25		0	0					
21	0	.01	.55	.07		0	0					
22	0	0	.55	.04		0	0					
23	.07	0	0	.02		0	0					
24	0	0	0	.01		0	0					
25	0	0	0	0		0	0					
26	0	0	0	0		.19	0					
27	0	0	.87	0		1.2	0					
28	0	0	.62	0		1.3	0					
29	0	0	.10	0	-----	.70	0					
30	0	0	0	0	-----	4.7	0					
31	0	-----	0	0	-----	1.0	-----		-----			-----
TOTAL	.07	1.84	4.11	109.13	0	11.58	5.26	0	0	0	0	0
MEAN	.002	.061	.13	3.52	0	.37	.18	0	0	0	0	0
MAX	.07	.89	1.3	72	0	4.7	5.2	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	.1	3.6	8.2	216	0	23	10	0	0	0	0	0

CAL YR 1973 TOTAL 68.27 MEAN .19 MAX 8.5 MIN 0 AC-FT 135
WTR YR 1974 TOTAL 131.99 MEAN .36 MAX 72 MIN 0 AC-FT 262

PEAK DISCHARGE (BASE, 20 FT³/S).--Jan. 4 (0200) 57 ft³/s (2.13 ft); Jan. 7 (time and gage height unknown) 200 ft³/s.

11134800 MIGUELITO CREEK AT LONPOC, CALIF.

LOCATION.--Lat 34°37'57", long 120°27'51", in Lompoc Grant, Santa Barbara County, on right bank at upstream end of debris dam, and 1,500 ft (457 m) south of Lompoc Union High School.

DRAINAGE AREA.--11.6 mi² (30.0 km²).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 97.94 ft (29.852 m) above mean sea level (Santa Barbara County bench mark).

EXTREMES.--Current year: Maximum discharge, 318 ft³/s (9.01 m³/s) Jan. 4 (gage height, 4.12 ft or 1.256 m), from rating curve extended as explained below; no flow many days.

Period of record: Maximum discharge, 450 ft³/s (12.7 m³/s) Dec. 27, 1971 (gage height, 5.02 ft or 1.530 m), from rating curve extended above 144 ft³/s (4.08 m³/s) on basis of slope-area measurement of maximum flow; no flow many days in each year.

Flood of Jan. 25, 1969, reached a stage of 5.83 ft (1.777 m), from floodmark (discharge, 680 ft³/s or 19.3 m³/s).

REMARKS.--Records fair. No regulation or diversion above station; some pumping from wells along stream for irrigation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	0	10	.04	.98	7.5	5.0	.89	.60	.25	.21	.12
2	.05	0	.50	0	.98	6.4	13	.90	.53	.25	.19	.12
3	.04	0	.35	.09	.98	3.1	3.0	.73	.54	.25	.17	.13
4	.06	0	.29	27	.98	1.3	2.6	.73	.64	.27	.21	.13
5	.07	0	.18	1.3	.98	1.4	2.4	.84	.54	.30	.24	.13
6	.06	0	.09	2.7	.86	1.4	2.2	.85	.54	.41	.20	.09
7	.08	0	.09	92	.98	8.6	2.1	.79	.54	.82	.18	.09
8	.07	.01	.03	27	.98	3.5	1.9	.78	.64	1.5	.18	.09
9	.06	0	.09	6.0	1.1	2.1	1.8	.75	.64	.97	.18	.09
10	.06	.01	.03	2.6	1.1	1.9	1.7	.73	.64	.93	.18	.09
11	.06	0	.03	2.4	1.1	1.7	1.6	.61	.74	.86	.18	.09
12	.06	.09	0	2.0	.98	1.6	1.5	.65	.64	.80	.18	.09
13	.06	0	0	1.6	.98	1.5	1.5	.67	.48	.79	.18	.09
14	.05	0	0	1.3	.86	1.4	1.4	.72	.37	.66	.13	.09
15	.06	0	0	1.1	.86	1.4	1.3	.69	.24	.79	.13	.13
16	.04	.06	0	2.7	.86	1.3	1.3	.72	.09	.74	.09	.13
17	.03	2.0	0	4.7	.98	1.3	1.3	.74	.09	.54	.09	.09
18	.04	.03	0	1.7	.98	1.3	1.2	.44	.13	.20	.13	.13
19	.07	0	0	1.5	1.1	1.3	1.2	.84	.13	.20	.18	.09
20	.02	0	0	1.4	.86	1.2	1.2	.79	.09	.10	.17	.09
21	0	0	1.3	1.3	.74	1.2	1.1	.69	.09	.29	.13	.09
22	.05	.32	0	1.3	.74	1.2	1.1	.71	.13	.31	.08	.09
23	.14	0	0	1.2	.74	1.2	1.1	.72	.13	.24	.07	.09
24	.05	0	0	1.2	.74	1.2	1.2	.55	.13	.23	.08	.13
25	.07	0	0	1.2	.74	1.2	1.0	.41	.13	.22	.08	.12
26	.07	0	0	1.1	.74	1.2	1.0	.44	.13	.23	.09	.09
27	0	0	.21	1.1	.64	2.6	1.0	.50	.14	.22	.09	.11
28	0	0	0	1.1	.79	1.9	1.0	.56	.21	.22	.09	.10
29	.02	0	0	1.0	-----	1.7	1.0	.62	.16	.26	.09	.11
30	0	.04	0	.98	-----	5.4	.94	.70	.26	.23	.09	.12
31	0	-----	0	.93	-----	2.1	-----	.71	-----	.26	.10	-----
TOTAL	1.54	2.60	13.19	191.64	25.26	72.1	59.64	21.87	10.36	14.34	4.39	3.15
MEAN	.050	.087	.43	6.18	.90	2.33	1.99	.71	.35	.46	.14	.11
MAX	.18	2.0	10	92	1.1	8.6	13	.90	.74	1.5	.24	.13
MIN	0	0	0	0	.64	1.2	.94	.41	.09	.10	.07	.09
AC-FT	3.1	5.2	26	380	50	143	118	43	21	28	8.7	6.2

CAL YR 1973 TOTAL 852.80 MEAN 2.34 MAX 88 MIN 0 AC-FT 1,690
WTR YR 1974 TOTAL 420.08 MEAN 1.15 MAX 92 MIN 0 AC-FT 833

PEAK DISCHARGE (BASE, 100 FT³/S).--Jan. 4 (0230) 318 ft³/s (4.12 ft); Jan. 7 (1430) 234 ft³/s (3.56 ft).

SANTA YNEZ RIVER BASIN

11135000 SANTA YNEZ RIVER AT PINE CANYON, NEAR LOMPOC, CALIF.

LOCATION.--Lat 34°40'20", long 120°29'30", in Lompoc Grant, Santa Barbara County, on right bank at Floradale Avenue bridge, 2.1 mi (3.4 km) upstream from Santa Lucia Creek, and 3 mi (5 km) northwest of Lompoc.

DRAINAGE AREA.--844 mi² (2,186 km²).

PERIOD OF RECORD.--May 1941 to October 1946, August 1964 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 40.78 ft (12.430 m) above mean sea level. Prior to Aug. 24, 1964, at different datum. Aug. 24, 1964, to Aug. 20, 1970, at datum 0.91 ft (0.277 m) lower.

EXTREMES.--Current year: Maximum discharge, 2,110 ft³/s (59.8 m³/s) Jan. 7 (gage height, 6.95 ft or 2.118 m); no flow Sept. 22-26.

Period of record: Maximum discharge, 78,000 ft³/s (2,210 m³/s), estimated, Jan. 25, 1969 (gage height, 24.91 ft or 7.593 m, present datum, from floodmark); no flow at times in some years.

REMARKS.--Records fair. Flow regulated by Jameson Lake, Gibraltar Reservoir, and Lake Cachuma (see sta 11121000, 11122000, 11125500). Water diverted out of basin from Jameson Lake, Gibraltar Reservoir, and Lake Cachuma to cities of Montecito, Santa Barbara, and Goleta for municipal supply. Water pumped from wells along bank for irrigation in valley upstream. Effluent from city of Lompoc contributes to low flow most months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.54	.48	.56	4.7	12	38	231	4.9	1.5	1.0	.34	.34
2	.34	.48	1.7	1.7	11	147	347	4.4	1.4	.93	.29	.52
3	.34	.42	5.1	1.6	9.7	65	340	4.3	1.5	.84	.19	.71
4	.34	.76	1.9	157	9.4	32	308	4.3	1.5	.71	.20	.37
5	.44	.72	1.2	34	8.2	23	231	3.9	1.4	.97	.19	.31
6	.44	.70	.90	22	8.1	19	156	3.9	1.3	.83	.32	.37
7	.34	.66	.90	1,080	8.0	57	111	3.6	1.4	.92	.39	.41
8	.50	.62	.90	1,270	7.4	231	90	3.2	1.2	.86	.37	.24
9	.44	.66	.90	617	7.6	110	82	2.9	1.4	1.0	.44	.20
10	.44	.62	.99	317	7.4	67	72	2.9	2.0	.72	.33	.50
11	.44	.55	2.5	178	7.2	108	61	2.6	1.4	.70	.35	.19
12	.50	3.7	.10	102	7.0	270	53	2.6	1.3	.62	.34	.07
13	.99	.86	.50	58	6.8	323	47	2.7	1.7	.73	.41	.07
14	1.9	.64	.90	45	6.6	326	42	2.6	1.8	.73	.43	.04
15	1.9	.64	.99	38	6.4	304	41	2.5	1.5	.73	.43	.07
16	2.0	.99	.99	50	6.2	288	42	2.4	1.2	.80	.42	.08
17	2.0	7.7	1.1	136	6.0	233	41	2.7	1.0	.57	.36	.08
18	2.2	12	.99	50	5.8	155	33	3.5	.92	.51	.49	.08
19	2.5	.80	.99	35	5.6	120	29	2.5	.86	.46	.53	1.9
20	2.9	.64	.99	33	5.4	91	26	3.0	.84	.36	.62	9.3
21	3.1	1.1	3.3	29	5.2	77	22	2.6	1.6	.34	.44	3.7
22	3.5	9.2	2.4	27	5.0	68	20	2.1	.94	.24	.44	0
23	15	4.4	1.4	25	4.9	68	18	1.8	.86	.34	.41	0
24	5.8	.70	1.1	23	4.9	65	15	1.9	.82	.29	.33	0
25	3.0	.72	1.1	21	4.8	67	13	1.6	.84	.31	.58	0
26	2.1	.90	.90	19	4.8	82	11	1.4	.81	.25	.31	0
27	1.8	.64	2.1	17	4.7	155	9.0	1.2	.86	.21	.37	.02
28	1.5	.57	2.7	16	4.9	146	8.0	1.4	1.1	.19	.31	.05
29	1.3	.57	1.2	15	-----	181	7.0	1.6	.90	.19	.30	.04
30	1.2	.57	.99	14	-----	278	5.8	1.8	1.1	.28	.30	.72
31	1.1	-----	.99	13	-----	255	-----	2.1	-----	.27	.24	-----
TOTAL	61.10	55.45	110.72	4,449.00	191.4	4,489	2,511.8	84.9	36.95	18.10	11.47	20.38
MEAN	1.97	1.65	3.57	144	6.84	145	83.7	2.74	1.23	.58	.37	.68
MAX	15	12	56	1,270	12	326	347	4.9	2.0	1.0	.62	9.3
MIN	.34	.55	.10	1.6	4.7	19	5.8	1.2	.81	.19	.19	0
AC-FT	121	110	220	8,820	380	8,900	4,980	168	73	36	23	40

CAL YR 1973 TOTAL 41,606.64 MEAN 114 MAX 2,960 MIN 0 AC-FT 82,530
 APR YR 1974 TOTAL 12,040.27 MEAN 33.0 MAX 1,270 MIN 0 AC-FT 23,880

SAN ANTONIO CREEK BASIN

277

11135800 SAN ANTONIO CREEK AT LOS ALAMOS, CALIF.

LOCATION.--Lat 34°44'36", long 120°16'12", in Los Alamos Grant, Santa Barbara County, on left bank 100 ft (30 m) upstream from northbound lane of Highway 101 at Los Alamos.

DRAINAGE AREA.--34.9 mi² (90.4 km²).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 580 ft (177 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 17 ft³/s (0.48 m³/s) Jan. 7 (gage height, 1.80 ft or 0.549 m); no flow most of year.

Period of record: Maximum discharge, 233 ft³/s (6.60 m³/s) Jan. 18, 1973 (gage height, 3.60 ft or 1.097 m), from rating curve extended above 3 ft³/s (0.085 m³/s) on basis of slope-area measurements at gage heights, 2.16 ft (0.658 m) and 3.60 ft (1.097 m); no flow most of each year.

REMARKS.--Records good. No regulation above station. Pumping for irrigation of about 1,000 acres (4.05 km²) above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	4.6	.50	.28	.19	.28	.17				
2		0	1.1	.29	.28	1.7	1.2	.17				
3		0	.28	.20	.28	1.5	.23	.17				
4		0	.11	5.2	.28	1.4	.14	.14				
5		0	.11	3.4	.28	.67	.10	.17				
6		0	.09	3.0	.28	.11	.10	.17				
7		0	.09	12	.28	.31	.06	.14				
8		0	.07	5.0	.26	.82	.06	.11				
9		0	.07	2.2	.24	.24	.02	.20				
10		0	.07	1.3	.24	.20	.08	.28				
11		0	.05	.98	.24	.20	0	.24				
12		.06	.05	.88	.24	.17	.06	.24				
13		.01	.07	.78	.20	.14	0	.17				
14		.01	.09	.70	.20	.14	.04	.28				
15		0	.09	.56	.20	.11	0	.24				
16		0	.09	.63	.20	.11	0	.17				
17		.75	.07	2.2	.20	.11	.08	.09				
18		7.0	.07	1.1	.20	.14	0	.05				
19		.94	.07	.80	.20	.11	.08	.07				
20		0	.05	.65	.20	.11	.05	.01				
21		0	.03	.60	.20	.09	0	.05				
22		2.6	.14	.45	.19	.09	0	.07				
23		3.8	.20	.40	.17	.09	0	.09				
24		.70	.14	.35	.17	.07	.06	.05				
25		.20	.11	.32	.17	.09	0	.03				
26		.11	.10	.30	.17	.11	.08	.03				
27		.09	2.0	.29	.17	.24	.38	.03				
28		.05	1.3	.28	.17	.15	.39	.03				
29		.05	.38	.28	-----	.17	.18	0				
30		.09	.20	.28	-----	.42	.22	0				
31		-----	.14	.28	-----	.24	-----	0	-----			-----
TOTAL	0	16.46	12.03	46.20	6.19	10.24	3.89	3.66	0	0	0	0
MEAN	0	.55	.39	1.49	.22	.33	.13	.12	0	0	0	0
MAX	0	7.0	4.6	12	.28	1.7	1.2	.28	0	0	0	0
MIN	0	0	.03	.20	.17	.07	0	0	0	0	0	0
AC-FT	0	33	24	92	12	20	7.7	7.3	0	0	0	0

CAL YR 1973 TOTAL 365.33 MEAN 1.00 MAX 73 MIN 0 AC-FT 725
 WTR YR 1974 TOTAL 98.67 MEAN .27 MAX 12 MIN 0 AC-FT 196

PEAK DISCHARGE (BASE, 30 FT³/S).--No peak above base.

SAN ANTONIO CREEK BASIN

11136100 SAN ANTONIO CREEK NEAR CASMALIA, CALIF.

LOCATION.--Lat 34°46'56", long 120°31'47", in Jesus Maria Grant, Santa Barbara County, on Vandenberg Military Reservation on downstream side of left center pile bent of San Antonio Road bridge, 0.7 mi (1.1 km) east of junction of San Antonio Road and Lompoc-Casmalia Road, and 3.8 mi (6.1 km) south of Casmalia.

DRAINAGE AREA.--135 mi² (350 km²).

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Concrete control since August 1970. Altitude of gage is 160 ft (49 m), from topographic map. Prior to June 27, 1958, at datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE.--19 years, 5.41 ft³/s (0.153 m³/s), 3,920 acre-ft/yr (4.83 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 225 ft³/s (6.37 m³/s) Apr. 2 (gage height, 6.54 ft or 1.993 m); minimum daily, 0.38 ft³/s (0.011 m³/s) Sept. 6, 9.
Period of record: Maximum discharge, 2,300 ft³/s (65.1 m³/s) Feb. 25, 1969 (gage height, 11.79 ft or 3.594 m); minimum daily, 0.10 ft³/s (0.003 m³/s) June 19, 20, 1957.

REMARKS.--Records good. No regulation above station. Flow affected by pumping from wells along stream for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.46	.65	4.9	1.9	3.4	8.2	16	1.2	1.0	.47	.54	.41
2	.50	.72	3.0	1.9	3.2	82	122	1.3	1.0	.48	.53	.41
3	.51	.72	1.5	1.8	3.2	17	27	1.2	1.1	.48	.58	.40
4	.49	.72	1.3	27	3.1	8.6	17	1.2	1.1	.43	.57	.42
5	.48	.73	1.2	31	2.9	5.3	10	1.2	1.0	.45	.58	.40
6	.44	.72	1.1	13	2.8	4.2	7.0	1.3	.94	.52	.60	.38
7	.52	.77	1.1	135	2.8	6.3	5.4	1.3	.93	.49	.59	.40
8	.63	.72	1.1	60	2.6	29	4.8	1.2	.92	.47	.70	.42
9	.54	.72	1.1	30	2.7	9.5	4.0	1.2	.48	.48	.56	.38
10	.48	.80	1.1	15	2.8	5.6	3.6	1.2	.88	.47	.57	.40
11	.57	.72	1.1	9.0	2.8	4.5	3.2	1.2	.85	.45	.55	.40
12	.56	1.3	1.1	7.0	2.8	3.9	2.9	1.2	.84	.46	.55	.41
13	.52	1.0	1.3	14	3.0	3.3	2.6	1.1	.84	.46	.60	.42
14	.54	1.0	1.2	12	3.0	3.0	2.4	1.1	.93	.46	.52	.46
15	.57	.95	1.2	16	2.8	2.8	2.3	1.1	.93	.49	.45	.42
16	.57	1.0	1.1	9.0	2.8	2.7	2.1	1.1	.91	.51	.45	.46
17	.56	2.1	1.2	14	2.7	2.6	2.0	1.0	.76	.51	.45	.46
18	.57	4.6	1.2	29	2.6	2.6	1.9	1.0	.71	.51	.51	.48
19	.57	2.3	1.2	31	2.8	2.7	1.8	1.0	.69	.50	.40	.47
20	.54	1.5	1.2	20	2.8	2.6	1.7	1.0	.67	.45	.41	.47
21	.56	1.3	1.5	14	2.6	2.6	1.6	1.1	.63	.47	.41	.48
22	.56	1.6	4.4	10	2.6	2.6	1.6	1.2	.61	.46	.46	.46
23	.63	3.2	2.1	8.4	2.6	2.6	1.5	1.2	.54	.47	.45	.50
24	.58	2.0	1.7	7.2	2.5	2.6	1.5	1.1	.52	.46	.42	.51
25	.55	1.6	1.5	6.4	2.4	2.6	1.4	1.1	.50	.52	.41	.52
26	.57	1.4	1.4	5.1	2.5	3.3	1.3	1.1	.50	.52	.40	.51
27	.57	1.3	2.8	3.6	2.5	7.0	1.2	.98	.48	.52	.41	.51
28	.54	1.3	3.9	3.3	2.5	14	1.2	.95	.46	.51	.40	.52
29	.60	1.3	2.4	3.4	-----	11	1.1	.97	.46	.53	.41	.50
30	.59	1.3	1.9	3.4	-----	42	1.1	.96	.46	.54	.42	.51
31	.61	-----	1.9	3.3	-----	21	-----	.98	-----	.54	.42	-----
TOTAL	17.02	40.05	54.7	545.6	77.8	317.7	253.2	34.74	22.74	15.08	15.32	13.49
MEAN	.55	1.34	1.76	17.6	2.78	10.2	8.44	1.12	.76	.49	.49	.45
MAX	.63	4.6	4.9	135	3.4	82	122	1.3	1.1	.54	.70	.52
MIN	.46	.65	1.1	1.8	2.4	2.6	1.1	.95	.46	.43	.40	.38
AC-FT	34	79	108	1,080	154	630	502	69	45	30	30	27

CAL YR 1973 TOTAL 2,653.19 MEAN 7.27 MAX 310 MIN .36 AC-FT 5,260
#TP YR 1974 TOTAL 1,407.44 MEAN 3.86 MAX 135 MIN .38 AC-FT 2,790

PEAK DISCHARGE (BASE, 100 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
1-7	2030	6.42	184	4-2	0545	6.54	225
3-2	0400	6.28	176				

11136400 WAGON ROAD CREEK NEAR STAUFFER, CALIF.

LOCATION.--Lat 34°42'32", long 119°12'25", in SE¼SE¼SE¼ sec.9, T.7 N., R.22 W., Ventura County, on left bank 50 ft (15 m) downstream from Park Canyon Creek, and 10 mi (16 km) east of Ozena Guard Station.

DRAINAGE AREA.--17.9 mi² (46.4 km²).

PERIOD OF RECORD.--July 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,500 ft (1,372 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 201 ft³/s (5.69 m³/s) Jan. 16 (gage height, 3.53 ft or 1.076 m); no flow Aug. 17-31, Sept. 7, 8, 11-30.

Period of record: Maximum discharge, 700 ft³/s (19.8 m³/s) Aug. 27, 1972 (gage height, 4.76 ft or 1.451 m, from floodmark); no flow many days in some years.

REMARKS.--Records fair. No diversion or regulation above station.

COOPERATION.--Sixteen discharge measurements furnished by Ventura County Flood Control District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.04	5.9	.07	3.6	2.1	4.3	.20	.12	.08	6.7	.01
2	.03	.03	.50	.06	3.0	9.1	9.0	.23	.11	.08	.04	.02
3	.04	.04	.40	.04	2.5	6.4	3.0	.23	.11	.07	.01	.01
4	.04	.01	.38	.50	2.0	2.0	.73	.23	.10	.06	5.0	.01
5	.03	.01	.39	.04	1.7	1.3	.78	.23	.11	.06	.11	.01
6	.03	.01	.34	.04	1.7	2.1	.61	.20	.12	.06	.01	.01
7	.04	.01	.34	.26	1.7	2.5	.57	.20	.11	.06	.01	0
8	.04	.02	.23	.14	1.5	4.1	.54	.23	.12	.06	.01	0
9	.04	.03	.23	.20	1.3	2.2	.66	.23	.12	.06	.01	.01
10	.04	.03	.20	.20	1.4	1.9	.59	.23	.12	.08	.01	.01
11	.04	.03	.17	.07	1.4	1.0	.56	.23	.12	.08	.01	0
12	.04	.04	.20	3.6	1.5	8.0	.44	.23	.14	.08	.01	0
13	.03	.04	.17	1.9	1.5	6.6	.44	.23	.08	.07	.01	0
14	.03	.04	.17	3.9	1.7	7.1	.39	.23	.08	.08	.01	0
15	.03	.04	.14	6.9	1.8	5.0	.63	.20	.07	.08	.01	0
16	.03	.04	.14	5.5	1.8	4.6	.63	.19	.08	.07	.01	0
17	.03	1.3	.10	7.6	2.0	4.1	.70	.19	.08	.07	0	0
18	.04	.12	.10	7.4	1.4	4.1	.63	.20	.09	.07	0	0
19	.04	.11	.10	4.0	1.2	3.6	.63	.16	.09	.06	0	0
20	.04	.10	.10	2.0	.78	2.7	.50	.16	.08	.06	0	0
21	.04	.14	.10	1.0	.85	2.0	.50	.15	.08	.06	0	0
22	.04	.23	.12	8.0	.82	1.8	.56	.15	.08	.06	0	0
23	.04	.14	.09	6.8	.80	1.4	.50	.16	.09	1.4	0	0
24	.04	.14	.10	6.0	.76	1.1	.44	.14	.09	.34	0	0
25	.04	.20	.10	5.6	1.0	1.3	.44	.14	.09	.02	0	0
26	.04	.17	.09	5.3	1.3	1.1	.44	.11	.08	.01	0	0
27	.04	.14	.10	5.0	1.3	1.0	.39	.11	.08	.01	0	0
28	.03	.17	.10	4.7	.86	1.1	.30	.11	.08	.01	0	0
29	.04	.14	.07	4.1	-----	.95	.26	.11	.08	.01	0	0
30	.03	.14	.09	4.1	-----	1.1	.23	.11	.08	.01	0	0
31	.04	-----	.07	3.6	-----	1.1	-----	.11	-----	.01	0	-----
TOTAL	1.13	3.70	11.33	492.82	43.17	140.35	30.39	5.63	2.98	3.33	11.97	.09
MEAN	.037	.12	.37	15.9	1.54	4.53	1.01	.18	.096	.11	.39	.003
MAX	.04	1.3	5.9	7.6	3.6	2.2	9.0	.23	.14	1.4	6.7	.02
MIN	.03	.01	.07	.04	.76	.95	.23	.11	.07	.01	0	0
AC-FT	2.2	7.3	22	978	86	278	60	11	5.7	6.6	24	.2

CAL YR 1973 TOTAL 1,093.44 MEAN 3.00 MAX 295 MIN .01 AC-FT 2,170
 WTR YR 1974 TOTAL 746.79 MEAN 2.05 MAX 76 MIN 0 AC-FT 1,480

PEAK DISCHARGE (BASE, 50 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
1-12	0845	3.28	129	7-23	1700	3.05	66
1-16	1530	3.53	201	8-1	1815	3.83	157
3-9	1600	3.03	75				

SANTA MARIA RIVER BASIN

11136480 REYES CREEK NEAR VENTUCOPA, CALIF.

LOCATION.--Lat 34°41'39", long 119°19'02", in SW¼NE¼SE¼ sec.21, T.7 N., R.23 W., Ventura County, on left bank 1,900 ft (579 m) upstream from mouth, and 3 mi (5 km) east of Ozena Guard Station.

DRAINAGE AREA.--4.62 mi² (11.97 km²).

PERIOD OF RECORD.--July 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,690 ft (1,120 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 13 ft³/s (0.37 m³/s) Jan. 19 (gage height, 1.82 ft or 0.555 m); minimum daily, 0.04 ft³/s (0.001 m³/s) Sept. 3.

Period of record: Maximum discharge, 138 ft³/s (3.91 m³/s) Feb. 11, 1973 (gage height, 3.20 ft or 0.975 m); no flow Oct. 1, 1972, Aug. 20, 1973.

REMARKS.--Records good. Slight diversion upstream for domestic use.

COOPERATION.--Twelve discharge measurements furnished by Ventura County Flood Control District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.24	.31	3.2	1.0	2.6	2.4	4.7	2.7	1.6	.56	.16	.05
2	.22	.33	1.7	1.0	2.5	8.1	4.7	2.7	1.5	.58	.17	.05
3	.34	.34	1.4	.96	2.4	5.3	5.0	2.7	1.5	.57	.17	.04
4	.34	.35	1.2	1.2	2.4	4.0	4.7	2.6	1.4	.56	.15	.05
5	.29	.37	1.1	1.2	2.3	3.6	4.6	2.6	1.4	.49	.15	.05
6	.29	.37	1.1	1.2	2.2	3.1	4.4	2.6	1.3	.48	.14	.05
7	.32	.37	.96	7.5	2.1	3.1	4.1	2.5	1.2	.44	.14	.05
8	.35	.40	.96	6.1	2.0	3.7	3.8	2.5	1.0	.33	.15	.06
9	.33	.43	.96	3.1	2.0	2.8	3.4	2.4	.90	.31	.16	.06
10	.34	.46	.91	2.5	1.9	2.9	3.2	2.3	.80	.32	.18	.05
11	.34	.49	.91	2.2	1.9	2.9	3.1	2.3	.78	.35	.17	.06
12	.30	.47	.91	3.8	1.7	3.3	2.9	2.2	.66	.31	.17	.06
13	.26	.51	.96	4.4	1.7	3.7	3.1	2.1	.70	.29	.18	.08
14	.26	.57	.95	3.6	1.7	3.7	3.3	2.1	.69	.26	.19	.09
15	.26	.70	.91	3.6	1.7	4.5	3.1	2.1	.68	.27	.20	.08
16	.24	.81	.96	6.2	1.8	4.8	3.1	2.0	.68	.22	.20	.08
17	.25	.81	.96	11	1.8	4.8	3.1	2.0	.68	.22	.20	.09
18	.26	1.5	.95	9.0	1.8	5.5	3.0	2.0	.68	.21	.17	.09
19	.26	1.0	.96	11	1.8	5.4	3.0	2.0	.68	.21	.18	.09
20	.27	.87	.96	8.4	1.9	4.9	3.0	2.0	.67	.20	.17	.08
21	.27	.86	.96	8.9	1.9	4.8	3.0	1.9	.66	.19	.16	.07
22	.28	.83	.96	6.3	1.9	4.6	2.9	1.9	.65	.19	.13	.06
23	.29	.86	1.0	5.0	1.9	4.3	2.9	1.8	.69	.22	.12	.05
24	.31	.86	1.0	3.9	1.9	3.9	2.9	1.8	.66	.24	.10	.06
25	.31	.86	1.0	3.6	2.0	3.6	2.9	1.7	.63	.20	.09	.06
26	.30	.85	1.1	3.4	2.0	3.4	2.8	1.7	.67	.19	.08	.06
27	.27	.81	1.1	3.0	2.0	4.2	2.8	1.7	.66	.17	.09	.05
28	.27	.81	1.1	2.8	2.1	4.2	2.8	1.6	.62	.18	.08	.05
29	.30	.81	1.1	2.8	-----	4.5	2.8	1.6	.62	.17	.08	.05
30	.31	.76	1.0	2.8	-----	4.9	2.8	1.6	.58	.18	.07	.06
31	.31	-----	1.0	2.8	-----	4.9	-----	1.6	-----	.17	.06	-----
TOTAL	9.09	19.78	34.24	134.26	55.9	129.8	101.9	65.3	25.94	9.28	4.46	1.88
MEAN	.29	.66	1.10	4.33	2.00	4.19	3.40	2.11	.86	.30	.14	.063
MAX	.35	1.5	3.2	11	2.6	8.1	5.0	2.7	1.6	.58	.20	.09
MIN	.24	.31	.91	.96	1.7	2.4	2.8	1.6	.58	.17	.06	.04
AC-FT	18	39	68	266	111	257	202	130	51	18	8.8	3.7

CAL YR 1973 TOTAL 1,027.64 MEAN 2.82 MAX 66 MIN 0 AC-FT 2,040

WTR YR 1974 TOTAL 591.83 MEAN 1.62 MAX 11 MIN .04 AC-FT 1,170

PEAK DISCHARGE (BASE, 20 FT³/S).--No peak above base.

11136800 CUYAMA RIVER BELOW BUCKHORN CANYON, NEAR SANTA MARIA, CALIF.

LOCATION.--Lat 35°01'19", long 120°13'39", in SW¼ sec.14, T.11 N., R.32 W., San Luis Obispo-Santa Barbara County line, on downstream side of second pier from right abutment of bridge on State Highway 166, 0.7 mi (1.1 km) downstream from Buckhorn Canyon, and 13 mi (21 km) northeast of Santa Maria.

DRAINAGE AREA.--886 mi² (2,295 km²).

PERIOD OF RECORD.--October 1903 to December 1905 (published as Santa Maria River near Santa Maria), October 1959 to current year. Monthly discharge only for October 1903 and July 1904 and yearly estimate for water year 1941 (incomplete), published in WSP 1315-B.

GAGE.--Water-stage recorder. Altitude of gage is 760 ft (232 m), from topographic map. Prior to October 1959, nonrecording gage at different site and datum.

AVERAGE DISCHARGE.--17 years, 22.3 ft³/s (0.632 m³/s), 16,160 acre-ft/yr (19.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 124 ft³/s (3.51 m³/s) Jan. 7 (gage height, 6.45 ft or 1.966 m), from rating curve extended above 36 ft³/s (1.02 m³/s); minimum daily, 0.05 ft³/s (0.001 m³/s) Aug. 22.

Period of record: Maximum discharge, 17,800 ft³/s (504 m³/s) Feb. 25, 1969 (gage height, 13.70 ft or 4.176 m), from rating curve extended above 4,900 ft³/s (139 m³/s) on basis of slope-area measurement at gage height 10.85 ft (3.307 m); no flow at times in most years.

REMARKS.--Records good. No regulation above station. Pumping from wells along stream for irrigation in Upper Cuyama Valley.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.29	.25	9.7	.49	3.8	8.3	15	5.0	2.7	1.3	.29	.38
2	.25	.25	2.2	.43	3.8	58	42	5.0	2.8	1.3	.29	.38
3	.25	.25	.87	.43	3.8	73	19	5.0	2.8	1.3	.29	.38
4	.25	.25	.62	8.8	3.3	49	18	5.0	2.8	1.3	.29	.33
5	.25	.25	.55	13	3.0	28	15	5.0	2.6	1.3	.33	.29
6	.25	.25	.43	16	3.0	17	12	5.0	2.4	1.3	.33	.29
7	.29	.25	.38	101	2.8	12	9.7	4.3	2.0	1.3	.33	.29
8	.29	.25	.38	62	2.8	29	8.8	4.3	2.0	1.3	.43	.29
9	.25	.25	.38	36	2.8	25	8.8	3.8	2.2	1.3	.49	.29
10	.25	.21	.38	29	2.8	22	8.3	4.0	2.0	1.3	.62	.29
11	.25	.21	.38	15	2.8	17	7.3	4.0	1.9	1.4	.49	.29
12	.25	.78	.38	30	2.6	15	6.8	4.0	1.8	1.3	.55	.33
13	.25	.29	.38	27	2.6	11	6.4	4.0	1.7	1.2	.62	.29
14	.25	.25	.38	37	2.6	8.8	6.0	4.0	1.7	1.2	.62	.29
15	.25	.21	.38	28	2.4	7.8	5.6	3.8	1.6	1.1	.62	.33
16	.25	.25	.38	18	2.4	7.3	5.6	3.5	1.9	.87	.55	.33
17	.25	2.2	.38	46	2.6	6.4	5.6	3.3	1.9	.87	.29	.33
18	.25	6.0	.38	60	2.4	6.4	5.3	3.5	1.9	.78	.11	.29
19	.25	.49	.38	64	2.4	6.0	5.3	3.8	1.8	.55	.11	.33
20	.25	.43	.38	37	2.4	5.6	5.6	3.8	1.7	.49	.13	.33
21	.25	.38	.49	27	2.2	7.8	5.6	3.3	1.6	.43	.13	.29
22	.29	.97	.55	18	2.0	7.8	5.3	3.3	1.5	.43	.05	.29
23	.29	1.4	.43	16	2.0	6.4	5.6	3.0	1.4	.38	.11	.25
24	.25	.62	.38	15	2.4	5.6	6.4	3.0	1.4	.29	.09	.25
25	.25	.55	.38	14	2.4	5.6	5.6	2.8	1.3	.33	.09	.29
26	.25	.55	.38	12	2.4	6.8	5.6	2.8	1.2	.25	.09	.29
27	.21	.55	.49	11	2.4	11	5.3	2.6	1.1	.25	.29	.29
28	.21	.55	.43	9.2	2.8	10	5.3	2.6	1.1	.29	.33	.25
29	.21	.55	.43	7.7	-----	8.3	5.0	2.7	1.1	.18	.33	.25
30	.21	.55	.43	6.3	-----	12	5.0	2.6	1.2	.49	.38	.25
31	.25	-----	.43	4.8	-----	10	-----	2.6	-----	.43	.38	-----
TOTAL	7.79	20.24	24.51	770.15	75.7	503.9	270.8	115.4	55.1	26.51	10.05	9.05
MEAN	.25	.67	.79	24.8	2.70	16.3	9.03	3.72	1.84	.86	.32	.30
MAX	.29	6.0	9.7	101	3.8	73	42	5.0	2.8	1.4	.62	.38
MIN	.21	.21	.38	.43	2.0	5.6	5.0	2.6	1.1	.18	.05	.25
AC-FT	15	40	49	1,530	150	999	537	229	109	53	20	18
CAL YR 1973	TOTAL 6,619.39	MEAN 18.1	MAX 1,380	MIN .17	AC-FT 13,130							
WTR YR 1974	TOTAL 1,889.20	MEAN 5.18	MAX 101	MIN .05	AC-FT 3,750							

PEAK DISCHARGE (BASE, 200 FT³/S).--No peak above base.

SANTA MARIA RIVER BASIN

11137400 ALAMO CREEK NEAR NIPOMO, CALIF.

LOCATION.--Lat 35°02'55", long 120°18'05", in Huasna Grant, San Luis Obispo County, on right bank 3.2 mi (5.1 km) upstream from mouth, and 10 mi (16 km) east of Nipomo.

DRAINAGE AREA.--83.3 mi² (215.7 km²).

PERIOD OF RECORD.--March 1959 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 650 ft (198 m), from topographic map. Prior to Oct. 1, 1966, at datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE.--15 years, 8.56 ft³/s (0.242 m³/s), 6,200 acre-ft/yr (7.64 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 640 ft³/s (18.1 m³/s) Jan. 7 (gage height, 5.54 ft or 1.689 m); no flow for several months.

Period of record: Maximum discharge, 9,020 ft³/s (255 m³/s) Jan. 25, 1969 (gage height, 10.51 ft or 3.203 m), from rating curve extended above 3,100 ft³/s (87.8 m³/s) on basis of slope-area measurement at gage height 10.30 ft (3.139 m); no flow for all or part of each year.

REMARKS.--Records good. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	3.1	1.4	11	.80				
2				0	2.7	62	55	.70				
3				0	2.2	225	41	.60				
4				0	2.2	79	28	.60				
5				0	2.0	42	21	.60				
6				0	1.9	33	15	.60				
7				227	1.8	27	12	.43				
8				170	1.7	33	10	.36				
9				140	1.8	28	8.9	.24				
10				120	2.4	20	7.8	.14				
11				100	2.8	18	6.7	.11				
12				75	2.8	15	5.6	.07				
13				52	2.6	13	4.4	.06				
14				22	2.6	11	3.7	.03				
15				15	2.4	9.1	3.1	.01				
16				12	2.4	7.3	2.9	0				
17				34	2.2	6.1	2.6	0				
18				45	2.0	5.5	2.4	0				
19				33	2.1	5.1	2.3	0				
20				27	1.7	4.2	2.2	0				
21				20	1.3	3.5	2.1	0				
22				17	1.3	3.5	2.0	0				
23				15	1.4	3.2	1.9	0				
24				12	1.2	2.2	1.8	0				
25				11	.90	2.5	1.6	0				
26				9.1	.81	2.5	1.6	0				
27				6.7	.56	3.8	1.6	0				
28				6.1	.49	5.8	1.6	0				
29				5.2	-----	6.8	1.2	0				
30				4.5	-----	8.6	1.2	0				
31		-----		3.5	-----	11	-----	0	-----			-----
TOTAL	0	0	0	1,182.1	53.36	698.1	262.2	5.35	0	0	0	0
MEAN	0	0	0	38.1	1.91	22.5	8.74	.17	0	0	0	0
MAX	0	0	0	227	3.1	225	55	.80	0	0	0	0
MIN	0	0	0	0	.49	1.4	1.2	0	0	0	0	0
AC-FT	0	0	0	2,340	106	1,380	520	11	0	0	0	0

CAL YR 1973 TOTAL 3,862.67 MEAN 10.6 MAX 450 MIN 0 AC-FT 7,660
 WTR YR 1974 TOTAL 2,201.11 MEAN 6.03 MAX 227 MIN 0 AC-FT 4,370

PEAK DISCHARGE (BASE, 50 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
1-7	0815	5.54	640	3-3	1045	5.32	456
1-17	1915	4.61	52	4-2	1100	4.52	69

11137900 HUASNA RIVER NEAR ARROYO GRANDE, CALIF.

LOCATION.--Lat 35°04'40", long 120°22'15", in Huasna Grant, San Luis Obispo County, on right bank 300 ft (91 m) downstream from Huasna Creek, and 12 mi (19 km) southeast of Arroyo Grande.

DRAINAGE AREA.--103 mi² (267 km²).

PERIOD OF RECORD.--June 1959 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 640 ft (195 m), from topographic map.

AVERAGE DISCHARGE.--15 years, 19.2 ft³/s (0.544 m³/s), 13,910 acre-ft/yr (17.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 730 ft³/s (20.7 m³/s) Jan. 7 (gage height, 5.38 ft or 1.640 m); minimum daily, 0.03 ft³/s (0.001 m³/s) Sept. 12.

Period of record: Maximum discharge, 21,000 ft³/s (595 m³/s) Jan. 25, 1969 (gage height, 15.90 ft or 4.846 m), from rating curve extended above 1,300 ft³/s (36.8 m³/s) on basis of slope-area measurement of maximum flow; no flow many days in most years.

REMARKS.--Records fair. No regulation above station. Some diversions by pumping for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.42	.66	4.3	1.1	14	11	42	8.6	1.4	1.7	.37	.15
2	.43	.66	.98	.95	13	131	128	8.2	1.4	1.9	.67	.15
3	.43	.53	.73	.95	12	151	65	7.8	1.5	2.1	.61	.08
4	.44	.53	.75	8.4	12	78	46	7.4	2.0	1.8	.42	.31
5	.66	.53	.80	4.4	12	52	36	7.0	1.8	1.3	.34	.25
6	.18	.41	.53	10	11	40	31	6.8	1.3	.62	.35	.25
7	.25	.50	.53	491	10	41	27	6.7	1.1	.62	.42	.15
8	.32	.53	.53	205	9.9	64	24	6.2	1.1	.62	.40	.31
9	.41	.41	.53	77	9.9	45	23	5.9	1.2	.45	.50	.20
10	.41	.25	.53	50	9.9	37	22	5.5	1.4	.37	.49	.20
11	.41	.32	.53	39	9.9	34	21	5.4	1.5	.53	.38	.06
12	.41	.32	.51	78	9.4	31	20	4.9	1.9	.93	.37	.03
13	.53	.13	.54	75	9.4	29	18	4.6	2.2	.71	1.1	.11
14	.53	.13	.60	48	9.0	27	17	4.6	2.2	.71	.70	.08
15	.53	.18	.53	36	9.0	25	16	4.3	2.2	.71	.45	.11
16	.66	.32	.53	34	8.3	23	15	4.1	2.4	.71	.45	.15
17	.53	.95	.53	88	8.1	21	14	3.6	2.4	.31	.93	.25
18	.32	.53	.53	84	7.9	20	13	3.1	2.4	.37	.91	.37
19	.18	.41	.53	59	7.9	19	13	2.9	2.3	.37	.92	.37
20	.18	.32	.53	47	7.9	18	13	2.5	2.1	.53	.40	.45
21	.18	.41	.71	38	7.0	16	12	2.3	2.0	.45	.15	.53
22	.53	.80	.92	32	6.8	16	12	2.1	2.1	.71	.28	.82
23	.80	.53	.74	29	6.6	15	12	2.0	2.1	.62	.17	.71
24	.66	.53	.66	26	6.3	14	11	1.9	2.1	.45	.13	.31
25	.66	.53	.66	25	6.2	14	11	1.9	2.0	.31	.11	.31
26	.66	.53	.66	23	5.9	15	10	1.5	1.7	.24	.08	.62
27	.66	.53	.83	20	5.9	18	10	1.5	1.8	.20	.08	.71
28	.66	.53	.74	18	5.9	26	9.8	1.5	1.7	.29	.08	1.1
29	.66	.52	.66	18	-----	30	9.4	1.6	1.6	.41	.25	.93
30	.66	.41	.66	17	-----	39	9.0	1.6	1.6	.53	.37	1.1
31	.66	-----	.80	15	-----	45	-----	1.6	-----	.45	.37	-----
TOTAL	15.02	13.94	23.61	1,697.80	251.1	1,145	710.2	129.6	54.5	22.02	13.25	11.17
MEAN	.48	.46	.76	54.8	8.97	36.9	23.7	4.18	1.82	.71	.43	.37
MAX	.80	.95	4.3	491	14	151	128	8.6	2.4	2.1	1.1	1.1
MIN	.18	.13	.51	.95	5.9	11	9.0	1.5	1.1	.20	.08	.03
AC-FT	30	28	47	3,370	498	2,270	1,410	257	108	44	26	22
CAL YR 1973	TOTAL 7,899.21	MEAN 21.6	MAX 880	MIN .05	AC-FT 15,670							
WTR YR 1974	TOTAL 4,087.21	MEAN 11.2	MAX 491	MIN .03	AC-FT 8,110							

PEAK DISCHARGE (BASE, 40 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
1-7	1015	5.38	730	3-8	1015	3.48	78
1-12	1845	3.75	120	3-30	2130	3.22	53
1-17	1600	3.72	116	4-2	0400	3.84	169
3-3	1115	4.15	218				

SANTA MARIA RIVER BASIN

11138100 CUYAMA RIVER BELOW TWITCHELL DAM, CALIF.

LOCATION.--Lat 34°56'40", long 120°17'30", in Suey Grant, Santa Barbara County, on left bank 3.5 mi (5.6 km) upstream from mouth, 4 mi (6 km) northeast of Garey, and 4.4 mi (7.1 km) downstream from Twitchell Dam.

DRAINAGE AREA.--1,132 mi² (2,932 km²).

PERIOD OF RECORD.--October 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 401.94 ft (122.511 m) above mean sea level (Bureau of Reclamation bench mark).

EXTREMES.--Current year: Maximum discharge, 233 ft³/s (6.60 m³/s) Oct. 7, 8 (gage height, 3.72 ft or 1.134 m); no flow Aug. 15 to Sept. 30.

Period of record: Maximum discharge, 9,100 ft³/s (258 m³/s) June 13, 1973 (gage height, 8.22 ft or 2.505 m), result of sluicing at dam; no flow at times in each year.

REMARKS.--Records good. Flow regulated since February 1959 by Twitchell Reservoir, capacity 240,000 acre-ft (296 hm³). Controlled releases are for ground-water recharge in Santa Maria Valley. Some pumping from wells along stream for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	220	3.4	21	10	2.1	2.3	4.9	132	146	158	.20	
2	220	3.7	34	10	2.3	11	19	133	146	161	.47	
3	220	3.9	23	9.9	2.2	6.6	8.4	135	143	161	.36	
4	221	3.9	17	21	2.1	3.9	5.8	133	143	164	.15	
5	225	3.9	13	22	2.0	3.0	4.8	135	138	167	.07	
6	225	3.9	12	7.9	2.1	2.7	4.0	137	140	167	.13	
7	228	4.5	11	9.4	2.1	3.1	3.5	135	140	167	.18	
8	232	4.8	10	7.9	2.0	5.8	3.2	137	138	164	.09	
9	225	5.2	10	5.8	1.9	3.8	3.1	138	138	167	.09	
10	202	5.2	9.2	4.8	2.1	3.0	3.0	139	138	164	.09	
11	73	5.2	9.2	3.8	2.1	2.7	2.8	138	135	161	.18	
12	30	13	8.7	5.4	1.9	2.5	2.6	141	138	161	.10	
13	18	18	9.7	5.1	1.9	2.4	2.4	143	138	158	.04	
14	12	14	9.2	4.3	1.9	2.3	2.3	141	138	155	.01	
15	9.3	12	9.2	3.8	1.8	2.2	2.1	144	138	152	0	
16	7.9	12	9.2	4.1	1.7	2.1	2.2	145	135	149	0	
17	6.6	18	8.7	7.8	1.7	2.1	2.1	147	138	143	0	
18	5.8	40	9.7	6.5	1.7	2.1	2.2	146	138	140	0	
19	5.5	29	8.2	4.9	2.0	2.2	2.1	147	138	138	0	
20	5.2	19	8.2	4.2	2.0	1.7	1.9	150	138	135	0	
21	4.5	14	8.7	3.9	1.9	1.5	1.8	149	138	132	0	
22	5.2	14	12	3.2	1.6	1.3	1.7	150	138	125	0	
23	6.2	18	13	2.8	1.6	1.4	36	151	140	115	0	
24	7.9	16	12	2.9	1.5	1.3	130	149	143	42	0	
25	7.9	13	9.7	2.6	1.3	1.7	130	150	143	15	0	
26	5.2	12	8.7	2.6	1.3	1.8	130	150	146	8.2	0	
27	4.2	11	10	2.3	1.3	2.7	130	152	146	5.1	0	
28	3.9	10	12	2.2	1.3	2.8	132	150	152	3.9	0	
29	3.7	9.8	12	2.3	-----	2.5	132	150	155	2.6	0	
30	3.9	9.2	11	2.3	-----	3.2	133	149	155	1.8	0	
31	3.7	-----	11	2.3	-----	3.1	-----	146	-----	1.1	0	-----
TOTAL	2,447.6	349.6	370.3	188.0	51.4	90.8	1,038.9	4,442	4,240	3,583.7	2.16	0
MEAN	79.0	11.7	11.9	6.06	1.84	2.93	34.6	143	141	116	.070	0
MAX	232	40	34	22	2.3	11	133	152	155	167	.47	0
MIN	3.7	3.4	8.2	2.2	1.3	1.3	1.7	132	135	1.1	0	0
AC-FT	4,850	693	734	373	102	180	2,060	8,810	8,410	7,110	4.3	0

CAL YR 1973 TOTAL 24,436.08 MEAN 66.9 MAX 602 MIN 0 AC-FT 48,470
WTR YR 1974 TOTAL 16,804.46 MEAN 46.0 MAX 232 MIN 0 AC-FT 33,330

11138500 SISQUOC RIVER NEAR SISQUOC, CALIF.

LOCATION.--Lat 34°50'23", long 120°10'02", in Sisquoc Grant, Santa Barbara County, on left bank 2.6 mi (4.2 km) upstream from La Brea Creek, and 7 mi (11 km) east of Sisquoc.

DRAINAGE AREA.--281 mi² (728 km²).

PERIOD OF RECORD.--October 1943 to current year. October 1929 to September 1933, at site 0.2 mi (0.3 km) downstream; low-flow records not equivalent owing to diversion immediately upstream. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 624.30 ft (190.287 m) above mean sea level (Corps of Engineers bench mark). See WSP 1735 for history of changes prior to Aug. 24, 1951.

AVERAGE DISCHARGE.--31 years, 41.6 ft³/s (1.178 m³/s), 30,140 acre-ft/yr (37.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,480 ft³/s (41.9 m³/s) Jan. 7 (gage height, 4.51 ft or 1.375 m); minimum daily, 0.80 ft³/s (0.023 m³/s) Oct. 20.

Period of record: Maximum discharge, 23,200 ft³/s (657 m³/s) Dec. 6, 1966 (gage height, 15.75 ft or 4.801 m), from rating curve extended above 1,700 ft³/s (48.1 m³/s) on basis of slope-area measurements at gage heights 10.08 ft (3.072 m) and 15.75 ft (4.801 m); no flow Nov. 11-18, 1967.

Flood of Mar. 2, 1938, 11,000 ft³/s (312 m³/s), gage height, 8.1 ft (2.47 m), from high-water mark in gage well, at site in use 1929-33, from rating curve extended above 2,800 ft³/s (79.3 m³/s).

REMARKS.--Records poor. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	1.4	100	13	41	150	90	22	7.1	2.1	1.6	1.3
2	.92	1.2	30	12	40	500	153	22	7.1	2.0	1.6	1.3
3	.95	1.1	10	30	38	100	123	22	6.7	2.0	1.6	1.3
4	.95	1.1	9.0	90	37	80	83	22	6.7	2.0	2.5	1.3
5	1.0	1.1	8.0	100	36	70	68	22	6.3	2.0	6.0	1.3
6	1.0	1.1	7.0	90	34	60	57	21	5.5	2.0	5.0	1.3
7	1.0	1.1	6.6	1,100	33	100	53	20	5.1	1.9	4.0	1.3
8	1.0	1.1	6.4	300	32	140	48	19	4.8	1.9	3.0	1.3
9	1.0	1.1	6.2	90	32	100	47	18	4.5	1.9	2.5	1.3
10	1.0	1.1	6.0	80	31	80	48	17	4.5	1.9	2.1	1.3
11	1.0	1.1	6.0	150	30	75	42	16	4.8	1.8	1.9	1.4
12	1.0	7.5	6.0	80	30	70	39	15	5.1	1.8	1.8	1.4
13	.98	4.8	6.0	60	29	65	35	15	5.1	1.8	1.7	1.4
14	.90	5.1	7.0	50	27	60	32	15	5.1	1.8	1.7	1.4
15	.90	5.5	6.2	40	27	55	30	14	4.8	1.8	1.6	1.4
16	.88	7.1	5.8	330	26	50	29	13	4.5	1.8	1.6	1.4
17	.82	7.5	5.8	278	26	48	28	13	4.2	1.7	1.5	1.4
18	.82	8.0	5.8	239	25	46	27	13	4.2	1.7	1.5	1.4
19	.82	7.0	5.8	183	27	48	27	13	4.0	1.7	1.5	1.4
20	.80	6.0	5.8	146	27	46	26	13	4.2	1.7	1.4	1.4
21	.90	7.0	6.4	114	26	40	24	12	4.0	1.7	1.4	1.4
22	1.0	6.5	7.0	92	25	38	23	11	3.8	1.7	1.4	1.4
23	1.5	6.0	6.4	81	25	36	23	11	3.7	1.7	1.4	1.4
24	1.5	5.8	6.0	71	25	39	26	10	3.4	1.6	1.3	1.4
25	1.8	5.5	5.8	65	25	40	25	9.2	3.1	1.6	1.3	1.4
26	2.0	5.5	5.8	59	25	44	24	8.4	2.8	1.6	1.3	1.5
27	2.0	5.4	6.6	55	30	50	23	7.5	2.6	1.6	1.3	1.5
28	1.8	5.2	7.0	50	40	58	22	7.6	2.4	1.6	1.3	1.5
29	1.6	5.2	7.0	47	-----	50	22	7.9	2.2	1.6	1.3	1.5
30	1.8	5.2	6.8	44	-----	90	22	7.9	2.1	1.6	1.3	1.5
31	1.8	-----	6.6	42	-----	60	-----	7.5	-----	1.6	1.3	-----
TOTAL	36.44	128.3	320.8	4,181	849	2,488	1,319	445.0	134.4	55.2	60.7	41.5
MEAN	1.18	4.28	10.3	135	30.3	80.3	44.0	14.4	4.48	1.78	1.96	1.38
MAX	2.0	8.0	100	1,100	41	500	153	22	7.1	2.1	6.0	1.5
MIN	.80	1.1	5.8	12	25	36	22	7.5	2.1	1.6	1.3	1.3
AC-FT	72	254	636	8,290	1,680	4,930	2,620	883	267	109	120	82

CAL YR 1973 TOTAL 23,377.64 MEAN 64.0 MAX 2,140 MIN .80 AC-FT 46,370
WTR YR 1974 TOTAL 10,059.34 MEAN 27.6 MAX 1,100 MIN .80 AC-FT 19,950

PEAK DISCHARGE (BASE, 100 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-1	1800	3.91	1,060	3-2	1030	2.97	290
1-7	unknown	4.51	1,480	3-8	1500	2.50	132
1-16	1730	3.24	483	4-2	1130	2.71	176

SANTA MARIA RIVER BASIN

11139500 TEPUSQUET CREEK NEAR SISQUOC, CALIF.

LOCATION.--Lat 34°52'21", long 120°14'37", in NE¼ sec.9, T.9 N., R.32 W., Santa Barbara County, on downstream wingwall of right bridge abutment, 1.1 mi (1.8 km) upstream from mouth, and 3 mi (5 km) east of Sisquoc.

DRAINAGE AREA.--28.7 mi² (74.3 km²).

PERIOD OF RECORD.--October 1943 to current year.

GAGE.--Water-stage recorder. Concrete control since July 1957. Altitude of gage is 500 ft (152 m), from topographic map. Prior to Dec. 9, 1948, at datum 0.9 ft (0.27 m) higher.

AVERAGE DISCHARGE.--31 years, 1.58 ft³/s (0.0447 m³/s), 1,140 acre-ft/yr (1.41 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 188 ft³/s (5.32 m³/s) Apr. 2 (gage height, 3.69 ft or 1.125 m); minimum daily, 0.01 ft³/s (<0.001 m³/s) Oct. 10, Nov. 13.

Period of record: Maximum discharge, 788 ft³/s (22.3 m³/s) Dec. 6, 1966 (gage height, 5.48 ft or 1.670 m), from rating curve extended above 220 ft³/s (6.23 m³/s) on basis of computation of maximum flow at contracted opening; no flow at times in some years.

REMARKS.--Records poor. No regulation above station. Some diversion by pumping from wells along stream to irrigate about 100 acres (405,000 m²) above gage.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.14	.05	1.3	.25	1.6	5.7	18	2.4	.79	1.0	.35	.15
2	.19	.06	.06	.19	1.7	28	111	2.4	.77	1.0	.35	.16
3	.14	.05	.06	.19	2.0	30	26	2.4	.74	.81	.35	.15
4	.05	.05	.05	4.4	2.1	20	8.2	1.9	.62	.61	.35	.11
5	.09	.05	.05	1.9	2.3	11	3.7	1.1	.53	.71	.35	.11
6	.09	.05	.05	2.7	2.3	5.7	2.4	.74	.50	.68	.35	.05
7	.19	.05	.05	24	2.2	8.2	1.1	.59	.54	.76	.35	.06
8	.19	.05	.04	14	2.0	21	.74	.59	.66	.68	.35	.09
9	.09	.05	.05	8.0	2.0	10	.74	.59	.66	.61	.45	.06
10	.06	.04	.04	4.5	1.7	9.1	.59	.45	.69	.67	.45	.08
11	.06	.03	.05	2.6	1.6	6.4	.35	.45	.61	.53	.45	.06
12	.05	.14	.05	6.4	1.5	4.4	.25	.59	.60	.51	.45	.08
13	.04	.01	.06	5.4	1.5	2.9	.35	.45	.58	.45	.45	.05
14	.03	.02	.05	7.6	1.4	2.3	.59	.35	.58	.52	.45	.08
15	.06	.02	.05	6.0	1.5	1.9	.74	.35	.83	.49	.35	.09
16	.05	.06	.05	4.5	1.4	2.3	.74	.25	.77	.53	.35	.10
17	.03	.14	.06	3.7	1.2	1.9	.90	.35	.70	.50	.25	.12
18	.03	.19	.06	11	1.4	2.3	.90	.35	.76	.59	.19	.13
19	.01	.05	.06	14	1.5	2.0	1.1	.35	.72	.59	.25	.16
20	.03	.05	.05	13	1.0	2.3	1.1	.35	.70	.45	.25	.13
21	.05	.05	.09	10	1.1	2.0	1.3	.35	.65	.45	.25	.10
22	.05	.25	.14	7.8	.97	2.4	1.3	.35	.88	.59	.25	.06
23	.06	.19	.09	6.8	.95	2.3	1.6	.59	.82	.59	.25	.08
24	.03	.19	.06	5.5	.86	1.9	1.3	.45	.78	.45	.19	.11
25	.03	.14	.09	4.5	.98	2.5	1.6	.45	.78	.45	.14	.14
26	.03	.09	.09	3.7	1.1	2.4	2.4	.45	.79	.45	.14	.21
27	.02	.09	.35	3.1	1.0	5.7	2.4	.45	.79	.45	.19	.19
28	.02	.19	.19	2.5	1.2	7.3	3.2	.74	.78	.35	.15	.16
29	.02	.14	.14	2.1	-----	6.4	2.7	.71	.72	.35	.15	.13
30	.02	.19	.14	1.7	-----	13	2.4	.71	.72	.35	.17	.09
31	.02	-----	.14	1.4	-----	13	-----	.66	-----	.35	.13	-----
TOTAL	1.97	2.73	3.81	183.43	42.06	236.3	199.69	22.91	21.31	17.52	9.15	3.29
MEAN	.064	.091	.12	5.92	1.50	7.62	6.66	.74	.71	.57	.30	.11
MAX	.19	.25	1.3	24	2.3	30	111	2.4	.97	1.0	.45	.21
MIN	.01	.01	.04	.19	.86	1.9	.25	.25	.50	.35	.13	.05
AC-FT	3.9	5.4	7.6	364	83	469	396	45	42	35	18	6.5

CAL YR 1973 TOTAL 1,470.06 MEAN 4.03 MAX 252 MIN .01 AC-FT 2,920
WTR YR 1974 TOTAL 744.17 MEAN 2.04 MAX 111 MIN .01 AC-FT 1,480

PEAK DISCHARGE (BASE, 50 FT³/S).--Jan. 7 (0315) 78 ft³/s (2.93 ft); Apr. 2 (0415) 188 ft³/s (3.69 ft).

1114000 SISQUOC RIVER NEAR GAREY, CALIF.

LOCATION.--Lat 34°53'38", long 120°18'20", in SW¼ sec.36, T.10 N., R.33 W., Santa Barbara County, on downstream side of county road bridge, 0.6 mi (1.0 km) northeast of Garey, and 3.7 mi (6.0 km) downstream from Tepusquet Creek.

DRAINAGE AREA.--471 mi² (1,220 km²).

PERIOD OF RECORD.--October 1940 to current year. Records for water year 1941 incomplete, yearly estimate and monthly discharge only for October 1940 and January 1941, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 354.8 ft (108.14 m) above mean sea level (Santa Barbara County bench mark). See WSP 1735 for history of changes prior to Oct. 1, 1959. Oct. 1, 1959, to Dec. 30, 1965, at datum 6.00 ft (1.829 m) higher. Since Oct. 1, 1959, supplementary gage near left bank at same datum.

AVERAGE DISCHARGE.--34 years, 40.4 ft³/s (1.144 m³/s), 29,270 acre-ft/yr (36.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 988 ft³/s (28.0 m³/s) Jan. 7 (gage height, 5.99 ft or 1.826 m); no flow most of year.

Period of record: Maximum discharge, 24,500 ft³/s (694 m³/s) Jan. 25, 1969 (gage height, 13.00 ft or 3.962 m); maximum gage height, 13.50 ft (4.115 m) Dec. 6, 1966; no flow for several months in each year.

REMARKS.--Records poor. No regulation above station. Pumping from wells along stream for irrigation of about 7,000 acres (28.3 km²) above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	0	.24	34					
2				0	0	62	214					
3				.40	0	101	138					
4				1.8	0	65	110					
5				10	0	33	72					
6				100	0	13	40					
7				600	0	13	25					
8				247	0	60	15					
9				30	.17	51	10					
10				12	.13	34	6.0					
11				1.7	0	34	4.1					
12				1.2	0	31	2.5					
13				2.0	0	26	1.4					
14				3.0	0	17	.89					
15				9.1	0	13	.60					
16				2.0	0	10	.51					
17				84	0	8.0	.41					
18				95	0	7.0	.31					
19				84	0	6.0	.34					
20				63	0	5.0	.27					
21				45	0	4.5	.17					
22				23	0	4.0	.10					
23				9.5	0	4.0	0					
24				6.1	0	4.0	0					
25				3.6	0	4.0	0					
26				1.5	0	5.5	0					
27				.70	.01	12	0					
28				.20	.17	15	0					
29				.10	-----	10	0					
30				0	-----	33	0					
31		-----		0	-----	33	-----		-----			-----
TOTAL	0	0	0	1,435.90	.48	718.24	675.60	0	0	0	0	0
MEAN	0	0	0	46.3	.017	23.2	22.5	0	0	0	0	0
MAX	0	0	0	600	.17	101	214	0	0	0	0	0
MIN	0	0	0	0	0	.24	0	0	0	0	0	0
AC-FT	0	0	0	2,850	1.0	1,420	1,340	0	0	0	0	0
CAL YR 1973	TOTAL	18,300.10	MEAN	50.1	MAX	3,650	MIN	0	AC-FT	36,300		
WTR YR 1974	TOTAL	2,830.22	MEAN	7.75	MAX	600	MIN	0	AC-FT	5,610		

DATE	TIME	PEAK DISCHARGE (BASE, 100 FT ³ /S)	DATE	TIME	DISCHARGE
1-7	2315	5.99	4-2	1315	4.91
3-2	1930	5.75			275

SANTA MARIA RIVER BASIN

11140600 BRADLEY DITCH NEAR DONOVAN ROAD, AT SANTA MARIA, CALIF.

LOCATION.--Lat 34°58'00", long 120°25'00", in NE¼NE¼NE¼ sec.11, T.10 N., R.34 W., Santa Barbara County, on left bank 250 ft (76 m) south of Donovan Road, and 0.2 mi (0.3 km) east of U.S. Highway 101, Santa Maria.

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Concrete-lined channel. Altitude of gage is 225 ft (69 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 106 ft³/s (3.00 m³/s) Jan. 17 (gage height, 3.28 ft or 1.000 m), from rating curve based on computation of flow in concrete-lined channel; no flow for many days.

Period of record: Maximum discharge, 251 ft³/s (7.11 m³/s) Jan. 18, 1973 (gage height, 4.52 ft or 1.378 m), from rating curve based on computation of flow in concrete-lined channel; no flow for several days in each year.

REMARKS.--Records fair except those for period of no gage-height record, which are poor. Runoff affected by urbanization.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.64	0	9.0	.25	.10	21	13	.06	.14	.88	1.2	.14
2	.04	0	0	0	.10	13	13	0	.01	1.3	.97	.23
3	.76	0	0	.24	.10	.67	.01	.01	.37	1.3	1.2	.21
4	.27	0	0	.25	.10	.02	0	.30	.28	.83	1.2	.28
5	.10	0	0	3.8	.10	0	0	.20	.13	1.3	1.7	.35
6	.04	0	0	3.4	.10	0	0	.03	.10	1.5	1.6	.18
7	.07	.06	0	22	.10	5.0	0	.01	.92	.43	1.4	.41
8	.09	.63	0	1.3	.10	3.0	.02	.01	.27	.81	1.7	1.7
9	.04	.03	0	.03	.10	.01	.04	0	.28	1.1	1.2	1.1
10	.04	.05	0	.01	.10	0	.03	.09	.38	.82	1.1	.87
11	.03	.01	.34	.04	.19	0	.27	0	.29	1.1	.11	.11
12	.05	2.4	1.0	8.1	.10	.05	.41	.09	.68	1.0	.94	.20
13	.07	0	.44	.43	.10	0	.14	.04	.44	.92	1.5	.21
14	.03	0	.01	.24	.10	.17	0	.13	.72	.64	1.3	.34
15	0	0	0	.25	.10	.20	.09	.19	.37	.55	1.4	.05
16	0	2.7	0	5.0	.10	.21	.16	.22	.09	.75	1.3	0
17	0	5.6	0	24	.10	.04	.26	.28	.64	1.2	.55	.09
18	0	1.1	0	.94	.10	.09	.34	.26	.54	1.1	.64	.24
19	0	0	0	0	.10	.32	.27	.19	.56	1.1	.29	.27
20	0	0	.02	.02	.10	.27	.01	.41	.41	.95	.59	.14
21	0	0	1.3	0	.10	.03	.03	.21	.50	.64	.87	.09
22	0	2.2	.20	0	.10	.02	0	.38	.46	1.2	1.4	.30
23	0	.05	0	0	.10	.03	.02	.62	.53	.98	1.5	.39
24	0	0	0	0	.10	.24	.20	.15	.54	.73	1.2	.14
25	0	0	0	0	.10	.21	.27	.44	.67	1.1	.30	.04
26	0	0	.03	.10	.10	.23	.06	.19	1.5	1.7	.86	.03
27	0	0	6.2	.10	.35	.99	.03	.14	.72	1.6	.23	.08
28	0	0	.05	.10	.79	1.6	.01	.22	.79	1.1	.79	.09
29	0	.02	.01	.10	-----	0	.01	.49	.87	1.2	.87	.06
30	0	.09	0	.10	-----	6.0	.02	.94	.66	1.7	1.0	0
31	0	-----	.07	.10	-----	0	-----	.55	-----	1.6	.66	-----
TOTAL	1.42	14.35	18.75	94.80	3.74	53.40	28.75	6.85	15.06	33.33	31.57	8.34
MEAN	.046	.48	.60	3.06	.13	1.72	.96	.22	.50	1.08	1.02	.28
MAX	.64	5.6	9.0	25	.79	21	13	.94	1.5	1.7	1.7	1.7
MIN	0	0	0	0	.10	0	0	0	.01	.43	.11	0
AC-FT	2.8	28	37	188	7.4	106	57	14	30	66	63	17

CAL YR 1973 TOTAL 711.08 MEAN 1.95 MAX 87 MIN 0 AC-FT 1,410

WTR YR 1974 TOTAL 310.36 MEAN .85 MAX 25 MIN 0 AC-FT 616

NOTE.--No gage-height record Jan. 26 to Feb. 27.

REMARKS.--Records poor. Runoff affected by urbanization.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.60	0	16	0	0	29	15	.73	.47	0	0	.02
2	1.2	1.5	1.0	0	0	21	12	.78	0	.15	0	0
3	1.4	2.8	.30	.23	1.3	5.4	.07	.28	0	.89	0	0
4	2.1	.17	.20	15	0	0	0	.31	0	0	.46	0
5	2.3	.42	0	.33	0	0	0	0	.33	0	0	.12
6	2.8	0	0	.50	.50	0	0	0	.16	.30	0	.32
7	4.5	.43	0	9.0	0	10	0	0	.96	0	0	.16
8	.45	.78	0	.50	.20	.56	0	0	.38	0	0	.16
9	0	.95	0	.25	.14	0	.51	0	.47	0	0	.08
10	.47	.66	0	0	.27	0	.35	0	1.1	0	.03	0
11	.48	0	0	0	.27	0	.17	.42	1.2	0	0	0
12	.75	8.7	0	.70	0	.32	.31	.62	.52	0	0	0
13	.93	0	.14	0	0	.62	.65	0	.76	0	0	.23
14	.80	0	0	0	.68	0	0	0	.78	0	0	1.1
15	0	0	0	0	.34	.45	.56	.77	.54	0	0	1.2
16	0	.31	0	1.0	.67	0	1.4	.80	.25	.46	0	.49
17	.70	9.3	0	1.5	0	0	1.7	.45	.44	0	0	.17
18	1.5	.50	0	.25	0	.32	1.3	.13	.80	.56	0	.52
19	1.7	.40	0	.15	0	.59	.79	0	.10	0	0	.93
20	1.7	.30	0	0	0	.89	.06	0	0	0	0	.69
21	.71	.20	2.8	0	0	.65	0	.89	0	0	0	.82
22	1.2	4.6	.50	0	0	.18	0	.92	0	.46	0	.05
23	3.6	.40	0	0	0	.70	.18	.85	0	.56	.44	0
24	.18	.30	.17	0	.65	.32	.28	0	0	0	.33	0
25	1.2	.20	0	0	0	0	.65	0	0	.38	0	0
26	1.8	.10	1.1	0	0	1.1	1.5	.18	.21	.98	.17	.41
27	2.0	0	8.8	0	0	3.4	0	0	0	.86	0	.59
28	1.0	0	.15	0	.30	6.8	0	.49	0	.50	.22	.59
29	0	0	0	.20	-----	0	0	.43	0	.57	.40	.03
30	0	0	0	0	-----	12	.80	.80	0	.21	.15	.19
31	0	-----	0	0	-----	0	-----	.30	-----	0	.40	-----
TOTAL	35.70	33.02	33.36	29.41	5.52	96.30	38.27	10.80	9.47	6.88	2.65	8.87
MEAN	1.15	1.10	1.03	.95	.20	3.11	1.26	.35	.32	.22	.086	.30
MAX	4.5	9.3	18	15	1.3	29	15	.92	1.2	.98	.46	1.2
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	71	65	66	58	11	191	76	21	19	14	5.3	18
CAL YR 1973	TOTAL 736.03			MEAN 2.02	MAX 78	MIN 0	AC-FT 1,460					
CAL YR 1974	TOTAL 310.27			MEAN .85	MAX 29	MIN 0	AC-FT 515					

LOCATION.--Lat 34°58'35", long 120°34'15", in Guadalupe Grant, Santa Barbara County, on downstream side of bridge on State Highway 1, 0.5 mi (0.8 km) north of Guadalupe, and 4.5 mi (7.2 km) upstream from mouth.

PERIOD OF RECORD.--October 1940 to current year. Monthly discharge only October 1940 to January 1941, published in WSP 1315-B.

AVERAGE DISCHARGE.--34 years, 31.8 ft³/s (0.901 m³/s), 23,040 acre-ft/yr (28.4 hm³/yr).

Period of record: Maximum discharge, 32,800 ft³/s (929 m³/s) Jan. 16, 1952 (gage height, 8.18 ft or 2.493 m); maximum gage height, 10.00 ft (3.048 m) Feb. 26, 1969; no flow for all or parts of each year.

REMARKS.--Records fair. Cuyama River regulated since February 1959 by Twitchell Reservoir, capacity, 240,000 acre-ft (296 hm³). Several small surface diversions and extensive pumping from wells for irrigation along stream above station. AVERAGE DISCHARGE represents flow to ocean, regardless of upstream development.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0			0					
2				0			3.5					
3				0			0					
4				0			0					
5				0			0					
6				0			0					
7				0.9			0					
8				.11			0					
9				.12			0					
10				0			0					
11				0			0					
12				.41			0					
13				.20			0					
14				.05			0					
15				0			0					
16				0			0					
17				.92			0					
18				0			0					
19				0			0					
20				0			0					
21				0			0					
22				0			0					
23				0			0					
24				0			0					
25				0			0					
26				0			0					
27				0			0					
28				0			0					
29				0	-----		0					
30				0	-----		0					
31		-----		0	-----		-----		-----			-----
TOTAL	0	0	0	101.70	0	0	3.5	0	0	0	0	0
MEAN	0	0	0	3.26	0	0	.12	0	0	0	0	0
MAX	0	0	0	.92	0	0	3.5	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	202	0	0	6.9	0	0	0	0	0
CAL YR 1973	TOTAL	0,027.39	MEAN	13.8	MAX	2,420	MIN	0	AC-FT	9,990		
RTK YR 1974	TOTAL	105.22	MEAN	.29	MAX	69	MIN	0	AC-FT	209		

11141150 ARROYO GRANDE ABOVE PHOENIX CREEK, NEAR ARROYO GRANDE, CALIF.

LOCATION.--Lat 35°11'03", long 120°26'11", in Arroyo Grande Grant, San Luis Obispo County, on right bank at county road bridge 100 ft (30 m) upstream from Phoenix Creek, 8.8 mi (14.2 km) northeast of Arroyo Grande.

DRAINAGE AREA.--13.5 mi² (35.0 km²).

PERIOD OF RECORD.--June 1967 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 550 ft (168 m), from topographic map.

AVERAGE DISCHARGE.--7 years, 3.05 ft³/s (0.0864 m³/s), 2,210 acre-ft/yr (2.72 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 54 ft³/s (1.53 m³/s) Nov. 8 (gage height, 4.93 ft or 1.503 m), from rating curve extended above 6.2 ft³/s (0.18 m³/s) as explained below; minimum daily, 0.60 ft³/s (0.017 m³/s) Nov. 4.

Period of record: Maximum discharge, 1,270 ft³/s (36.0 m³/s) Jan. 25, 1969 (gage height, 6.83 ft or 2.082 m in gage well, 6.57 ft or 2.003 m, from floodmarks), from rating curve extended above 350 ft³/s (9.91 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.16 ft³/s (0.005 m³/s) Aug. 9, 1971.

REMARKS.--Records good. No regulation or diversion above station except for small stock ponds.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.2	8.2	3.2	3.3	6.8	7.9	2.3	2.3	2.1	1.8	1.0
2	1.2	.99	2.4	2.7	3.3	10	10	2.3	2.1	2.0	1.9	1.1
3	1.3	1.1	2.2	2.7	3.3	6.3	6.1	2.3	2.3	1.9	1.9	1.1
4	.84	.60	2.3	6.2	3.3	4.2	5.5	2.2	2.3	1.8	1.8	1.1
5	.99	.71	2.2	4.1	3.3	3.8	5.0	2.1	2.0	1.8	1.8	1.2
6	2.4	.84	2.1	7.2	3.3	3.7	4.8	2.1	1.8	1.8	1.7	1.2
7	1.2	.84	1.9	16	3.2	6.2	4.3	2.4	1.8	1.8	1.7	1.2
8	1.5	3.4	1.9	6.3	2.9	6.5	4.4	2.5	1.9	1.8	1.6	1.2
9	1.7	.84	2.0	4.6	2.9	4.1	4.7	2.5	1.8	1.8	1.6	1.2
10	1.3	.99	1.9	3.6	2.9	3.9	4.6	2.3	1.9	1.9	1.6	1.2
11	1.3	.99	1.9	3.4	2.9	3.7	4.6	2.3	1.8	1.9	1.5	1.3
12	1.2	2.4	1.9	6.7	3.0	3.5	4.7	2.3	1.8	1.9	1.5	1.4
13	1.2	1.2	2.4	4.4	3.0	3.4	4.5	2.2	1.8	1.9	1.5	1.4
14	1.2	1.3	2.2	4.0	2.9	3.3	4.2	2.2	1.8	1.7	1.5	1.2
15	1.2	1.7	2.1	3.7	2.9	3.2	4.3	2.2	1.7	1.7	1.4	1.2
16	1.2	2.4	2.1	4.7	2.9	3.1	4.3	2.1	1.7	1.6	1.4	1.2
17	1.2	3.7	2.0	8.4	2.8	3.0	4.5	2.2	1.8	1.5	1.3	1.2
18	1.2	2.2	2.0	5.5	2.7	2.9	4.3	2.5	1.9	1.6	1.3	1.3
19	1.3	1.4	2.1	4.4	2.9	2.8	4.0	2.4	1.8	1.7	1.3	1.3
20	.99	1.2	2.1	4.2	2.7	2.7	3.7	2.3	2.0	1.5	1.3	1.3
21	1.3	1.2	2.7	3.8	2.6	2.7	3.1	2.3	1.9	1.3	1.3	1.3
22	1.4	1.0	3.0	3.5	2.6	2.6	2.7	2.3	1.9	1.3	1.3	1.2
23	1.7	1.4	2.5	3.5	2.5	2.5	2.7	2.5	1.8	1.3	1.3	1.2
24	1.3	1.2	2.4	3.2	2.4	2.5	3.4	2.4	1.8	1.3	1.3	1.2
25	.99	1.2	2.4	3.2	2.4	3.0	2.6	2.3	1.8	1.3	1.0	1.2
26	1.5	1.3	2.5	3.2	2.4	4.2	2.6	2.3	1.6	1.4	1.0	1.3
27	.99	1.3	3.5	3.2	2.4	4.8	2.6	2.2	1.6	1.5	1.0	1.3
28	1.2	1.2	3.0	3.2	2.4	6.4	2.5	2.4	1.6	1.5	1.0	1.4
29	1.2	1.2	2.9	3.2	-----	4.3	2.2	2.4	1.9	1.5	1.0	1.3
30	1.2	1.2	2.8	3.2	-----	6.9	2.2	2.3	2.0	1.7	1.0	1.3
31	1.3	-----	2.8	3.2	-----	4.2	-----	2.3	-----	1.8	1.0	-----
TOTAL	40.30	43.10	78.5	142.4	80.1	131.2	127.0	71.4	56.2	51.6	43.6	37.0
MFAN	1.30	1.44	2.53	4.59	2.86	4.23	4.23	2.30	1.87	1.66	1.41	1.23
MAX	2.5	3.7	8.2	16	3.3	10	10	2.5	2.3	2.1	1.9	1.4
MIN	.84	.60	1.9	2.7	2.4	2.5	2.2	2.1	1.6	1.3	1.0	1.0
AC-FT	80	85	156	282	159	260	252	142	111	102	86	73

CAL YR 1973 TOTAL 918.64 MEAN 2.52 MAX 14 MIN .60 AC-FT 1,820
WTR YR 1974 TOTAL 902.40 MEAN 2.47 MAX 15 MIN .60 AC-FT 1,790

PEAK DISCHARGE (BASE, 20 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-8	1430	4.93	54	3-1	2245	4.70	26
12-1	0330	4.71	27	4-1	2115	4.67	22
1-7	0530	4.68	23				

ARROYO GRANDE BASIN

11141160 WITTENBERG CREEK NEAR ARROYO GRANDE, CALIF.

LOCATION.--Lat 35°13'02", long 120°27'17", in NE¼NE¼ sec.22, T.31 S., R.14 E., San Luis Obispo County, on left bank 0.4 mi (0.6 km) upstream from Huffs Hole Creek, and 10 mi (16 km) northeast of Arroyo Grande.

DRAINAGE AREA.--3.11 mi² (8.05 km²).

PERIOD OF RECORD.--August 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 560 ft (171 m), from topographic map. Prior to Oct. 8, 1970, at site 0.2 mi (0.3 km) downstream at same datum.

AVERAGE DISCHARGE.--7 years, 1.22 ft³/s (0.0346 m³/s), 884 acre-ft/yr (1.09 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 147 ft³/s (4.16 m³/s) Jan. 8 (gage height, 4.20 ft or 1.280 m, from outside high-water mark), from rating curve extended above 1.5 ft³/s (0.042 m³/s) on basis of computation of flow through culvert at gage height 4.98 ft (1.518 m); minimum daily, 0.04 ft³/s (0.001 m³/s) Oct. 3, 4, Oct. 10-19, 28, Sept. 17, 20-24, 28-30.

Period of record: Maximum discharge, 840 ft³/s (23.8 m³/s) Jan. 19, 1969 (gage height, 7.9 ft or 2.41 m, from outside gage); no flow many days in most years.

REMARKS.--Records poor. No regulation; small diversions above station for domestic use.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	.06	8.0	3.0	.69	5.7	3.9	.80	.32	.21	.15	.07
2	.06	.09	.38	2.8	.69	26	13	.80	.32	.23	.15	.07
3	.04	.09	.20	3.0	.58	13	5.4	.80	.33	.25	.12	.07
4	.04	.09	.25	8.6	.58	5.9	3.5	.80	.34	.25	.12	.06
5	.06	.09	.25	8.6	.58	4.3	2.4	.94	.38	.20	.12	.06
6	.06	.09	.31	36	.58	3.1	1.9	.80	.41	.17	.12	.06
7	.12	.09	.31	73	.69	3.5	1.7	.69	.41	.16	.10	.06
8	.06	.09	.38	12	.69	7.1	1.4	.80	.41	.16	.10	.05
9	.06	.09	.47	5.9	.69	3.9	1.4	.66	.41	.15	.10	.05
10	.04	.09	.47	3.5	.69	2.8	1.3	.82	.34	.15	.12	.05
11	.04	.09	.57	2.4	.69	2.2	1.1	.54	.34	.15	.10	.05
12	.04	.25	.57	3.5	.69	1.9	1.1	.62	.34	.15	.10	.06
13	.04	.09	.57	3.1	.69	1.7	.94	.56	.34	.15	.10	.06
14	.04	.12	.68	2.4	.69	1.3	.94	.62	.28	.15	.10	.05
15	.04	.09	.79	2.2	.58	1.1	.94	.53	.28	.12	.08	.05
16	.04	.11	.79	2.4	.58	.94	.80	.58	.27	.12	.08	.05
17	.04	.90	.79	10	.58	.80	.80	.60	.28	.12	.08	.04
18	.04	1.0	1.0	1.5	.58	.69	.94	.52	.30	.15	.08	.05
19	.04	.16	1.2	4.7	.58	.69	.80	.52	.30	.15	.08	.05
20	.06	.16	1.2	3.1	.58	.58	.80	.58	.27	.15	.08	.04
21	.06	.25	1.3	2.4	.58	.58	.80	.58	.25	.15	.09	.04
22	.09	.31	1.5	1.9	.58	.49	.80	.63	.25	.12	.11	.04
23	.09	.25	1.5	1.4	.69	.49	.69	.58	.25	.12	.11	.04
24	.06	.31	1.7	1.4	.69	.49	.80	.50	.24	.12	.10	.04
25	.12	.31	1.9	1.3	.69	.41	.80	.44	.23	.12	.09	.05
26	.06	.11	1.9	1.1	.69	.49	.69	.43	.21	.12	.09	.05
27	.06	.31	2.1	.94	.69	.58	.69	.41	.20	.15	.09	.05
28	.04	.31	1.9	.80	.69	1.3	.80	.43	.18	.15	.09	.04
29	.06	.38	1.9	.80	-----	.94	.69	.37	.19	.15	.09	.04
30	.06	.57	2.1	.80	-----	2.4	.69	.32	.20	.19	.08	.04
31	.06	-----	2.3	.69	-----	1.9	-----	.40	-----	.15	.08	-----
TOTAL	1.78	7.35	39.28	211.23	18.00	97.27	52.51	18.67	8.87	4.88	3.10	1.53
MEAN	.057	.25	1.27	6.81	.64	3.14	1.75	.60	.30	.16	.10	.051
MAX	.12	1.0	8.0	73	.69	26	13	.94	.41	.25	.15	.07
MIN	.04	.06	.20	.69	.58	.41	.69	.32	.18	.12	.08	.04
AC-FT	3.5	15	78	419	36	193	104	37	18	9.7	6.1	3.0

CAL YR 1973 TOTAL 711.62 MEAN 1.95 MAX 57 MIN .04 AC-FT 1,410
WTR YR 1974 TOTAL 464.47 MEAN 1.27 MAX 73 MIN .04 AC-FT 921

PEAK DISCHARGE (BASE, 50 FT³/S).--Jan. 8 (0045) 147 ft³/s (4.20 ft); Mar. 2 (0015) 71 ft³/s (4.18 ft).

NOTE.--Doubtful gage-height record Jan. 7, 8.

11141280 LOPEZ CREEK NEAR ARROYO GRANDE, CALIF.

LOCATION.--Lat 35°13'48", long 120°28'22", in SE¼NE¼ sec.16, T.31 S., R.14 E., San Luis Obispo County, on right bank 0.7 mi (1.1 km) upstream from small right-bank tributary, 3.2 mi (5.1 km) upstream from mouth, and 9.2 mi (14.8 km) northeast of Arroyo Grande.

DRAINAGE AREA.--21.6 mi² (55.9 km²).

PERIOD OF RECORD.--July 1967 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 540 ft (165 m), from topographic map.

AVERAGE DISCHARGE.--7 years, 11.8 ft³/s (0.334 m³/s), 8,550 acre-ft/yr (10.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 732 ft³/s (20.7 m³/s) Jan. 7 (gage height, 6.06 ft or 1.847 m), from rating curve extended as explained below; minimum daily, 2.0 ft³/s (0.057 m³/s) Oct. 4.
Period of record: Maximum discharge, 2,830 ft³/s (80.1 m³/s) Jan. 25, 1969 (gage height, 9.26 ft or 2.822 m in gage well, 10.8 ft or 3.29 m, from floodmarks), from rating curve extended above 300 ft³/s (8.50 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.56 ft³/s (0.016 m³/s) Aug. 15, 1972.

REMARKS.--Records fair. Small diversions above station for domestic use.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	2.9	7.1	10	11	31	30	13	6.2	3.7	3.6	3.0
2	2.2	2.9	18	9.2	10	162	100	12	6.7	4.0	3.5	3.1
3	2.2	2.9	11	8.1	9.8	95	50	11	6.2	4.0	3.6	3.0
4	2.0	2.9	9.2	55	9.2	55	40	12	6.2	3.7	3.8	2.9
5	2.2	3.2	7.1	47	9.2	36	37	12	6.2	3.7	3.8	2.9
6	2.2	3.2	6.0	151	8.6	27	32	11	5.6	3.7	3.7	2.9
7	2.9	3.2	6.7	389	8.6	28	30	11	5.6	3.7	3.4	2.9
8	2.9	3.2	7.6	98	8.1	64	29	10	5.6	3.7	3.4	2.7
9	2.7	3.2	8.1	48	7.6	38	28	10	5.6	3.7	3.6	2.7
10	2.4	3.2	7.6	32	7.1	30	26	10	5.5	4.3	3.8	2.6
11	2.4	3.2	7.1	24	7.1	25	25	11	5.2	4.1	3.6	2.7
12	2.2	5.8	7.1	26	7.1	21	24	10	5.0	3.9	3.7	3.4
13	2.4	4.0	8.1	24	7.1	18	22	10	4.9	3.8	3.7	3.4
14	2.2	4.0	8.1	20	6.7	15	21	10	5.3	3.8	3.8	3.4
15	2.4	4.0	7.6	18	6.7	13	20	9.8	5.3	3.8	3.8	3.4
16	2.4	6.2	7.1	19	6.7	11	20	9.8	5.3	4.0	3.8	3.2
17	2.4	21	7.1	57	6.2	10	20	9.2	5.5	4.0	3.6	3.2
18	2.2	39	7.1	44	5.8	9.8	19	9.8	5.8	3.9	3.5	3.2
19	2.2	12	6.7	34	6.2	9.2	19	9.8	5.7	3.6	3.5	2.9
20	2.4	9.2	6.7	28	5.8	8.6	19	9.2	5.0	3.6	3.3	2.6
21	2.7	8.6	7.6	24	5.8	8.0	19	8.6	4.9	3.6	3.3	2.4
22	2.9	9.8	12	20	5.8	7.6	18	7.6	4.9	3.6	3.3	2.4
23	3.7	9.8	9.2	18	5.4	7.6	18	7.1	4.7	3.4	3.2	2.4
24	3.2	8.6	7.6	16	5.4	7.1	20	7.1	4.6	3.4	3.1	2.4
25	2.9	8.1	7.1	15	5.4	6.6	18	7.1	4.5	3.3	3.0	2.9
26	2.9	7.1	7.1	14	5.4	7.6	17	6.7	4.3	3.3	2.9	2.9
27	2.9	6.7	8.1	13	5.4	9.8	17	6.7	4.1	3.2	2.9	2.9
28	2.9	6.7	8.1	12	5.0	17	16	6.7	3.4	3.3	3.3	3.2
29	2.9	6.7	7.6	12	-----	14	16	6.7	3.7	3.2	3.2	3.2
30	2.9	6.2	7.6	11	-----	23	14	6.7	4.0	3.8	3.1	2.9
31	2.9	-----	7.6	10	-----	21	-----	6.7	-----	3.8	3.2	-----
TOTAL	80.1	217.5	314.6	1,306.3	198.2	835.9	784	288.3	155.5	114.6	107.0	87.7
MFAN	2.58	7.25	10.1	42.1	7.08	27.0	26.1	9.30	5.18	3.70	3.45	2.92
MAX	3.7	39	71	389	11	162	100	13	6.7	4.3	3.8	3.4
MIN	2.0	2.9	6.0	8.1	5.0	6.6	14	6.7	3.4	3.2	2.9	2.4
AC-FT	159	431	624	2,590	393	1,660	1,560	572	308	227	212	174

CAL YR 1973 TOTAL 6,361.40 MEAN 17.4 MAX 720 MIN 0 AC-FT 12,620
WTR YR 1974 TOTAL 4,489.70 MEAN 12.3 MAX 389 MIN 2.0 AC-FT 8,910

PEAK DISCHARGE (BASE, 30 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-17	2130	4.15	117	3-2	0230	4.97	321
12-1	0600	4.39	166	3-8	0100	4.05	95
1-7	0200	6.06	732	4-2	0100	4.37	161
1-17	0945	3.90	82				

11141400 TAR SPRING CREEK NEAR ARROYO GRANDE, CALIF.

LOCATION.--Lat 35°07'56", long 120°32'30", in Santa Manuela Grant, San Luis Obispo County, on right bank 0.5 mi (0.8 km) upstream from mouth, and 2.1 mi (3.4 km) northeast of Arroyo Grande.

DRAINAGE AREA.--18.2 mi² (47.1 km²).

PERIOD OF RECORD.--August 1967 to current year.

GAGE.--Water-stage recorder and rain gage. Altitude of gage is 180 ft (55 m), from topographic map. Prior to May 20, 1969, at site 0.3 mi (0.5 km) upstream at datum 24.00 ft (7.315 m) higher.

AVERAGE DISCHARGE.--7 years, 3.42 ft³/s (0.0969 m³/s), 2,480 acre-ft/yr (3.06 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 450 ft³/s (12.7 m³/s) Jan. 7 (gage height, 6.30 ft or 1.920 m); minimum daily, 0.19 ft³/s (0.005 m³/s) June 28.

Period of record: Maximum discharge, 1,340 ft³/s (37.9 m³/s) Jan. 25, 1969 (gage height, 10.1 ft or 3.08 m, from floodmarks), from rating curve extended above 68 ft³/s (1.93 m³/s) on basis of slope-area measurement of maximum flow; no flow at times.

REMARKS.--Records fair. No regulation; some diversion above station for irrigation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.75	.54	1.6	3.0	3.5	1.3	32	3.2	1.1	.60	.23	.75
2	.84	.60	1.6	2.8	3.2	68	54	3.5	1.1	.60	.27	.54
3	.84	.60	1.4	2.8	2.8	37	30	3.0	1.2	.32	.42	.54
4	.75	.60	1.2	30	2.6	13	15	2.4	1.1	.37	.54	.60
5	.84	.62	1.1	12	2.6	12	13	2.4	1.3	.75	.60	.32
6	.84	.70	1.1	55	2.6	9.6	11	2.8	.93	.67	.48	.60
7	.84	.72	1.0	195	2.5	29	9.6	2.6	.84	.54	.27	.48
8	.84	.62	1.2	46	2.6	44	8.3	2.2	.75	.54	.54	.37
9	.93	.65	1.1	17	2.6	22	8.3	2.8	.75	1.1	.54	.48
10	.93	.76	1.1	11	2.6	17	7.1	1.8	1.1	.93	.67	.42
11	.93	.84	1.0	7.5	2.6	15	6.4	2.2	1.2	1.4	.54	.37
12	.93	1.1	1.0	24	2.6	15	5.7	1.9	1.2	.93	.75	.37
13	.93	.80	1.1	12	2.6	10	6.1	2.2	.93	.60	.37	.54
14	.67	.27	1.1	8.7	2.4	9.2	5.4	1.8	.75	.93	.93	.32
15	.54	.27	1.0	7.1	2.4	7.5	5.7	1.9	1.1	.60	.84	.32
16	.54	.42	1.0	10	2.4	6.4	5.7	2.1	1.1	.67	.42	.60
17	.54	.75	1.0	46	2.4	6.4	5.1	1.8	1.0	.60	.48	.60
18	.48	1.2	1.0	20	2.4	6.4	4.5	1.8	.67	.54	.42	.67
19	.32	.75	1.0	15	2.4	6.4	4.5	1.8	1.0	.37	.48	.67
20	.32	.75	1.0	12	2.4	5.7	4.0	2.1	.75	.54	.42	.84
21	.32	.75	1.2	9.6	2.2	5.7	4.2	1.9	.75	.75	.48	.54
22	.32	1.1	1.4	8.3	2.1	5.7	4.0	2.2	.75	.54	.67	.42
23	.37	.93	1.2	7.1	1.9	5.7	3.7	1.8	.67	.32	.48	.60
24	.32	.93	1.2	6.1	2.1	5.4	4.8	1.5	.37	.32	.67	.84
25	.37	.93	1.1	5.4	2.1	5.1	4.2	1.6	.42	.27	.48	.75
26	.48	.93	1.1	5.1	1.9	5.4	3.7	1.4	.37	.54	.42	.67
27	.42	.84	1.5	4.5	2.1	6.8	3.2	1.5	.42	.60	.32	.75
28	.48	.93	1.5	4.2	2.2	9.2	3.0	1.4	.19	.54	.54	.67
29	.48	.93	1.8	4.0	-----	7.5	3.2	1.1	.32	.48	.75	.67
30	.54	.93	2.6	3.7	-----	19	2.6	1.4	.54	.37	.60	.67
31	.54	-----	2.6	3.5	-----	9.2	-----	1.1	-----	.27	.75	-----
TOTAL	19.24	22.76	54.2	598.4	68.8	437.3	278.0	63.2	24.67	18.60	16.37	16.98
MEAN	.62	.76	1.75	19.3	2.46	14.1	9.27	2.04	.82	.60	.53	.57
MAX	.93	1.2	1.6	195	3.5	68	54	3.5	1.3	1.4	.93	.84
MIN	.32	.27	1.0	2.8	1.9	5.1	2.6	1.1	.19	.27	.23	.32
AC-FT	34	45	108	1,190	136	867	551	125	49	37	32	34
(a)	.66	3.53	3.07	6.51	.13	5.70	1.19	0	0	0	0	0

CAL YR 1973 TOTAL 1,157.95 MEAN 3.17 MAX 196 MIN .01 AC-FT 2,300
WTR YR 1974 TOTAL 1,618.52 MEAN 4.43 MAX 195 MIN .19 AC-FT 3,210

PEAK DISCHARGE (BASE, 20 FT ³ /S)				a Precipitation, in inches.			
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-1	0400	4.75	65	3-2	0030	5.24	163
1-4	0430	5.28	173	3-7	2215	5.27	170
1-7	0615	6.30	450	3-11	0600	4.46	30
1-12	0915	4.64	50	3-30	0945	4.72	61
1-17	0645	4.80	73	4-1	2215	5.48	224

11141500 ARROYO GRANDE AT ARROYO GRANDE, CALIF.

LOCATION.--Lat 35°07'28", long 120°34'05", in Pismo Grant, San Luis Obispo County, on left bank at Arroyo Grande, 0.7 mi (1.1 km) upstream from U.S. Highway 101.

DRAINAGE AREA.--102 mi² (264 km²).

PERIOD OF RECORD.--October 1939 to current year. Records for water year 1940 incomplete, yearly estimate published in WSP 1315-B.

GAGE.--Water-stage recorder and broad-crested weir. Datum of gage is 97.77 ft (29.800 m) above mean sea level. Prior to July 10, 1947, at datum 0.50 ft (0.152 m) higher.

AVERAGE DISCHARGE.--29 years (1939-68), 19.4 ft³/s (0.549 m³/s), 14,060 acre-ft/yr (17.3 hm³/yr); 6 years (1968-74), 15.5 ft³/s (0.439 m³/s), 11,230 acre-ft/yr (13.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 532 ft³/s (15.1 m³/s) Jan. 7 (gage height, 4.60 ft or 1.402 m); minimum daily, 1.6 ft³/s (0.045 m³/s) Oct. 4.
Period of record: Maximum discharge, 5,400 ft³/s (153 m³/s) Dec. 6, 1966 (gage height, 12.88 ft or 3.926 m); no flow for several days in some years. Maximum discharge since construction of Lopez Dam in 1968, 2,990 ft³/s (84.7 m³/s) Feb. 24, 1969 (gage height, 9.48 ft or 2.890 m).

REMARKS.--Records good. Flow regulated by Lopez Dam 7.8 mi (12.6 km) upstream since 1968, usable capacity, 47,800 acre-ft (58.9 hm³). Many small and intermittent diversions by pumping from stream for irrigation of about 4,000 acres (16.2 km²) above station.

REVISIONS (WATER YEARS).--WSP 931: 1940. WSP 1011: 1941, 1942(M). WSP 1929: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	4.5	3.3	5.9	32	42	116	29	8.4	5.6	5.3	8.0
2	3.7	3.7	9.2	5.3	32	201	227	29	8.0	5.0	5.3	7.7
3	2.9	3.7	7.3	5.3	32	219	179	28	8.4	5.0	5.6	6.6
4	1.6	3.7	6.9	4.9	29	191	140	27	8.0	4.7	7.3	4.2
5	2.5	3.9	5.9	30	29	152	117	26	7.3	5.6	6.9	3.5
6	3.5	4.5	6.6	7.9	29	125	110	26	6.6	5.6	6.2	3.7
7	4.7	4.5	6.2	316	26	128	97	26	6.9	6.6	5.3	6.2
8	5.6	3.7	5.9	9.3	21	147	76	29	6.2	7.7	5.6	6.6
9	5.6	4.2	5.9	4.5	19	124	67	23	5.6	5.9	4.7	6.2
10	5.6	5.0	6.2	36	20	105	63	22	6.6	6.2	5.0	5.0
11	5.4	5.3	5.6	22	18	93	57	22	5.4	6.6	5.6	4.5
12	5.6	7.3	5.3	61	17	52	54	22	5.3	5.6	4.7	4.5
13	4.2	5.3	6.2	56	16	74	50	24	6.2	5.0	4.5	5.6
14	3.9	5.9	5.9	50	26	70	44	22	3.5	5.9	4.7	3.7
15	4.2	5.6	5.6	43	27	61	43	21	3.3	4.7	5.9	4.7
16	5.0	8.5	5.6	51	26	54	41	17	5.3	4.2	4.7	5.0
17	5.0	11	5.6	150	25	52	40	13	5.4	4.2	5.9	4.7
18	4.2	12	6.9	143	24	48	39	13	6.2	4.2	4.5	4.2
19	3.1	6.6	6.2	125	24	46	39	12	6.9	4.5	5.6	4.7
20	2.9	6.6	5.3	110	24	44	36	13	4.5	3.3	5.0	4.5
21	4.5	6.0	5.0	94	23	43	38	12	3.7	4.7	5.9	5.0
22	5.0	8.4	6.9	81	22	43	38	12	4.5	4.7	6.6	3.1
23	6.2	7.3	5.6	64	25	43	37	14	5.3	3.3	9.0	3.7
24	6.2	6.4	5.3	53	21	43	36	13	5.3	3.7	7.3	2.9
25	5.0	6.2	5.3	49	21	43	36	11	5.3	3.9	5.9	3.9
26	5.4	5.9	5.6	43	20	43	35	8.8	4.5	4.2	5.9	3.7
27	5.2	6.2	6.9	41	16	48	34	4.6	3.3	3.3	3.3	5.0
28	4.5	5.9	6.6	37	15	62	33	8.8	2.0	3.7	5.3	5.0
29	3.5	5.4	5.6	36	-----	65	32	8.0	2.3	3.1	6.2	5.9
30	3.3	5.6	5.6	36	-----	91	32	8.8	4.7	3.7	7.3	6.2
31	2.5	-----	5.6	35	-----	62	-----	8.4	-----	4.7	6.9	-----
TOTAL	136.1	180.7	215.9	2,044.5	659	2,667	1,988	553.4	165.4	149.1	176.9	148.2
MEAN	4.39	6.02	6.96	66.0	23.5	86.0	66.3	17.9	5.53	4.81	5.71	4.94
MAX	6.2	12	33	316	32	219	227	29	8.4	7.7	8.0	8.0
MIN	1.6	3.7	5.3	5.3	15	42	32	8.0	2.0	3.1	3.3	2.9
AC-FT	270	358	428	4,060	1,310	5,290	3,940	1,100	329	296	351	294

CAL Yr 1973 TOTAL 5,448.3 MEAN 14.9 MAX 393 MIN 1.6 AC-FT 10,810
Wtr Yr 1974 TOTAL 9,084.7 MEAN 24.9 MAX 316 MIN 1.6 AC-FT 18,020

11141600 LOS BERROS CREEK NEAR NIPOMO, CALIF.

LOCATION.--Lat 35°05'17", long 120°30'32", in Nipomo Grant (on boundary), San Luis Obispo County, on left bank at upstream side of bridge, 0.8 mi (1.3 km) downstream from Adobe Creek, and 3.7 mi (6.0 km) northwest of Nipomo.

DRAINAGE AREA.--15.0 mi² (38.8 km²).

PERIOD OF RECORD.--August 1968 to current year.

GAGE.--Water-stage recorder and broad-crested weir. Altitude of gage is 312 ft (95 m), from topographic map.

AVERAGE DISCHARGE.--6 years, 2.48 ft³/s (0.0702 m³/s), 1,800 acre-ft/yr (2.22 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 105 ft³/s (2.97 m³/s) Jan. 7 (gage height, 2.76 ft or 0.841 m); minimum daily, 0.01 ft³/s (<0.001 m³/s) Nov. 14.
Period of record: Maximum discharge, 599 ft³/s (17.0 m³/s) Jan. 25, 1969 (gage height, 5.43 ft or 1.655 m), from rating curve extended above 230 ft³/s (6.51 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.01 ft³/s (<0.001 m³/s) Nov. 3, 1972, Nov. 14, 1973.

REMARKS.--Records good except those for period of no gage-height record, which are fair. No regulation or diversion above station.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	.04	3.1	.72	2.7	4.6	11	2.9	1.5	.89	.39	.26
2	.06	.04	1.8	.72	2.5	20	40	2.9	1.5	.99	.39	.26
3	.06	.04	.91	.72	2.1	15	21	2.9	1.5	.99	.34	.30
4	.05	.04	.72	13	1.9	12	14	2.7	1.3	.99	.34	.26
5	.06	.04	.57	5.4	1.9	9.0	11	2.7	1.2	.89	.34	.28
6	.06	.05	.50	22	1.8	7.0	9.4	2.7	1.2	.89	.34	.24
7	.06	.05	.50	86	1.8	7.6	8.0	2.7	1.1	.89	.30	.23
8	.06	.04	.44	37	1.8	10	7.3	2.5	1.2	.80	.34	.26
9	.07	.05	.39	14	1.6	8.0	6.7	2.5	1.1	.80	.34	.25
10	.07	.06	.39	9.0	1.6	7.0	6.4	2.5	1.2	.80	.34	.27
11	.07	.06	.39	6.7	1.6	6.4	5.8	2.3	1.2	.80	.39	.26
12	.07	.08	.39	8.7	1.6	5.8	5.3	2.1	1.2	.72	.39	.26
13	.07	.04	.39	8.7	1.5	5.3	4.7	2.1	1.1	.72	.39	.25
14	.05	.01	.44	7.6	1.3	5.3	4.7	2.1	1.1	.64	.39	.24
15	.04	.02	.50	6.7	1.3	5.3	4.7	2.1	1.1	.64	.39	.24
16	.04	.06	.50	6.4	1.3	4.7	4.7	2.1	1.1	.57	.39	.22
17	.04	.05	.50	14	1.3	4.7	4.5	2.1	1.2	.57	.34	.24
18	.03	.06	.50	13	1.3	4.7	4.5	2.1	1.2	.57	.34	.26
19	.02	.05	.44	11	1.5	4.5	4.2	1.9	1.2	.50	.30	.21
20	.02	.05	.39	9.0	1.5	4.5	4.0	1.9	.99	.50	.30	.22
21	.02	.05	.50	7.3	1.3	4.2	3.7	1.8	.99	.44	.34	.19
22	.02	.07	.80	6.1	1.3	4.2	3.7	1.6	.99	.50	.34	.21
23	.03	.07	.64	5.3	1.3	3.5	3.7	1.6	.99	.44	.39	.24
24	.02	.07	.64	5.0	1.2	3.3	3.7	1.5	.99	.44	.39	.22
25	.02	.08	.64	4.5	1.1	3.3	3.5	1.5	.89	.39	.34	.22
26	.03	.08	.64	4.2	1.1	3.3	3.1	1.5	.80	.39	.34	.22
27	.03	.08	.89	3.5	1.1	3.7	3.1	1.5	.80	.39	.39	.22
28	.03	.08	.89	3.3	1.1	4.5	3.1	1.5	.72	.39	.39	.22
29	.03	.08	.80	3.1	-----	4.2	2.7	1.5	.80	.39	.34	.22
30	.04	.08	.72	2.9	-----	5.8	2.7	1.5	.80	.39	.30	.22
31	.04	-----	.72	2.7	-----	4.7	-----	1.5	-----	.44	.26	-----
TOTAL	1.36	1.67	21.64	328.26	43.4	196.1	214.9	64.8	32.96	19.76	10.90	7.19
MEAN	.044	.056	.70	10.6	1.55	6.33	7.16	2.09	1.10	.64	.35	.24
MAX	.07	.08	3.1	86	2.7	20	40	2.9	1.5	.99	.39	.30
MIN	.02	.01	.39	.72	1.1	3.3	2.7	1.5	.72	.39	.26	.19
AC-FT	2.7	3.3	43	651	86	389	426	129	65	39	22	14

CAL YR 1973 TOTAL 1,425.41 MEAN 3.91 MAX 131 MIN .01 AC-FT 2,830
WTR YR 1974 TOTAL 942.94 MEAN 2.58 MAX 86 MIN .01 AC-FT 1,870

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
1-7	1430	2.76	105	3-7	2000	1.84	14
1-17	1415	1.87	16	3-30	0730	1.74	9.8
3-2	0730	2.06	28	4-2	0515	2.36	55

NOTE.--No gage-height record Oct. 1 to Nov. 17.

11142080 MORRO CREEK AT MORRO BAY, CALIF.

LOCATION.--Lat 35°22'42", long 120°51'12", in Moro Y Cayucos Grant, San Luis Obispo County, on left bank at upstream side of frontage road bridge in town of Morro Bay, and 700 ft (213 m) downstream from Little Morro Creek.

DRAINAGE AREA.--24.0 mi² (62.2 km²).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 20 ft (6.1 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 1,050 ft³/s (29.7 m³/s) Apr. 1 (gage height, 7.52 ft or 2.292 m), from rating curve extended as explained below; minimum daily, 0.37 ft³/s (0.010 m³/s) Nov. 4, 5.

Period of record: Maximum discharge, 1,960 ft³/s (55.5 m³/s) Jan. 18, 1973 (gage height, 10.38 ft or 3.164 m), from rating curve extended above 440 ft³/s (12.5 m³/s) on basis of slope-area measurement of maximum flow; no flow for long periods in most years.

REMARKS.--Records fair except those for period of no gage-height record, which are poor. No regulation; small diversion above station for individual use.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.66	.48	12	9.9	16	59	249	13	6.1	4.1	1.7	1.7
2	.66	.42	9.3	8.3	15	220	269	12	6.1	3.8	1.3	1.3
3	.60	.39	6.6	4.5	15	130	121	12	6.1	3.8	1.3	1.5
4	.70	.37	4.9	225	15	92	76	12	6.1	3.8	1.2	1.3
5	.88	.37	4.5	146	14	60	54	12	6.6	3.4	1.5	1.3
6	1.3	.38	4.1	135	14	49	41	12	6.6	3.1	1.5	1.1
7	2.1	.42	3.4	560	14	100	36	15	6.1	3.1	1.7	1.2
8	2.1	.46	3.4	240	14	145	32	16	5.7	2.8	1.7	1.3
9	1.5	.38	3.4	125	16	88	29	16	6.1	2.8	1.7	1.3
10	1.2	.41	3.4	69	15	63	24	15	5.7	3.1	1.7	.92
11	1.4	.70	3.1	52	15	50	22	14	5.7	3.1	1.7	.92
12	1.4	2.2	3.1	51	15	42	21	13	6.1	2.1	1.9	1.2
13	.94	1.5	3.4	41	15	36	18	13	5.7	2.3	1.9	1.2
14	.94	1.0	3.4	36	14	32	18	12	5.7	2.3	1.9	1.3
15	1.1	.92	3.1	33	14	28	19	12	4.9	2.3	1.9	1.5
16	1.2	1.5	3.1	35	14	27	18	12	4.9	1.9	1.7	1.7
17	1.2	2.3	3.1	76	13	26	18	11	5.3	2.6	1.7	1.3
18	1.2	5.3	2.8	49	13	25	17	10	4.5	2.1	1.7	1.3
19	1.2	2.3	2.8	44	14	24	17	10	5.3	1.9	1.5	1.5
20	1.3	1.9	2.8	40	12	23	15	9.9	4.5	2.1	1.5	1.5
21	2.0	1.7	4.1	35	12	22	15	9.3	4.5	1.7	1.7	1.5
22	5.1	1.9	6.6	31	12	21	15	8.1	4.1	2.1	1.3	1.3
23	4.0	2.1	5.3	30	13	20	14	7.6	4.5	1.7	1.9	1.5
24	2.8	1.7	4.9	28	12	19	21	7.6	3.8	1.5	1.5	1.5
25	2.0	1.7	4.5	26	19	20	15	8.1	4.1	1.7	2.3	1.5
26	1.5	1.5	4.5	23	5.3	20	14	7.6	3.4	2.3	1.7	1.5
27	1.1	1.5	35	22	14	22	14	7.6	3.1	2.3	2.1	1.5
28	.94	1.3	20	21	16	108	13	7.6	4.1	2.6	2.1	1.1
29	.80	1.3	12	20	-----	42	14	7.6	3.8	2.6	1.7	1.1
30	.63	1.5	9.9	19	-----	113	13	7.6	3.8	1.9	1.7	.70
31	.57	-----	9.3	18	-----	51	-----	7.1	-----	1.9	1.7	-----
TOTAL	45.07	39.90	202.2	2,252.7	390.3	1,777	1,262	337.7	153.0	78.8	52.4	39.54
MEAN	1.45	1.33	6.52	72.7	13.9	57.3	42.1	10.9	5.10	2.54	1.69	1.32
MAX	5.1	5.3	35	560	19	220	269	16	6.6	4.1	2.3	1.7
MIN	.57	.37	2.8	4.5	5.3	19	13	7.1	3.1	1.5	1.2	.70
AC-FT	89	79	401	4,470	774	3,520	2,500	670	303	156	104	78

CAL YR 1973 TOTAL 8,348.40 MEAN 23.0 MAX 705 MIN .34 AC-FT 16,640
 WTR YR 1974 TOTAL 6,630.61 MEAN 18.2 MAX 560 MIN .37 AC-FT 13,150

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-1	1115	3.22	28	3-1	2300	5.54	515
12-27	1045	3.63	88	3-7	2230	4.64	309
1-7	0745	4.70	321	3-30	0745	5.25	441
1-17	0745	3.83	128	4-1	2115	7.52	1,050
2-25	1400	3.31	41	4-24	0715	3.21	26

NOTE.--No gage-height record Oct. 1 to Nov. 15.

11142100 TORO CREEK NEAR MORRO BAY, CALIF.

LOCATION.--Lat 35°25'31", long 120°51'33", in Moro Y Cayucos Grant, San Luis Obispo County, on left bank at downstream side of county road bridge, 0.3 mi (0.5 km) downstream from small right-bank tributary, and 2.3 mi (3.7 km) north of town of Morro Bay.

DRAINAGE AREA.--14.0 mi² (36.3 km²).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 40 ft (12 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 637 ft³/s (18.0 m³/s) Apr. 4 (gage height, 3.94 ft or 1.201 m); minimum daily, 0.33 ft³/s (0.009 m³/s) Nov. 4-6, 9.

Period of record: Maximum discharge, 4,600 ft³/s (130 m³/s) Jan. 18, 1973 (gage height, 9.65 ft or 2.941 m), from rating curve extended above 140 ft³/s (3.96 m³/s) on basis of slope-area measurement of maximum flow; no flow at times in most years.

REMARKS.--Records fair except those for period of no gage-height record, which are poor. No regulation; small diversion above station for individual use.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.93	.43	5.2	3.8	11	65	152	10	4.4	3.1	2.3	1.3
2	.93	.37	6.2	3.4	10	115	125	9.9	4.4	3.4	2.3	1.3
3	.82	.34	5.8	4.9	9.8	59	67	9.4	4.4	3.2	2.3	1.3
4	1.0	.33	2.3	11.8	9.0	37	48	9.9	4.4	2.9	2.3	1.2
5	1.3	.33	2.1	7.0	8.4	28	38	9.9	4.6	3.1	2.7	1.0
6	1.8	.33	2.0	6.9	7.8	25	33	9.4	4.6	3.1	2.5	1.0
7	2.9	.41	2.0	291	7.2	58	30	9.4	4.4	3.1	2.1	.93
8	2.9	.41	1.8	128	7.1	63	27	9.0	4.1	2.9	1.4	1.0
9	2.0	.33	1.6	67	6.0	37	26	9.0	4.1	2.9	1.4	1.0
10	1.6	.42	1.6	57	6.9	31	23	9.0	4.1	3.1	1.4	1.0
11	2.0	.72	1.4	69	6.0	26	22	8.5	4.1	2.9	1.6	.93
12	2.0	2.0	1.4	48	6.9	23	20	8.1	4.1	2.7	1.6	.93
13	1.3	1.8	1.4	37	6.9	20	20	7.7	3.8	2.5	1.6	1.0
14	1.3	1.2	1.6	31	7.7	19	18	7.7	3.6	2.5	1.6	1.0
15	1.4	.80	1.4	28	8.1	16	17	6.5	3.8	2.5	1.4	1.0
16	1.6	1.2	1.4	30	8.1	15	17	6.2	3.8	2.5	1.4	.93
17	1.6	1.9	1.4	65	8.1	15	17	6.2	4.1	2.3	1.4	.93
18	1.6	2.3	1.4	44	7.7	13	16	5.8	4.4	2.3	1.4	.93
19	1.6	2.0	1.4	39	8.1	13	15	5.8	4.4	2.1	1.8	.93
20	1.7	1.8	1.4	34	6.2	13	15	5.5	4.1	2.1	1.5	.93
21	2.3	1.8	4.1	29	6.2	12	14	5.2	3.8	2.0	1.5	.93
22	4.7	2.0	3.6	26	6.5	12	13	5.2	3.6	2.1	1.4	1.0
23	3.5	2.0	3.4	23	5.8	11	15	4.9	3.6	2.0	1.4	1.0
24	2.3	2.0	3.1	20	6.5	11	16	4.9	3.6	2.0	1.3	1.0
25	1.9	2.3	3.1	19	5.8	11	13	4.9	3.4	2.0	1.4	1.0
26	1.3	2.5	2.9	17	5.2	12	12	4.4	3.1	2.0	1.4	1.0
27	1.0	2.9	15	16	7.3	13	12	4.4	3.1	2.0	1.4	1.0
28	.79	2.7	7.3	15	6.0	85	11	4.4	3.1	2.0	1.3	1.0
29	.69	2.9	5.2	14	-----	52	11	4.1	3.1	2.0	1.3	.93
30	.57	2.9	4.1	13	-----	78	10	4.1	3.1	2.0	1.3	.93
31	.48	-----	3.6	12	-----	39	-----	4.1	-----	2.1	1.3	-----
TOTAL	51.81	43.42	100.2	1,441.1	209.0	1,027	873	213.5	117.4	77.4	51.0	30.33
MEAN	1.67	1.45	3.23	46.5	7.46	33.1	29.1	6.89	3.91	2.50	1.65	1.01
MAX	4.7	2.9	15	291	11	115	152	10	4.6	3.4	2.7	1.3
MIN	.48	.33	1.4	3.4	5.2	11	10	4.1	3.1	2.0	1.3	.93
AC-FT	103	86	199	2,860	415	2,040	1,730	423	233	154	101	60
CAL YR 1973	TOTAL	5,717.43	MEAN	15.7	MAX	849	MIN	.29	AC-FT	11,340		
WTR YR 1974	TOTAL	4,235.16	MEAN	11.6	MAX	291	MIN	.33	AC-FT	8,400		

PEAK DISCHARGE (BASE, 25 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-21	1900	1.63	26	3-1	2230	3.14	341
12-27	1100	1.84	52	3-7	2130	2.62	201
1-4	0215	2.77	237	3-28	0915	2.90	272
1-7	0745	3.71	534	3-30	0630	2.84	256
1-9	2145	2.12	98	4-1	2100	3.94	637
1-17	0615	2.46	165				

NOTE.--No gage-height record Oct. 13 to Nov. 15.

11142500 ARROYO DE LA CRUZ NEAR SAN SIMEON, CALIF.

LOCATION.--Lat 35°43'02", long 121°17'02", in Piedra Blanca Grant, San Luis Obispo County, on right bank 1.7 mi (2.7 km) upstream from mouth, and 7 mi (11 km) northwest of San Simeon.

DRAINAGE AREA.--41.2 mi² (106.7 km²).

PERIOD OF RECORD.--October 1950 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 22 ft (6.7 m), from topographic map.

AVERAGE DISCHARGE.--24 years, 56.9 ft³/s (1.611 m³/s), 41,220 acre-ft (50.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 6,300 ft³/s (178 m³/s) Mar. 1 (gage height, 8.86 ft or 2.701 m); no flow for long periods.

Period of record: Maximum discharge, 35,200 ft³/s (997 m³/s) Dec. 6, 1966 (gage height, 15.27 ft or 4.654 m), from rating curve extended above 7,600 ft³/s (215 m³/s) on basis of slope-area measurements at gage heights 12.40 ft (3.780 m) and 15.27 ft (4.654 m); no flow for long periods in each year.

REMARKS.--Records good. No regulation or diversion above station.

REVISIONS (WATER YEARS).--WSP 1245: 1951.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	910	103	45	2,750	1,020	28	5.2	.16		
2		0	140	68	42	1,620	1,010	27	5.2	.13		
3		0	52	137	40	745	543	26	5.2	.08		
4		0	32	1,480	37	365	389	24	5.2	.08		
5		0	28	597	36	235	301	24	4.8	.08		
6		0	23	1,690	34	172	251	23	4.5	.08		
7		0	20	2,450	33	420	216	21	3.8	.08		
8		0	17	855	30	436	188	21	3.8	.07		
9		0	15	405	30	224	176	20	3.8	.10		
10		0	14	233	28	169	150	19	3.5	.19		
11		0	12	163	28	137	133	17	2.9	.08		
12		0	12	161	27	117	120	16	2.9	.05		
13		0	11	135	28	99	108	15	2.7	.02		
14		0	14	98	26	85	99	14	2.4	.02		
15		0	11	81	25	74	90	13	2.2	0		
16		.05	4.5	200	24	67	82	13	2.0	0		
17		98	9.0	1,090	23	60	77	12	1.8	0		
18		78	8.1	426	22	55	72	12	1.7	0		
19		21	7.1	279	24	51	64	12	1.7	0		
20		10	6.6	205	23	49	60	12	1.5	0		
21		7.2	211	156	20	45	55	11	1.1	0		
22		25	275	121	19	43	51	11	.82	0		
23		64	89	100	18	39	55	11	.72	0		
24		30	64	87	17	38	62	11	.56	0		
25		20	54	78	16	39	47	11	.49	0		
26		15	48	70	16	53	41	11	.42	0		
27		12	413	62	15	384	38	9.9	.36	0		
28		9.5	220	58	15	1,710	36	9.2	.27	0		
29		9.2	110	54	-----	635	33	6.5	.23	0		
30		8.7	80	50	-----	955	30	6.1	.16	0		
31		-----	64	47	-----	431	-----	5.6	-----	0		-----
TOTAL	0	407.65	2,979.3	11,739	741	12,302	5,597	472.3	71.93	1.22	0	0
MEAN	0	13.6	96.1	379	26.5	397	187	15.2	2.40	.039	0	0
MAX	0	98	910	2,450	45	2,750	1,020	28	5.2	.19	0	0
MIN	0	0	6.6	47	15	38	30	5.6	.16	0	0	0
AC-FT	0	809	5,910	23,280	1,470	24,400	11,100	937	143	2.4	0	0
CAL YR 1973	TOTAL	36,086.57	MEAN	98.9	MAX	4,030	MIN	0	AC-FT	71,580		
WTR YR 1974	TOTAL	34,311.40	MEAN	94.0	MAX	2,750	MIN	0	AC-FT	68,060		

DATE	TIME	PEAK DISCHARGE (BASE, 2,500 FT ³ /S)	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-1	unknown	6.38	2,510	3-28	0645	8.29	5,180
1-4	0130	7.52	3,870	3-30	0745	6.52	2,660
1-7	0830	7.78	4,270	4-1	2130	7.16	3,400
3-1	2215	8.86	6,300				

BIG SUR RIVER BASIN

11143000 BIG SUR RIVER NEAR BIG SUR, CALIF.

LOCATION.--Lat 36°14'45", long 121°46'20", in SW¼SW¼ sec.29, T.19 S., R.2 E., Monterey County, on right bank at downstream side of bridge, 0.4 mi (0.6 km) upstream from Post Creek, and 2.6 mi (4.2 km) southeast of town of Big Sur.

DRAINAGE AREA.--46.5 mi² (120.4 km²).

PERIOD OF RECORD.--March 1950 to current year. Prior to October 1959, published as Sur River at Big Sur.

GAGE.--Water-stage recorder. Altitude of gage is 400 ft (122 m), from topographic map. Prior to Oct. 1, 1951, nonrecording gage at site 0.9 mi (1.4 km) downstream at different datum.

AVERAGE DISCHARGE.--24 years, 95.3 ft³/s (2.699 m³/s), 69,040 acre-ft/yr (85.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,100 ft³/s (59.5 m³/s) Mar. 2 (gage height, 7.57 ft or 2.307 m); minimum daily, 15 ft³/s (0.42 m³/s) Sept. 6, 7.
Period of record: Maximum discharge, 5,680 ft³/s (161 m³/s) Apr. 2, 1958 (gage height, 11.56 ft or 3.523 m); minimum, 3.7 ft³/s (0.10 m³/s) Oct. 7, 1961.

REMARKS.--Records good. No regulation or diversion above station. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1445: 1952(P), 1953(M). WSP 1715: 1951, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	20	556	136	129	1,350	773	133	72	43	27	18
2	17	20	229	118	120	1,460	1,070	127	71	44	27	17
3	17	20	153	147	115	982	811	127	68	44	27	17
4	17	21	120	278	110	725	670	123	67	43	27	17
5	17	21	100	242	105	582	573	122	65	41	27	16
6	16	32	90	290	100	488	504	118	63	41	27	15
7	22	33	80	426	99	547	453	114	61	40	26	15
8	27	29	72	449	94	512	412	111	60	41	26	17
9	24	26	67	366	93	441	390	107	60	47	26	19
10	21	26	61	302	90	394	349	106	58	46	27	18
11	19	27	62	264	88	356	320	102	56	43	27	18
12	19	36	58	339	90	336	299	99	56	40	26	18
13	18	47	63	302	88	305	278	97	55	40	26	19
14	18	52	62	275	84	278	261	96	54	38	26	19
15	18	42	56	256	83	259	245	93	53	37	26	19
16	18	100	53	333	80	242	234	93	53	36	25	19
17	18	296	52	517	79	227	224	91	54	36	24	18
18	18	270	50	408	77	214	216	91	61	36	23	17
19	18	127	48	349	88	202	204	90	59	35	23	18
20	18	90	46	308	80	192	194	88	54	34	23	18
21	23	73	77	273	77	183	185	85	52	33	23	18
22	29	69	120	242	77	175	179	85	49	32	23	17
23	36	63	91	219	73	169	199	83	48	32	22	18
24	31	59	81	202	72	161	194	81	49	32	21	18
25	25	54	76	185	70	161	177	79	47	31	22	18
26	22	51	72	173	70	165	167	77	46	30	22	18
27	21	47	281	161	70	264	153	76	45	30	21	18
28	21	45	240	153	81	762	147	76	44	30	19	19
29	20	42	187	144	-----	511	143	76	43	29	17	19
30	19	75	157	136	-----	715	137	73	43	28	16	18
31	20	-----	138	131	-----	573	-----	73	-----	28	19	-----
TOTAL	643	1,912	3,592	8,174	2,482	13,931	10,161	2,992	1,666	1,140	741	533
MEAN	20.7	63.7	116	264	88.6	449	339	96.5	55.5	36.8	23.9	17.8
MAX	36	296	550	517	129	1,460	1,070	133	72	47	27	19
MIN	16	20	46	118	70	161	137	73	43	28	16	15
AC-FT	1,240	3,790	7,120	16,210	4,920	27,630	20,150	5,930	3,300	2,260	1,470	1,060

CAL YR 1973 TOTAL 61,850 MEAN 169 MAX 2,290 MIN 16 AC-FT 122,700
WTR YR 1974 TOTAL 47,967 MEAN 131 MAX 1,460 MIN 15 AC-FT 95,140

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-1	0500	6.10	1,080	3-30	0700	6.02	1,030
3-2	0015	7.57	2,100	4-1	2215	6.64	1,410
3-28	0600	6.39	1,250				

11143200 CARMEL RIVER AT ROBLES DEL RIO, CALIF.

LOCATION.--Lat 36°28'28", long 121°43'40", in Los Laureles Grant, Monterey County, on downstream side of county road bridge at Robles del Rio, 0.2 mi (0.3 km) downstream from Hitchcock Canyon, and 11 mi (18 km) southeast of town of Carmel.

DRAINAGE AREA.--193 mi² (500 km²).

PERIOD OF RECORD.--August 1957 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 270 ft (82 m), from topographic map.

AVERAGE DISCHARGE (unadjusted).--17 years, 77.1 ft³/s (2.183 m³/s), 55,860 acre-ft/yr (68.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,760 ft³/s (78.2 m³/s) Mar. 2 (gage height, 8.15 ft or 2.484 m); no flow Oct. 1-6.

Period of record: Maximum discharge, 7,100 ft³/s (201 m³/s) Apr. 2, 1958 (gage height, 10.50 ft or 3.200 m); no flow at times in each year.

Flood of Dec. 23, 1955, reached a stage of 11.7 ft (3.57 m), from floodmarks (discharge, 6,930 ft³/s or 196 m³/s by slope-area measurement of peak flow).

REMARKS.--Records good. Flow regulated by Los Padres Reservoir 11 mi (18 km) upstream, capacity, 3,000 acre-ft (3.70 hm³) and San Clemente Reservoir 4 mi (6 km) upstream, capacity, 2,150 acre-ft (2.65 hm³). Diversion from San Clemente Reservoir for municipal supply amounted to 8,940 acre-ft (11.0 hm³) for the current year.

REVISIONS.--WSP 1715: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	1.1	523	140	110	1,300	642	124	44	14	.20	.61
2	0	1.5	327	121	104	2,100	1,320	110	44	12	.19	.60
3	0	2.0	188	185	100	1,350	813	108	40	9.1	.58	.72
4	0	2.4	133	346	94	897	625	104	38	6.8	.54	.41
5	0	2.9	106	239	92	664	515	100	37	3.3	.60	.38
6	0	3.3	88	262	90	534	441	96	38	2.9	.58	.29
7	.03	3.8	77	419	86	604	390	94	48	5.2	.55	.20
8	.07	3.8	65	491	84	539	354	86	8.5	5.7	.48	.16
9	.15	3.3	58	366	81	450	342	71	5.2	6.2	.55	.14
10	.13	3.3	53	301	81	398	308	79	6.2	8.5	.64	.09
11	.13	4.7	49	255	83	370	274	77	4.2	7.9	.77	.05
12	.15	20	50	276	75	342	252	74	3.8	7.9	.80	.03
13	.21	10	45	293	79	315	233	72	3.8	7.9	.75	.03
14	.16	8.7	45	279	72	293	217	72	4.2	7.3	.91	.04
15	.22	11	41	286	70	276	205	70	4.2	5.7	.51	.07
16	.30	37	38	330	69	259	196	69	3.8	3.3	.55	.07
17	.35	59	37	496	67	242	185	67	4.2	1.1	.55	.11
18	.18	79	36	407	67	230	182	67	5.2	1.0	.36	.09
19	.36	40	35	342	77	217	177	67	3.8	1.0	.28	.09
20	.50	27	35	286	75	205	155	65	2.9	1.0	.31	.12
21	.67	23	40	239	70	193	148	64	2.4	.90	.22	.12
22	2.4	22	84	211	69	185	144	61	9.7	.90	.19	.09
23	4.7	22	72	188	67	177	155	50	16	.90	.15	.06
24	2.9	20	65	171	64	171	162	55	16	.90	.12	.06
25	2.4	20	61	160	62	166	160	53	6.2	.80	.20	.08
26	2.4	19	58	148	61	163	150	50	6.2	.80	.30	.32
27	2.0	18	153	138	61	220	143	48	7.3	.80	.26	.39
28	1.5	17	202	131	62	579	133	48	7.9	.80	.50	.46
29	1.5	17	158	121	-----	437	121	48	8.5	.80	.43	.48
30	1.1	19	140	115	-----	500	119	46	12	.90	.74	.16
31	1.1	-----	121	113	-----	459	-----	44	-----	.90	1.0	-----
TOTAL	25.61	520.8	3,183	7,855	2,172	14,840	9,290	2,253	441.2	127.20	15.80	8.64
MEAN	.83	17.4	103	253	77.6	479	310	72.7	14.7	4.10	.51	.22
MAX	4.7	79	523	496	110	2,100	1,320	124	48	14	1.0	.72
MIN	0	1.1	35	113	61	163	119	44	2.4	.80	.12	.03
AC-FT	51	1,030	6,310	15,580	4,310	29,440	18,430	4,470	875	252	31	13

CAL YR 1973 TOTAL 56,021.20 MEAN 153 MAX 2,280 MIN 0 AC-FT 111,100
 WTR YR 1974 TOTAL 40,730.25 MEAN 112 MAX 2,100 MIN 0 AC-FT 80,790

LOCATION.--Lat 36°32'20", long 121°52'25", in Canada de la Segunda Grant, Monterey County, on right bank 0.3 mi (0.5 km) downstream from Potrero Canyon, and 3 mi (5 km) east of Carmel.

PERIOD OF RECORD.--August 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 45 ft (14 m), from topographic map.

AVERAGE DISCHARGE (unadjusted).--12 years, 101 ft³/s (2.860 m³/s), 73,170 acre-ft/yr (90.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,410 ft³/s (68.3 m³/s) Mar. 2 (gage height, 8.83 ft or 2.691 m); minimum daily, 0.07 ft³/s (0.002 m³/s) Oct. 3.

Period of record: Maximum discharge, 8,620 ft³/s (244 m³/s) Jan. 26, 1969 (gage height, 17.30 ft or 5.273 m in gage well, 17.4 ft or 5.30 m, from floodmarks); no flow at times in each year.

REMARKS.--Records good. Flow regulated by Los Padres Reservoir, capacity, 3,000 acre-ft (3.70 hm³) and San Clemente Reservoir, capacity, 2,150 acre-ft (2.65 hm³). Diversion from San Clemente Reservoir for municipal supply amounted to 8,940 acre-ft (11.0 hm³) for the current year.

REVISIONS (WATER YEARS).--WRD Calif. 1969: 1967(M).

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.58	407	150	118	668	700	126	41	4.7	.58	.39
2	.08	.63	386	127	113	1,860	1,630	130	40	6.3	.58	.33
3	.07	.69	247	243	107	1,180	793	119	40	4.8	.49	.30
4	.08	.69	184	590	103	761	661	107	38	3.9	.48	.23
5	.10	.69	148	380	99	607	587	99	37	3.1	.44	.22
6	.10	.82	117	352	96	521	524	93	33	2.6	.44	.22
7	.12	.89	100	502	94	528	475	89	37	1.5	.41	.17
8	.13	.97	83	568	92	556	441	83	32	1.6	.35	.17
9	.25	.89	71	438	90	441	427	77	19	1.7	.41	.16
10	.20	.89	65	367	88	443	396	71	15	2.4	.33	.19
11	.20	1.1	60	327	90	417	365	71	12	3.2	.39	.23
12	.25	2.9	57	322	87	396	342	71	10	3.4	.37	.17
13	.35	1.1	55	337	87	368	317	68	8.5	3.5	.37	.16
14	.25	1.1	52	319	85	348	298	66	7.6	3.6	.34	.18
15	.35	.89	50	327	82	331	282	64	6.4	3.0	.31	.21
16	.48	1.2	47	349	80	308	270	63	5.6	1.4	.27	.25
17	.58	2.4	43	490	79	292	257	63	5.6	.88	.26	.23
18	.63	1.5	42	444	77	281	238	59	5.3	.80	.25	.24
19	.63	1.1	39	372	81	264	230	59	5.3	.76	.26	.24
20	.69	1.1	39	327	85	253	215	59	5.0	.76	.29	.23
21	.69	1.1	41	289	79	239	198	59	4.1	.76	.39	.19
22	1.1	1.2	71	255	76	228	205	57	3.6	.68	.41	.19
23	1.3	1.1	76	231	74	218	220	53	3.1	.68	.29	.19
24	.69	2.0	67	207	74	208	240	53	5.3	.68	.26	.16
25	.75	3.5	62	189	73	201	185	51	6.7	.60	.32	.14
26	.75	5.1	59	174	70	198	178	49	3.8	.60	.29	.15
27	.82	6.1	174	159	70	200	165	44	2.8	.60	.25	.13
28	.75	6.1	254	147	69	700	148	42	2.8	.60	.26	.17
29	.69	10	191	139	-----	580	128	42	2.8	.60	.24	.20
30	.63	19	159	132	-----	620	122	42	2.6	.68	.26	.22
31	.63	-----	136	123	-----	580	-----	41	-----	.68	.36	-----
TOTAL	14.44	77.33	3,582	9,376	2,418	14,855	11,257	2,170	440.9	61.06	10.45	6.26
MEAN	.47	2.58	116	302	86.4	479	375	70.0	14.7	1.97	.35	.21
MAX	1.3	19	407	590	118	1,860	1,630	130	41	6.3	.58	.39
MIN	.07	.58	39	123	69	198	122	41	2.6	.60	.24	.13
AC=FT	29	153	7,100	18,600	4,800	29,460	22,330	4,300	875	121	22	12
CAL YR 1973	TOTAL 77,711.55	MEAN 213	MAX 3,830	MIN .05	AC=FT 154,100							
WTR YR 1974	TOTAL 44,268.94	MEAN 121	MAX 1,860	MIN .07	AC=FT 87,810							

11143300 ARROYO DEL REY AT DEL REY OAKS, CALIF.

LOCATION (corrected).--Lat 36°35'40", long 121°50'37", in Noche Buena Grant, Monterey County, on right bank at culvert on Rosita Avenue, at Del Rey Oaks, and 0.5 mi (0.8 km) upstream from State Highway 1.

DRAINAGE AREA.--14.2 mi² or 36.8 km² (corrected).

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 15 ft (4.6 m), from topographic map.

AVERAGE DISCHARGE.--8 years, 0.80 ft³/s (0.0227 m³/s), 580 acre-ft/yr (715,000 m³/yr).

EXTREMES.--Current year: Maximum discharge, 64 ft³/s (1.81 m³/s) Jan. 3 (gage height, 4.24 ft or 1.292 m), from rating curve extended above 26 ft³/s (0.736 m³/s); no flow many days.

Period of record: Maximum discharge, 64 ft³/s (1.81 m³/s) Jan. 3, 1974 (gage height, 4.24 ft or 1.292 m), from rating curve extended above 26 ft³/s (0.736 m³/s); no flow at times.

REMARKS.--Records poor. No regulation or diversion above station.

REVISIONS (WATER YEARS).--WRD Calif. 1971: 1967.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	0	3.8	.90	.59	.82	16	.06	.39	.09	.06	.13
2	.06	0	1.2	.49	.59	3.0	20	.03	.06	.09	.09	.09
3	.06	0	.83	13	.49	5.0	4.5	.06	.06	.09	.09	.09
4	.06	0	.75	13	.49	1.3	2.3	.06	.06	.09	.06	.09
5	.09	0	.59	4.2	.39	.67	1.7	.13	.06	.09	.06	.09
6	.06	.09	.17	3.6	.59	.49	1.5	.39	.06	.09	.06	.09
7	2.2	0	.13	22	.59	2.0	1.1	.39	.06	.13	.09	.09
8	.02	0	.13	14	.59	2.0	.98	.13	.09	.59	.06	.39
9	0	0	.13	5.8	.49	1.2	1.5	.12	.09	.49	.06	.13
10	0	0	.13	3.4	.49	.90	1.4	.13	.09	.06	.06	.09
11	0	.09	.13	3.0	.49	.82	.90	.13	.09	.06	.06	.07
12	0	1.7	.13	2.6	.49	.67	.49	.09	.09	.06	.06	.06
13	0	.22	.39	2.1	.49	.59	.22	.13	.09	.06	.06	.06
14	0	.22	.13	1.7	.49	.59	.22	.13	.09	.06	.06	.06
15	0	.13	.13	1.6	.49	.22	.22	.09	.09	.06	.06	.06
16	.59	.75	.09	2.0	.49	.13	.06	.13	.09	.03	.06	.06
17	0	1.2	.13	2.6	.39	.13	.03	.13	.09	.06	.06	.06
18	0	1.6	.13	2.0	.39	.13	.22	.13	.39	.06	.06	.06
19	0	.75	.13	1.6	.82	.13	.03	.13	.13	.06	.06	.06
20	0	.75	.13	1.5	.39	.13	.02	.13	.13	.06	.06	.06
21	0	.67	1.1	1.3	.39	.22	.13	.13	.22	.06	.06	.06
22	.03	1.1	1.5	.90	.22	.22	.22	.13	.22	.06	.06	.03
23	.49	.90	.75	.82	.13	.22	.59	.39	.22	.06	.06	.04
24	0	.67	.39	.98	.13	.22	1.8	.09	.13	.06	.09	.04
25	0	.75	.39	.82	.13	.39	.59	.09	.13	.06	.39	.06
26	0	.75	.75	.82	.13	.22	.22	.09	.13	.06	.22	.06
27	0	.39	4.0	.75	.13	.59	.22	.09	.22	.06	.09	.06
28	0	.49	.90	.67	.39	9.9	.22	.13	.22	.06	.09	.06
29	0	.67	.82	.49	-----	2.8	.22	.09	.13	.06	.09	.05
30	0	.98	.59	.59	-----	2.0	.13	.09	.09	.06	.09	.05
31	0	-----	.67	.59	-----	1.5	-----	.06	-----	.06	.09	-----
TOTAL	3.72	14.87	21.24	109.82	11.88	39.20	57.73	4.10	4.01	3.04	2.62	2.40
MEAN	.12	.50	.69	3.54	.42	1.26	1.92	.13	.13	.098	.085	.080
MAX	2.2	1.7	4.0	22	.82	9.9	20	.39	.39	.59	.39	.39
MIN	0	0	.09	.49	.13	.13	.02	.03	.06	.03	.06	.03
AC-FT	7.4	29	42	218	24	78	115	8.1	8.0	6.0	5.2	4.8
CAL YR 1973	TOTAL 727.70 MEAN 1.99 MAX 32 MIN 0 AC-FT 1,440											
WTR YR 1974	TOTAL 274.63 MEAN .75 MAX 22 MIN 0 AC-FT 545											

PEAK DISCHARGE (BASE, 18 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
1-3	2215	4.24	64	3-28	0700	3.73	25
1-7	1115	3.87	38	4-1	2200	4.12	58
3-3	0345	3.66	20				

SALINAS RIVER BASIN

11143500 SALINAS RIVER NEAR POZO, CALIF.

LOCATION.--Lat 35°17'55", long 120°24'10", in NE¼ sec.19, T.30 S., R.15 E., San Luis Obispo County, on right bank at downstream side of county road bridge, 1.0 mi (1.6 km) downstream from Pozo Creek, 1.6 mi (2.6 km) west of Pozo, and 7.4 mi (11.9 km) upstream from Salinas Dam.

DRAINAGE AREA.--70.3 mi² (182.1 km²).

PERIOD OF RECORD.--July 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,347.78 ft (410.803 m) above mean sea level. Prior to May 13, 1969, water-stage recorder at site 0.4 mi (0.6 km) downstream at same datum.

AVERAGE DISCHARGE.--32 years, 17.3 ft³/s (0.490 m³/s), 12,530 acre-ft/yr (15.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,960 ft³/s (55.5 m³/s) Jan. 7 (gage height, 14.68 ft or 4.474 m), from rating curve extended above 510 ft³/s (14.4 m³/s); minimum daily, 0.62 ft³/s (0.018 m³/s) Oct. 3, Sept. 1, 2.

Period of record: Maximum discharge, 18,600 ft³/s (527 m³/s) Jan. 25, 1969 (gage height, 13.90 ft or 4.237 m in gage well, 15.5 ft or 4.72 m, site then in use, from floodmarks), from rating curve extended above 7,100 ft³/s (201 m³/s) on basis of slope-area measurement of maximum flow; no flow at times.

REVISIONS.--The maximum discharge for the water year 1973 has been revised to 5,390 ft³/s (153 m³/s) Feb. 11, 1973 (gage height, 17.15 ft or 5.227 m), superseding figure published in WRD Calif. 1973.

REMARKS.--Records fair. No regulation or diversion above station. Water is stored in Santa Margarita Lake below station. Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1565: 1943(M). Revised figures of discharge, in cubic feet per second, for high-water periods in water year 1973, superseding figures published in WRD Calif. 1973 are given below:

1973	
Jan. 18.....	984
Feb. 10.....	904
11.....	2,200
12.....	587
28.....	671

Month	Cfs-days	Max	Min	Mean	Ac-ft
January	1,705.9	984	1.3	55.0	3,380
February	6,622.9	2,200	8.3	237	13,140
WTR YR 1973	12,550.01	2,200	.01	34.4	24,890

REVISED PEAK DISCHARGE.--1973: Jan. 18 (1630) 4,560 ft³/s (16.67 ft); Feb. 11 (0615) 5,390 ft³/s (17.15 ft); Feb. 28 (0545) 1,310 ft³/s (13.94 ft).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	.94	3.2	2.3	10	25	5.4	5.0	3.0	1.8	1.1	.62
2	.82	1.1	2.6	2.3	9.4	302	47	4.4	3.0	1.1	1.3	.62
3	.62	1.1	2.5	2.3	8.9	369	20	4.4	3.0	2.1	1.3	.72
4	.72	1.1	2.1	11	8.0	142	11	4.4	3.0	2.0	1.3	.82
5	1.1	1.1	2.3	7.2	6.9	80	8.3	4.4	3.0	2.1	1.6	1.2
6	1.2	1.1	2.3	31.8	6.6	52	7.2	4.4	3.0	2.1	1.7	1.4
7	1.2	1.1	2.3	1,150	6.1	65	5.4	4.2	2.8	1.8	1.8	1.6
8	.94	1.2	2.3	273	6.1	88	5.4	4.2	2.8	2.0	2.3	1.2
9	1.2	1.2	2.3	84	5.6	59	4.7	4.0	2.8	2.0	2.5	1.1
10	1.1	1.2	2.3	54	5.6	36	4.7	4.0	2.8	1.8	1.8	1.2
11	1.1	1.8	2.1	42	5.4	24	3.8	4.0	2.8	1.7	1.4	1.2
12	1.1	1.6	2.1	50	5.4	17	3.8	4.0	2.8	1.1	1.6	1.8
13	.94	1.4	2.1	56	5.2	13	3.8	4.0	2.8	1.0	1.3	1.6
14	.94	1.6	2.3	40	4.9	10	3.8	4.0	2.8	1.6	1.3	1.2
15	.94	1.7	2.3	34	4.9	8.3	3.6	4.0	2.6	1.7	1.6	1.2
16	.72	1.8	2.3	31	4.9	7.2	3.6	3.8	2.6	1.7	1.4	1.2
17	.72	3.4	2.3	84	4.9	6.4	3.6	3.8	2.9	1.8	1.4	1.2
18	.94	2.0	2.3	63	4.7	5.4	3.6	3.8	2.9	1.4	1.2	1.2
19	1.2	1.7	2.1	46	4.7	5.4	3.6	3.6	2.8	1.4	1.3	.82
20	1.4	1.7	2.1	33	4.7	4.7	3.6	3.6	2.8	1.3	.94	.94
21	1.4	1.7	2.3	28	4.7	4.7	3.6	3.6	2.8	1.3	1.1	.82
22	1.7	1.8	2.5	23	4.7	4.7	3.6	3.4	2.9	1.6	1.3	.94
23	1.6	1.7	2.3	20	4.4	3.8	4.7	3.4	2.7	.94	1.2	1.2
24	1.4	1.6	2.3	19	4.4	3.8	9.2	3.4	2.5	1.1	1.3	.72
25	1.6	1.6	2.3	16	4.4	3.8	10	3.4	2.5	.82	1.3	1.1
26	1.4	1.6	2.1	15	4.4	3.8	8.2	3.2	2.4	.82	1.1	.94
27	1.6	1.6	2.1	14	4.4	4.7	7.6	3.2	2.4	.72	.82	.82
28	1.4	1.6	2.1	12	4.4	3.8	8.1	3.0	2.1	.82	.82	1.1
29	1.3	2.0	2.1	12	-----	4.7	7.0	3.0	1.8	.72	.72	.82
30	1.2	8.9	2.1	11	-----	5.4	5.7	3.0	1.7	1.1	.72	.82
31	1.3	-----	2.1	10	-----	6.1	-----	3.0	-----	1.2	.72	-----
TOTAL	35.90	53.94	70.5	2,563.1	158.7	1,368.7	223.6	117.6	80.2	45.74	41.24	32.12
MEAN	1.16	1.80	2.27	82.7	5.67	44.2	7.45	3.79	2.67	1.68	1.33	1.07
MAX	1.7	8.9	3.2	1,150	10	369	47	5.0	3.0	2.1	2.5	1.8
MIN	.62	.94	2.1	2.3	4.4	3.8	3.6	3.0	1.7	.82	.72	.62
AC-FT	71	107	140	5,080	315	2,710	444	233	159	91	82	64

CAL YR 1973 TOTAL 12,594.32 MEAN 34.5 MAX 2,200 MIN .30 AC-FT 24,940
WTR YR 1974 TOTAL 4,791.34 MEAN 13.1 MAX 1,150 MIN .62 AC-FT 9,500

PEAK DISCHARGE (BASE, 300 FT³/S).--Jan. 7 (0515) 1,960 ft³/s (14.68 ft); Mar. 3 (0830) 635 ft³/s (12.87 ft).

11144000 TORO CREEK NEAR POZO, CALIF.

LOCATION.--Lat 35°19'26", long 120°25'13", in SE¼ sec.12, T.30 S., R.14 E., San Luis Obispo County, on left bank 300 ft (91 m) upstream from mouth, and 3 mi (5 km) northwest of Pozo.

DRAINAGE AREA.--9.56 mi² (24.76 km²).

PERIOD OF RECORD.--June 1942 to September 1969, October 1971 to current year. Prior to October 1961 low-water records only. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,312.99 ft (400.199 m) above mean sea level. Prior to Dec. 8, 1961, at site 250 ft (76 m) downstream at datum 11.83 ft (3.606 m) lower.

AVERAGE DISCHARGE.--11 years (1961-69, 1970-74), 0.83 ft³/s (0.0235 m³/s), 601 acre-ft/yr (741,000 m³/yr).

EXTREMES.--Current year: Maximum discharge, 14 ft³/s (0.40 m³/s) Jan. 7 (gage height, 3.91 ft or 1.192 m), from rating curve extended above 1.5 ft³/s (0.042 m³/s) as explained below; minimum daily, 0.04 ft³/s (0.001 m³/s) Sept. 19.

Period of record: Maximum discharge, 2,400 ft³/s (68.0 m³/s) Feb. 24, 1969 (gage height, 8.3 ft or 2.53 m, from floodmarks), from rating curve extended above 30 ft³/s (0.850 m³/s) on basis of slope-area measurements at gage heights 5.11 ft (1.558 m) and 7.3 ft (2.23 m); no flow at times.

REMARKS.--Records fair. Small diversions above station for irrigation and stock reservoir.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.19	.24	2.4	.55	.77	3.0	1.2	.46	.46	.19	.38	.15
2	.26	.24	.77	.55	.77	2.4	.90	.47	.37	.24	.30	.19
3	.30	.30	.66	.66	.77	2.2	.77	.66	.46	.30	.11	.27
4	.24	.19	.66	2.7	.66	1.0	.77	.77	.46	.24	.30	.30
5	.24	.24	.66	1.6	.55	.90	.77	.66	.46	.24	.24	.29
6	.24	.30	.55	3.0	.55	.77	.77	.66	.46	.19	.19	.21
7	.46	.30	.46	7.7	.55	1.8	.66	.66	.37	.06	.19	.21
8	.55	.30	.37	1.6	.30	1.0	.66	.66	.11	.19	.15	.16
9	.55	.37	.46	.90	.30	.77	.77	.66	.19	.19	.24	.14
10	.46	.30	.46	.77	.37	.66	.77	.66	.24	.24	.11	.12
11	.46	.30	.46	.77	.46	.66	.77	.66	.30	.19	.30	.16
12	.37	1.0	.46	.90	.46	.66	.66	.66	.37	.24	.19	.19
13	.30	.55	.55	.77	.55	.66	.66	.77	.37	.24	.19	.18
14	.24	.66	.55	.66	.37	.66	.66	.66	.37	.15	.19	.11
15	.24	.46	.55	.66	.46	.55	.46	.66	.37	.19	.11	.13
16	.30	.66	.55	.98	.55	.55	.58	.66	.30	.06	.15	.32
17	.24	2.3	.55	1.2	.55	.55	.77	.66	.30	.19	.19	.16
18	.08	1.2	.55	.77	.55	.55	.66	.66	.30	.19	.19	.09
19	.03	.77	.55	.77	.55	.55	.77	.66	.24	.11	.19	.04
20	.19	.77	.55	.66	.55	.66	.77	.55	.24	.15	.15	.10
21	.24	.66	.66	.66	.55	.55	.55	.66	.19	.24	.11	.18
22	.37	.90	.66	.66	.55	.55	.46	.66	.19	.24	.11	.15
23	.37	.66	.55	.77	.55	.55	.66	.66	.15	.19	.11	.13
24	.19	.66	.55	.77	.66	.55	.77	.55	.11	.24	.11	.13
25	.24	.66	.55	.77	.66	.66	.66	.55	.11	.19	.19	.14
26	.24	.37	.55	.77	.66	.66	.55	.55	.15	.24	.37	.22
27	.24	.37	.55	.77	.66	.77	.66	.55	.15	.30	.30	.27
28	.24	.46	.55	.77	.66	.90	.55	.66	.08	.24	.37	.23
29	.30	.46	.55	.77	-----	.77	.46	.66	.15	.24	.37	.18
30	.19	.46	.55	.77	-----	.90	.30	.46	.15	.30	.24	.23
31	.19	-----	.55	.77	-----	.77	-----	.46	-----	.37	.24	-----
TOTAL	8.80	17.11	19.04	36.42	15.59	28.18	20.42	19.34	8.17	6.58	6.58	5.38
MEAN	.28	.57	.61	1.17	.56	.91	.68	.62	.27	.21	.21	.18
MAX	.55	2.3	2.4	7.7	.77	3.0	1.2	.77	.46	.37	.38	.32
MIN	.08	.19	.37	.55	.30	.55	.30	.46	.08	.06	.11	.04
AC-FT	17	34	38	72	31	56	41	38	16	13	13	11

CAL YR 1973 TOTAL 334.20 MEAN .92 MAX 27 MIN .03 AC-FT 663
WTR YR 1974 TOTAL 191.61 MEAN .53 MAX 7.7 MIN .04 AC-FT 380

PEAK DISCHARGE (BASE, 15 FT³/S).--No peak above base.

SALINAS RIVER BASIN

11144200 SALSIPUEDES CREEK NEAR POZO, CALIF.

LOCATION.--Lat 35°17'34", long 120°27'07", in NW¼SW¼ sec.23, T.30 S., R.14 E., San Luis Obispo County, on left bank 1.9 mi (3.1 km) upstream from mouth, and 4.4 mi (7.1 km) west of Pozo.

DRAINAGE AREA.--5.91 mi² (15.31 km²).

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 1,480 ft (451 m), from topographic map.

AVERAGE DISCHARGE.--5 years, 1.85 ft³/s (0.0524 m³/s), 1,340 acre-ft/yr (1.65 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 504 ft³/s (14.3 m³/s) Jan. 6 (gage height, 3.56 ft or 1.085 m), from rating curve extended as explained below; no flow for long periods.

Period of record: Maximum discharge, 1,010 ft³/s (28.6 m³/s) Jan. 18, 1973 (gage height, 4.58 ft or 1.396 m), from rating curve extended above 67 ft³/s (1.90 m³/s) on basis of slope-area measurement of maximum flow; no flow for long periods in each year.

REMARKS.--Records good. No regulation or diversion above station.

REVISIONS (WATER YEARS).--WRD Calif. 1972: 1970-71(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	.46	.22	1.5	.47	11	.74	.18	.01	0	
2	0	0	3.0	.14	1.3	.85	14	.72	.14	.02	0	
3	0	0	1.2	.14	1.1	.46	8.0	.64	.14	.02	.01	
4	0	0	.55	.35	1.1	19	5.2	.64	.11	.01	.01	
5	0	0	.36	.23	.94	12	5.2	.64	.11	.02	.01	
6	0	0	.26	141	.83	9.8	4.3	.64	.11	.02	.01	
7	0	0	.18	187	.73	24	3.5	.56	.08	.02	.02	
8	0	0	.14	.26	.73	25	3.1	.49	.08	.02	.01	
9	0	0	.11	12	.64	13	2.9	.42	.08	.02	.02	
10	0	0	.11	1.6	.64	9.8	2.6	.42	.08	.02	.01	
11	0	0	.08	5.1	.64	8.4	2.3	.42	.08	.02	.01	
12	.02	0	.06	2.4	.64	7.3	2.1	.42	.08	.02	.01	
13	0	0	.08	5.8	.56	6.2	2.0	.42	.06	.01	.02	
14	0	0	.08	4.5	.56	5.5	1.7	.36	.06	.02	.01	
15	0	0	.04	3.5	.56	4.8	1.6	.36	.06	.01	.01	
16	0	0	.04	6.9	.49	4.5	1.5	.36	.06	.01	.01	
17	11	0	.04	25	.49	4.1	1.4	.36	.06	.01	0	
18	8.4	0	.04	12	.49	3.8	1.4	.36	.04	.01	0	
19	.22	0	.04	8.0	.49	3.8	1.3	.36	.04	.01	0	
20	.03	0	.04	6.5	.42	3.5	1.2	.36	.03	.02	0	
21	.01	0	.08	5.1	.42	3.5	1.2	.36	.02	.01	0	
22	.83	0	.94	4.1	.36	3.3	1.0	.31	.02	.01	0	
23	.73	0	.36	3.5	.36	3.3	1.0	.31	.02	.02	0	
24	.14	0	.26	3.0	.36	3.3	1.2	.31	.02	.01	0	
25	.08	0	.22	2.7	.31	3.0	1.1	.31	.01	.01	0	
26	.06	0	.18	2.5	.31	3.3	1.0	.26	.01	.01	0	
27	.06	0	.18	2.0	.31	4.8	.92	.31	.01	.01	0	
28	.04	0	.14	1.8	.31	7.3	.87	.31	.01	.01	0	
29	.04	0	.14	1.8	-----	4.5	.82	.26	.01	.01	0	
30	.08	0	.14	1.6	-----	8.7	.78	.22	.01	0	0	
31	-----	0	.11	1.5	-----	5.5	-----	.18	-----	.01	0	-----
TOTAL	0	21.78	55.21	549.40	17.59	393.0	87.19	12.83	1.82	.43	.17	0
MEAN	0	.73	1.74	17.7	.63	12.7	2.91	.41	.061	.014	.006	0
MAX	0	11	46	187	1.5	85	14	.74	.18	.02	.02	0
MIN	0	0	.04	.14	.31	3.0	.78	.18	.01	0	0	0
AC-FT	0	43	110	1,090	35	780	173	25	3.6	.9	.3	0
CAL YR 1973	TOTAL	1,678.16	MEAN	4.60	MAX	183	MIN	0	AC-FT	3,330		
WTR YR 1974	TOTAL	1,139.42	MEAN	3.12	MAX	187	MIN	0	AC-FT	2,260		

PEAK DISCHARGE (BASE, 25 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-17	1915	2.08	106	1-17	0600	1.69	55
12-1	0315	2.64	215	3-1	2315	3.17	363
1-4	0230	2.13	114	3-7	1945	2.02	97
1-6	2145	3.56	504	4-1	2145	1.57	43

11144500 SANTA MARGARITA LAKE NEAR POZO, CALIF.

LOCATION.--Lat 35°20'14", long 120°30'08", in NW¼NW¼ sec.8, T.30 S., R.14 E., San Luis Obispo County, at left end of dam on Salinas River, 2 mi (3 km) upstream from Pilitas Creek, and 7.5 mi (12.1 km) northwest of Pozo.

DRAINAGE AREA.--112 mi² (290 km²).

PERIOD OF RECORD.--December 1941 to current year. Prior to October 1967, published as Salinas Reservoir near Pozo.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Mar. 9, 1942, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum contents, 27,100 acre-ft (33.4 hm³) Mar. 3 (elevation, 1,302.38 ft or 396.965 m); minimum, 19,800 acre-ft (24.4 hm³) Dec. 29 to Jan. 3.
Period of record: Maximum contents, 37,000 acre-ft (45.6 hm³) Jan. 25, 1969 (elevation, 1,313.30 ft or 400.294 m); minimum, 1,730 acre-ft (2.13 hm³) Nov. 6-10, 1943.

REMARKS.--Reservoir is formed by concrete-arch dam, outlet closed Dec. 6, 1941. Usable capacity, 26,000 acre-ft (32.1 hm³) between elevations 1,220.3 ft (371.95 m), bottom of outlet pipe and 1,301.0 ft (396.54 m), spillway crest, above mean sea level. Water diverted at dam into pipeline to small reservoir 10 mi (16 km) below, from which it is pumped to Camp San Luis Obispo and city of San Luis Obispo for water supply; water is also released down natural channel of river. Figures given herein represent usable contents.

REVISIONS.--WSP 1715: Drainage area.

CAPACITY TABLE (ELEVATION, IN FEET, AND CONTENTS, IN ACRE-FEET)

1,220.3	0	1,245	2,100	1,270	8,650	1,295	21,700
1,225	210	1,250	3,000	1,275	10,600	1,300	25,200
1,230	510	1,255	4,100	1,280	12,800	1,310	33,700
1,235	880	1,260	5,400	1,285	15,300	1,320	44,400
1,240	1,400	1,265	6,900	1,290	18,300	1,325	50,400

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20,800	20,200	20,400	19,800	26,000	26,300	26,000	26,000	25,200	24,200	23,100	21,900
2	20,800	20,100	20,400	19,800	26,000	26,900	26,000	26,000	25,200	24,200	23,100	21,900
3	20,800	20,100	20,400	19,800	26,000	27,000	26,000	26,000	25,200	24,100	23,000	21,800
4	20,700	20,100	20,400	20,200	26,000	26,600	25,900	25,900	25,200	24,100	23,000	21,800
5	20,700	20,100	20,400	20,300	26,000	26,300	25,900	25,900	25,100	24,100	22,900	21,800
6	20,700	20,000	20,400	21,600	26,000	26,000	25,900	25,900	25,100	24,000	22,900	21,700
7	20,700	20,000	20,300	25,000	26,000	26,100	25,900	25,900	25,100	24,000	22,800	21,700
8	20,600	20,000	20,300	25,800	26,000	26,300	26,000	25,900	25,000	23,900	22,800	21,700
9	20,600	20,000	20,300	26,000	26,000	26,300	26,000	25,900	25,000	23,900	22,800	21,600
10	20,600	20,000	20,200	26,200	26,000	26,200	26,000	25,800	25,000	23,900	22,700	21,600
11	20,600	20,000	20,200	26,300	26,000	26,000	26,000	25,800	24,900	23,800	22,700	21,600
12	20,600	20,000	20,200	26,300	26,000	25,900	26,000	25,800	24,900	23,800	22,700	21,500
13	20,500	20,000	20,100	26,300	26,000	25,900	26,000	25,800	24,900	23,800	22,600	21,500
14	20,500	20,000	20,100	26,200	26,000	26,000	26,000	25,700	24,800	23,700	22,600	21,500
15	20,500	20,000	20,100	26,100	26,000	26,000	26,000	25,700	24,800	23,700	22,500	21,400
16	20,500	20,000	20,000	26,100	26,000	26,000	26,000	25,700	24,700	23,700	22,500	21,400
17	20,400	20,100	20,000	26,300	26,000	26,100	26,000	25,700	24,700	23,600	22,500	21,400
18	20,400	20,200	20,000	26,300	26,000	26,100	26,000	25,600	24,700	23,600	22,400	21,300
19	20,400	20,200	20,000	26,200	26,000	26,100	26,000	25,600	24,700	23,500	22,400	21,300
20	20,400	20,200	20,000	26,100	26,000	26,100	26,000	25,600	24,600	23,500	22,400	21,300
21	20,300	20,200	20,000	26,100	26,000	26,100	26,000	25,600	24,600	23,500	22,300	21,200
22	20,400	20,200	19,900	26,000	26,000	26,100	26,000	25,500	24,600	23,400	22,300	21,200
23	20,300	20,200	19,900	26,000	26,000	26,100	26,000	25,500	24,500	23,400	22,200	21,200
24	20,300	20,100	19,900	26,000	26,000	26,100	26,000	25,500	24,500	23,400	22,200	21,100
25	20,300	20,100	19,900	26,000	26,000	26,100	26,000	25,500	24,400	23,300	22,200	21,100
26	20,300	20,100	19,900	26,000	26,000	26,100	26,000	25,400	24,400	23,300	22,100	21,100
27	20,300	20,100	19,900	26,000	26,000	26,100	26,000	25,400	24,300	23,200	22,100	21,000
28	20,200	20,100	19,900	26,000	26,000	26,200	26,000	25,400	24,300	23,200	22,100	21,000
29	20,200	20,000	19,800	26,000	-----	26,200	26,000	25,300	24,300	23,200	22,000	21,000
30	20,200	20,000	19,800	26,000	-----	26,200	26,000	25,300	24,200	23,100	22,000	20,900
31	20,200	-----	19,800	26,000	-----	26,100	-----	25,300	-----	23,100	22,000	-----
MAX	20,800	20,200	20,400	26,300	26,000	27,000	26,000	26,000	25,200	24,200	23,100	21,900
MIN	20,200	20,000	19,800	19,800	26,000	25,900	25,900	25,300	24,200	23,100	22,000	20,900
(a)	1,292.82	1,292.63	1,292.31	1,301.02	1,300.94	1,301.16	1,300.99	1,300.09	1,298.61	1,297.02	1,295.37	1,293.89
(b)	-700	-200	-200	+6,200	0	+100	-100	-700	-1,100	-1,100	-1,100	-1,100
(c)	453	342	311	276	314	212	310	509	594	626	617	566

CAL YR 1973 b +8,800 c 5,190
WTR YR 1974 b 0 c 5,130

a Elevation, in feet, at end of month.

b Change in contents, in acre-feet.

c Diversion, in acre-feet, for municipal supply; furnished by county of San Luis Obispo.

SALINAS RIVER BASIN

11144600 SALINAS RIVER BELOW SALINAS DAM, NEAR POZO, CALIF.

LOCATION.--Lat 35°20'07", long 120°30'10", in NW¼NW¼ sec.8, T.30 S., R.14 E., San Luis Obispo County, on left bank 900 ft (274 m) downstream from Salinas Dam, 2 mi (3 km) upstream from Pilitas Creek, and 7.5 mi (12.1 km) northwest of Pozo.

DRAINAGE AREA.--112 mi² (290 km²).

PERIOD OF RECORD.--October 1973 to September 1974.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 1,180 ft (360 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 652 ft³/s (18.5 m³/s) Mar. 4 (gage height, 4.67 ft or 1.423 m); minimum daily, 0.29 ft³/s (0.008 m³/s) Jan. 5.

REMARKS.--Records good. Flow completely regulated by Santa Margarita Lake 900 ft (274 m) upstream and water diverted to Camp San Luis Obispo and city of San Luis Obispo (see sta 11144500).

COOPERATION.--One discharge measurement furnished by San Luis Obispo County Engineering Department.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.1	7.6	3.3	7.4	5.5	78	2.1	2.0	3.5	.78	.56
2	1.1	1.1	7.0	1.6	7.6	299	75	2.0	2.0	3.1	.78	.56
3	1.1	1.1	6.8	1.6	7.6	520	75	2.0	2.4	2.5	.79	.56
4	1.1	1.1	7.2	1.3	7.6	483	55	2.0	2.0	2.0	.79	.56
5	1.1	1.1	7.0	.29	8.6	286	26	2.0	2.0	2.0	.79	.59
6	1.1	1.1	6.8	.54	7.6	183	16	2.0	3.0	1.9	.73	.59
7	1.1	1.1	8.3	1.4	7.2	124	16	2.0	3.5	2.0	.76	.64
8	1.1	1.1	11	.54	5.4	117	8.9	2.0	3.5	2.4	.78	.64
9	1.1	1.1	11	.46	2.2	121	2.0	2.0	3.4	1.9	.78	.64
10	1.1	1.1	11	12	2.1	103	1.9	2.0	3.6	1.6	.78	.64
11	1.1	1.1	11	25	2.2	143	2.0	2.1	3.4	1.4	.88	.62
12	1.1	1.3	11	37	1.5	106	2.5	2.1	3.4	1.2	.89	.64
13	1.1	1.2	11	48	1.2	30	2.7	2.1	3.2	1.1	.73	.64
14	1.1	1.2	11	93	1.1	11	3.1	2.1	3.2	1.0	.69	.68
15	1.1	1.2	11	75	1.1	11	3.4	2.1	3.1	.99	.69	.69
16	1.1	3.1	11	48	.83	11	3.0	2.2	3.1	.87	.69	.89
17	1.1	1.7	11	68	.83	11	3.1	2.2	3.2	.75	.69	.66
18	1.1	1.6	10	115	.73	13	2.9	2.2	3.0	.72	.69	.68
19	1.1	1.8	10	108	1.2	15	2.8	2.2	2.8	.71	.88	.65
20	1.1	1.5	7.4	92	.59	16	2.8	2.1	2.6	.73	.69	.69
21	1.1	1.4	5.8	63	.50	15	2.7	2.0	2.7	.70	.69	.66
22	1.1	2.2	5.4	49	.99	15	2.5	2.1	2.8	.93	.64	.69
23	1.1	5.1	5.8	28	.54	15	2.2	2.0	2.8	.73	.64	.87
24	1.1	6.0	5.8	18	.50	14	2.5	1.9	3.3	.73	.64	.78
25	1.1	6.0	5.8	18	.50	14	2.5	1.9	3.5	.73	.64	.69
26	1.1	6.0	5.8	18	.83	16	2.5	2.0	3.6	.77	.64	.71
27	1.1	6.2	5.8	18	.50	20	2.7	2.0	3.5	.73	.64	.77
28	1.1	6.2	5.8	18	.54	26	2.2	2.0	3.4	.73	.62	.76
29	1.1	6.4	5.8	11	-----	28	2.2	2.0	3.5	1.7	.61	.78
30	1.1	6.4	5.8	7.4	-----	32	2.0	2.0	3.4	.78	.56	1.0
31	1.1	-----	5.8	7.4	-----	59	-----	2.0	-----	.78	.54	-----
TOTAL	34.1	79.2	252.4	987.83	79.48	2,862.5	406.1	63.4	90.9	41.68	22.14	20.53
MEAN	1.10	2.64	8.14	31.9	2.84	92.3	13.5	2.05	3.03	1.34	.71	.68
MAX	1.1	6.4	11	115	8.6	520	78	2.2	3.6	3.5	.89	1.0
MIN	1.1	1.1	5.8	.29	.50	5.5	1.9	1.9	2.0	.70	.54	.56
AC-FT	68	157	501	1,960	158	5,680	805	126	180	83	44	41

WTR YR 1974 TOTAL 4,940.26 MEAN 13.5 MAX 520 MIN .29 AC-FT 9,800

NOTE.--No gage-height record Oct. 1 to Nov. 8.

11145000 SALINAS RIVER ABOVE PILITAS CREEK, NEAR SANTA MARGARITA, CALIF.

LOCATION.--Lat 35°20'56", long 120°30'42", in SW¼NE¼ sec.6, T.30 S., R.14 E., San Luis Obispo County, on downstream side of right bank bridge pier, 200 ft (61 m) upstream from Pilitas Creek, 2 mi (3 km) downstream from Salinas Dam, and 6 mi (10 km) southeast of Santa Margarita.

DRAINAGE AREA.--114 mi² (295 km²).

PERIOD OF RECORD.--July 1942 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,148.66 ft (350.112 m) above mean sea level.

AVERAGE DISCHARGE.--32 years, 18.5 ft³/s (0.524 m³/s), 13,400 acre-ft/yr (16.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 535 ft³/s (15.2 m³/s) Mar. 4 (gage height, 2.56 ft or 0.780 m); minimum daily, 0.30 ft³/s (0.008 m³/s) Sept. 25.

Period of record: Maximum discharge, 16,600 ft³/s (470 m³/s) Jan. 25, 1969 (gage height, 14.90 ft or 4.542 m); no flow at times.

REMARKS.--Records fair. Flow regulated by Santa Margarita Lake 2 mi (3 km) upstream beginning in 1941 and water diverted to Camp San Luis Obispo and city of San Luis Obispo (see sta 11144500). Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1715: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.71	.82	7.6	5.5	7.3	14	93	1.8	1.9	4.3	.60	.43
2	.71	1.0	7.1	1.5	7.9	287	90	1.8	2.0	4.0	.60	.43
3	.71	1.0	7.0	1.2	7.3	475	88	1.8	2.2	3.5	.60	.43
4	.71	1.0	7.3	5.5	7.3	445	68	1.8	1.8	2.8	.60	.45
5	.90	1.0	6.6	1.8	7.3	288	33	1.8	2.3	2.6	.60	.46
6	1.1	1.0	6.7	10	7.9	196	17	1.8	3.5	2.5	.56	.47
7	.82	1.0	9.2	38	7.9	145	17	1.8	4.5	2.7	.58	.49
8	.82	1.0	12	9.2	7.3	132	3.0	1.8	4.4	3.0	.59	.49
9	.71	1.0	12	3.2	2.6	136	1.8	1.8	4.4	1.7	.60	.49
10	.71	1.0	12	13	2.0	118	1.8	1.9	4.5	1.3	.60	.48
11	.82	1.2	12	30	2.0	152	2.1	1.9	4.3	1.2	.63	.48
12	.71	1.2	12	50	2.0	123	2.3	1.9	4.3	1.0	.68	.49
13	.82	1.2	12	64	1.6	43	2.6	1.9	4.1	.86	.55	.51
14	.82	1.2	12	108	1.2	14	2.9	1.9	4.1	.79	.46	.53
15	.82	3.1	12	90	1.1	13	3.0	1.9	3.9	.75	.45	.58
16	.82	2.3	12	59	1.1	13	2.8	1.9	3.9	.68	.45	.68
17	.82	1.7	12	80	.82	14	2.7	1.9	4.1	.60	.45	.39
18	.82	1.7	12	132	.71	15	2.6	1.8	3.9	.56	.46	.36
19	.82	1.8	12	122	.71	19	2.5	1.8	3.6	.54	.67	.34
20	.82	1.5	9.2	104	.82	20	2.4	1.8	3.3	.54	.57	.36
21	.82	2.0	7.3	74	.71	20	2.3	1.8	3.5	.53	.53	.35
22	1.2	4.0	6.7	58	.62	19	2.1	1.8	3.5	.61	.51	.36
23	1.1	5.3	6.7	32	.62	19	2.1	1.8	3.6	.54	.49	.45
24	.82	6.0	6.1	19	.71	18	2.3	1.7	4.1	.48	.49	.38
25	.82	6.0	6.7	19	.71	18	2.3	1.7	4.4	.48	.49	.30
26	.82	6.1	6.7	19	.90	20	2.4	1.8	4.6	.51	.49	.32
27	.82	6.3	6.7	19	2.6	25	2.4	1.8	4.4	.49	.49	.33
28	.82	6.4	6.1	19	4.0	32	2.0	1.8	4.3	.48	.49	.33
29	.90	6.4	6.1	13	-----	35	1.9	1.8	4.4	1.3	.46	.34
30	.71	6.9	6.1	7.3	-----	40	1.8	1.8	4.3	.60	.44	.39
31	.82	-----	6.7	7.3	-----	66	-----	1.8	-----	.60	.41	-----
TOTAL	25.64	82.12	276.6	1,214.5	87.73	2,974	460.1	56.4	112.1	42.54	16.59	12.89
MEAN	.83	2.74	8.92	39.2	3.13	95.9	15.3	1.82	3.74	1.37	.54	.43
MAX	1.2	6.9	12	132	7.9	475	93	1.9	4.6	4.3	.68	.68
MIN	.71	.82	6.1	1.2	.62	13	1.8	1.7	1.8	.48	.41	.30
AC-FT	51	163	549	2,410	174	5,900	913	112	222	84	33	26

CAL YR 1973 TOTAL 13,345.42 MEAN 36.6 MAX 1,070 MIN .10 AC-FT 26,470
 WTR YR 1974 TOTAL 5,361.21 MEAN 14.7 MAX 475 MIN .30 AC-FT 10,630

NOTE.--No gage-height record Nov. 2 to Dec. 5.

SALINAS RIVER BASIN

11147000 JACK CREEK NEAR TEMPLETON, CALIF.

LOCATION.--Lat 35°34'00", long 120°48'10", in Paso de Robles Grant, San Luis Obispo County, on left bank 1.4 mi (2.3 km) upstream from mouth, 1.8 mi (2.9 km) northwest of Oakdale School, and 5.6 mi (9.0 km) west of Templeton.

DRAINAGE AREA.--25.3 mi² (65.5 km²).

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 980 ft (299 m), from topographic map.

AVERAGE DISCHARGE.--25 years, 14.7 ft³/s (0.416 m³/s), 10,650 acre-ft/yr (13.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,700 ft³/s (48.1 m³/s) Mar. 1 (gage height, 6.75 ft or 2.057 m); no flow many days.

Period of record: Maximum discharge, 8,160 ft³/s (231 m³/s) Feb. 24, 1969 (gage height, 11.28 ft or 3.438 m), from rating curve extended above 1,200 ft³/s (34.0 m³/s) on basis of slope-area measurements at gage heights 6.50 ft (1.981 m) and 9.56 ft (2.914 m); no flow for several months in each year.

REMARKS.--Records good. No regulation; small diversions above station for irrigation.

REVISIONS (WATER YEARS).--WSP 1395: 1950(M), 1952, 1953(M).

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	257	12	12	317	116	7.2	2.0	.79	.14	.04	
2	0	31	9.1	11	412	168	7.2	2.0	.87	.13	.03	
3	0	15	8.3	10	155	81	6.9	2.0	.87	.12	.02	
4	0	10	258	10	80	57	6.5	1.8	.74	.12	.02	
5	0	7.6	144	9.6	54	45	6.5	1.7	.69	.12	.02	
6	0	5.6	470	8.7	42	37	6.2	1.5	.64	.11	.01	
7	0	4.7	850	8.3	107	32	5.9	1.3	.69	.10	0	
8	0	3.7	245	8.3	150	28	5.6	1.3	.74	.09	0	
9	0	3.4	101	7.9	71	27	5.6	1.3	.74	.12	0	
10	0	2.9	62	7.6	53	23	5.3	1.1	.79	.14	0	
11	0	2.6	45	7.2	42	21	5.3	1.3	.74	.14	0	
12	0	2.4	46	7.2	36	20	5.0	1.4	.55	.14	0	
13	0	2.6	39	7.6	31	18	4.3	1.5	.51	.14	0	
14	0	4.0	32	6.9	27	16	4.3	1.3	.48	.13	0	
15	0	2.9	28	6.9	24	15	4.3	1.3	.45	.12	0	
16	0	2.6	32	6.5	21	14	4.0	.87	.42	.12	0	
17	24	2.4	140	6.5	20	14	3.7	1.1	.39	.10	0	
18	24	2.2	71	6.2	18	13	3.7	1.3	.37	.08	0	
19	5.0	2.2	53	6.5	17	12	4.0	1.3	.34	.07	0	
20	2.6	2.0	42	6.2	16	12	4.0	1.1	.32	.06	0	
21	2.0	14	35	5.9	15	11	3.7	.98	.29	.06	0	
22	7.6	45	29	5.6	14	10	3.4	.87	.25	.05	0	
23	19	16	25	5.6	14	10	3.1	.87	.24	.05	0	
24	8.3	10	23	5.3	13	12	2.9	.79	.22	.04	0	
25	5.6	7.9	20	5.3	13	11	2.6	.87	.22	.04	0	
26	4.0	6.9	18	5.3	14	9.6	2.4	.79	.20	.05	0	
27	3.1	19	17	5.0	23	8.7	2.2	.74	.20	.05	0	
28	2.6	17	15	5.0	238	8.3	2.4	.74	.19	.04	0	
29	2.6	11	14	-----	83	7.9	2.4	.69	.16	.04	0	
30	2.4	9.1	14	-----	161	7.6	2.2	.74	.15	.04	0	
31	-----	7.9	13	-----	84	-----	2.4	-----	.17	.04	-----	
TOTAL	0	112.8	530.6	2,910.4	204.1	2,365	865.1	135.2	36.55	14.42	2.79	.14
MEAN	0	3.76	17.1	93.9	7.29	76.3	28.8	4.36	1.22	.47	.090	.005
MAX	0	24	257	850	12	412	168	7.2	2.0	.87	.14	.04
MIN	0	0	2.0	8.3	5.0	13	7.6	2.2	.69	.15	.04	0
AC-FT	0	224	1,050	5,770	405	4,690	1,720	268	72	29	5.5	.3

CAL YR 1973 TOTAL 11,101.33 MEAN 30.4 MAX 1,170 MIN 0 AC-FT 22,020
WTR YR 1974 TOTAL 7,177.10 MEAN 19.7 MAX 850 MIN 0 AC-FT 14,240

PEAK DISCHARGE (BASE, 600 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-1	0315	5.58	914	3-1	2245	6.75	1,700
1-7	0515	6.12	1,220	3-28	0730	5.06	645

11147070 SANTA RITA CREEK NEAR TEMPLETON, CALIF.

LOCATION.--Lat 35°31'26", long 120°45'54", in Asuncion Grant, San Luis Obispo County, on left bank 1.6 mi (2.6 km) upstream from mouth, and 4 mi (6 km) west of Templeton.

DRAINAGE AREA.--18.2 mi² (47.1 km²).

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder and rain gage. Altitude of gage is 860 ft (262 m), from topographic map. Auxiliary rain gage 5.3 mi (8.5 km) west of gage. Altitude of gage is 1,270 ft (387 m), from topographic map.

AVERAGE DISCHARGE.--13 years, 15.3 ft³/s (0.433 m³/s), 11,080 acre-ft/yr (13.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,960 ft³/s (55.5 m³/s) Mar. 1 (gage height, 7.98 ft or 2.432 m), from rating curve extended above 720 ft³/s (20.4 m³/s) as explained below; no flow for several months.
Period of record: Maximum discharge, 6,060 ft³/s (172 m³/s) Jan. 19, 1969 (gage height, 11.12 ft or 3.389 m in gage well, 11.75 ft or 3.581 m, from floodmarks), from rating curve extended above 1,300 ft³/s (36.8 m³/s) on basis of slope-area measurement of maximum flow; no flow for several months in each year.

REMARKS.--Records good. Some regulation and pumping above station.

REVISIONS (WATER YEARS).--WRD Calif. 1969: 1967(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	102	33	12	370	242	7.0	1.9	.24		
2		0	18	17	11	417	292	6.8	2.1	.38		
3		0	6.5	15	9.6	170	120	6.6	2.1	.38		
4		0	3.5	325	9.1	96	79	6.4	2.1	.38		
5		0	2.7	177	8.6	65	58	6.2	1.7	.31		
6		0	2.1	337	8.2	48	46	6.0	1.7	.24		
7		0	1.7	855	7.3	117	38	5.7	1.3	.19		
8		0	1.3	267	7.3	154	33	5.7	1.3	.19		
9		0	1.0	122	7.7	79	31	5.7	1.5	.19		
10		0	.89	70	7.3	59	27	5.4	1.5	.19		
11		0	.89	51	6.9	47	26	5.4	1.3	.14		
12		0	.77	59	6.9	40	15	4.7	1.5	.09		
13		0	1.3	51	7.7	33	13	4.7	1.5	.06		
14		0	2.1	39	6.1	28	11	4.4	1.5	.06		
15		0	1.3	32	5.4	26	11	4.4	1.3	.04		
16		0	.89	40	5.0	23	10	4.1	1.2	.04		
17	33	.77	179	4.7	20	12	12	4.1	1.2	.02		
18	29	.77	94	4.4	19	12	12	4.1	1.2	.01		
19	13	.66	69	5.7	17	11	11	3.8	1.0	.01		
20	9.1	.66	56	4.7	15	11	11	3.5	.89	0		
21	1.5	29	44	3.8	14	10	10	3.5	.66	0		
22	5.4	57	35	3.5	13	9.8	9.8	3.2	.56	0		
23	9.6	19	31	3.2	12	9.4	9.4	3.0	.46	0		
24	2.5	12	26	3.0	11	10	10	2.7	.46	0		
25	1.5	8.2	22	2.7	12	11	11	2.5	.31	0		
26	1.2	6.5	20	2.7	14	9.9	9.9	2.3	.31	0		
27	.77	55	17	2.5	32	8.7	8.7	2.3	.24	0		
28	.66	42	16	2.5	343	8.0	8.0	2.5	.24	0		
29	.66	25	15	-----	111	7.7	7.7	2.3	.19	0		
30	.77	18	14	-----	229	7.4	7.4	2.3	.14	0		
31	-----	14	13	-----	122	-----	-----	2.3	-----	0	-----	-----
TOTAL	0	109.66	435.70	3,141	169.5	2,756	1,189.9	133.6	33.36	3.16	0	0
MEAN	0	3.62	14.1	101	6.05	88.9	39.7	4.31	1.11	.10	0	0
MAX	0	33	102	855	12	417	292	7.0	2.1	.38	0	0
MIN	0	0	.66	13	2.5	11	7.4	2.3	.14	0	0	0
AC-FT	0	216	864	6,230	336	5,470	2,360	265	66	6.3	0	0
(a)	1.70	7.26	3.73	9.70	.20	10.00	1.87	0	0	0	0	0
(b)	3.20	6.56	7.19	11.83	.78	13.50	3.03	.01	0	.03	0	0

CAL YR 1973 TOTAL 10,432.42 MEAN 28.5 MAX 1,300 MIN 0 AC-FT 20,690
WTR YR 1974 TOTAL 7,970.88 MEAN 1.8 MAX 855 MIN 0 AC-FT 15,810

DATE	TIME	G.H.	PEAK DISCHARGE (BASE, 600 FT ³ /S)	DATE	TIME	G.H.	DISCHARGE	a Precipitation, in inches.
1-4	0300	6.43	818	3-28	0545	6.88	1,090	b Precipitation, in inches, at auxiliary gage.
1-7	0545	7.14	1,270	4-1	2330	6.59	968	
3-1	2200	7.98	1,960					

SALINAS RIVER BASIN

11147500 SALINAS RIVER AT PASO ROBLES, CALIF.

LOCATION.--Lat 35°37'43", long 120°41'00", in Paso de Robles Grant, San Luis Obispo County, on left bank at upstream side of 13th Street Bridge in Paso Robles, 3.5 mi (5.6 km) upstream from Huerhuero Creek.

DRAINAGE AREA.--390 mi² (1,010 km²).

PERIOD OF RECORD.--October 1939 to September 1965, October 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 670.61 ft (240.402 m) above mean sea level. Prior to June 14, 1951, nonrecording gage, and June 14, 1951, to Sept. 30, 1965, water-stage recorder at same site and datum.

AVERAGE DISCHARGE.--31 years, 87.9 ft³/s (2.489 m³/s), 63,680 acre-ft/yr (78.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 8,000 ft³/s (227 m³/s) Jan. 7 (gage height, 12.15 ft or 3.703 m); no flow for long periods.

Period of record: Maximum discharge, 14,600 ft³/s (413 m³/s) Jan. 18, 1973 (gage height, 14.61 ft or 4.453 m), from rating curve extended above 6,200 ft³/s (176 m³/s); maximum gage height, 17.24 ft (5.255 m), Apr. 3, 1958; no flow for long periods in each year.

Flood of Jan. 25, 1969, reached a stage of 23.8 ft (7.25 m), from floodmarks (discharge, 28,000 ft³/s or 793 m³/s).

REMARKS.--Records fair. Flow regulated by Santa Margarita Lake 32 mi (51 km) upstream beginning in 1941 (see sta 11144500). Small diversions above station. Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 981: 1942.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			34	67	99	153	482	53				
2			21	67	93	2,790	1,610	49				
3			.16	65	93	1,860	710	45				
4			0	834	83	1,360	498	49				
5			0	1,070	78	992	401	51				
6			0	1,140	53	648	312	47				
7			0	5,540	68	530	251	43				
8			0	2,460	75	1,650	224	40				
9			0	854	70	864	193	35				
10			0	506	70	747	170	30				
11			0	374	65	525	166	29				
12			0	408	65	482	153	28				
13			0	422	67	330	136	28				
14			0	342	67	294	124	24				
15			0	342	67	257	113	22				
16			0	318	65	229	113	21				
17			0	683	70	193	113	18				
18			0	648	75	179	102	19				
19			0	530	75	179	99	20				
20			0	459	99	161	93	19				
21			0	387	99	141	86	19				
22			39	300	96	141	78	17				
23			75	269	80	132	75	15				
24			57	240	72	128	106	12				
25			49	193	78	141	86	9.4				
26			41	161	75	149	78	4.4				
27			47	157	72	170	72	1.6				
28			113	153	83	787	70	.06				
29			86	136	-----	547	67	0				
30			70	117	-----	701	60	0				
31		-----	57	102	-----	598	-----	0	-----			-----
TOTAL	0	0	689.16	19,344	2,152	18,058	6,841	748.46	0	0	0	0
MEAN	0	0	22.2	624	76.9	583	228	24.1	0	0	0	0
MAX	0	0	113	5,540	99	2,790	1,610	53	0	0	0	0
MIN	0	0	0	65	53	128	60	0	0	0	0	0
AC-FT	0	0	1,370	38,370	4,270	35,820	13,570	1,480	0	0	0	0

CAL YR 1973 TOTAL 73,570.49 MEAN 202 MAX 5,390 MIN 0 AC-FT 145,900
WTR YR 1974 TOTAL 47,832.62 MEAN 131 MAX 5,540 MIN 0 AC-FT 94,880

PEAK DISCHARGE (BASE, 1,100 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
1-7	1000	12.15	8,000	3-28	1445	8.68	1,890
3-2	0400	10.16	4,080	3-30	1515	8.21	1,220
3-8	0400	8.98	2,320	4-2	0600	9.05	2,420

11148500 ESTRELLA RIVER NEAR ESTRELLA, CALIF.

LOCATION.--Lat 35°43'02", long 120°38'21", in NW¼NW¼ sec.36, T.25 S., R.12 E., San Luis Obispo County, on right bank 0.2 mi (0.3 km) downstream from mouth of Ranchito Canyon, and 1.9 mi (3.1 km) northwest of Estrella.

DRAINAGE AREA.--922 mi² (2,388 km²), not including Carrizo Plains.

PERIOD OF RECORD.--October 1954 to current year. Prior to October 1960, published as Estrella Creek near Estrella.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 671.59 ft (204.701 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--20 years, 25.4 ft³/s (0.719 m³/s), 18,400 acre-ft/yr (22.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 820 ft³/s (23.2 m³/s) Jan. 8 (gage height, 3.13 ft or 0.954 m); no flow for several months.
Period of record: Maximum discharge, 32,500 ft³/s (920 m³/s) Feb. 24, 1969 (gage height, 10.4 ft or 3.17 m, from floodmarks), by slope-area measurement of maximum flow; maximum gage height, 10.9 ft (3.322 m), Jan. 25, 1969, from floodmarks; no flow for several months in each year.

REMARKS.--Records poor. No regulation; pumpage from wells along river for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	1.5	4.3	2.2	15	.13				
2			0	1.2	4.2	5.0	30	0				
3			0	1.9	4.0	100	9.0	0				
4			0	12	3.8	50	5.9	0				
5			0	15	3.6	20	5.0	0				
6			0	22	3.5	10	3.6	0				
7			0	130	3.4	20	3.1	0				
8			0	564	3.2	80	2.6	0				
9			0	124	3.1	30	2.9	0				
10			0	54	3.0	15	2.6	0				
11			0	21	2.8	10	2.6	0				
12			0	28	2.7	7.3	2.6	0				
13			0	22	2.7	5.8	2.6	0				
14			0	14	2.6	5.2	2.0	0				
15			0	9.0	2.6	4.4	1.5	0				
16			0	7.0	2.6	4.2	1.4	0				
17			0	10	2.5	4.3	1.0	0				
18			0	40	2.5	4.1	.67	0				
19			0	34	2.4	4.2	1.6	0				
20			0	20	2.4	3.9	1.0	0				
21			0	15	2.4	3.9	.60	0				
22			0	10	2.3	4.2	.44	0				
23			0	8.0	2.3	3.5	.63	0				
24			0	7.0	2.3	3.4	2.5	0				
25			0	6.5	2.3	4.0	3.9	0				
26			0	6.0	2.2	4.8	3.0	0				
27			0	5.5	2.2	4.4	2.2	0				
28			0	5.2	2.2	80	1.5	0				
29			0	5.0	-----	20	.86	0				
30			0	4.8	-----	30	.47	0				
31		-----	.40	4.5	-----	15	-----	0	-----			-----
TOTAL	0	0	.40	1,208.1	80.1	558.8	112.77	.13	0	0	0	0
MFAN	0	0	.013	39.0	2.86	18.0	3.76	.004	0	0	0	0
MAX	0	0	.40	564	4.3	100	30	.13	0	0	0	0
MIN	0	0	0	1.2	2.2	2.2	.44	0	0	0	0	0
AC-FT	0	0	.8	2,400	159	1,110	224	.3	0	0	0	0

CAL YR 1973 TOTAL 18,718.71 MEAN 51.3 MAX 4,040 MIN 0 AC-FT 37,130
WTR YR 1974 TOTAL 1,960.30 MEAN 5.37 MAX 564 MIN 0 AC-FT 3,890

PEAK DISCHARGE (BASE, 200 FT³/S).--Jan. 8 (1100) 820 ft³/s (3.13 ft); Mar. 28 (time unknown) 311 ft³/s (2.50 ft).

NOTE.--No gage-height record Jan. 15 to Mar. 11.

SALINAS RIVER BASIN

11148900 NACIMIENTO RIVER BELOW SAPAQUE CREEK, NEAR BRYSON, CALIF.

LOCATION.--Lat 35°47'19", long 121°05'34", in SW¼NE¼ sec.3, T.25 S., R.8 E., San Luis Obispo County, on left bank just downstream from Sapaque Creek, 1.4 mi (2.3 km) south of Bryson.

DRAINAGE AREA.--156 mi² (404 km²).

PERIOD OF RECORD.--October 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 800 ft (244 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 17,200 ft³/s (487 m³/s) Mar. 1 (gage height, 20.58 ft or 6.273 m), from rating curve extended as explained below; no flow many days.

Period of record: Maximum discharge, 25,200 ft³/s (714 m³/s) Jan. 16, 1973 (gage height, 23.00 ft or 7.010 m), from rating curve extended above 2,500 ft³/s (70.8 m³/s) on basis of slope-area measurement at gage height 16.84 ft (5.133 m); no flow for several months in each year.

REMARKS.--Records good. No storage or diversion above station. Records of water temperatures and sediment discharge for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	3,510	181	122	8,920	1,110	93	30	8.6	1.3	.10
2		0	481	146	114	7,240	2,670	88	30	8.6	1.0	.05
3		.46	252	238	107	2,770	1,100	86	30	9.1	.90	.01
4		1.5	169	2,270	101	1,280	795	85	28	9.1	.79	0
5		1.7	130	763	96	816	657	83	26	8.2	.79	0
6		1.8	103	3,080	91	638	556	80	24	7.8	.69	0
7		2.2	86	8,840	85	959	481	77	23	7.1	.60	0
8		2.6	74	3,460	81	1,170	426	70	22	7.1	.52	0
9		2.8	67	1,320	78	712	404	67	20	7.1	.52	0
10		3.5	59	801	77	578	358	64	20	8.2	.52	0
11		3.7	55	578	74	501	318	61	19	9.5	.52	0
12		57	54	638	72	457	287	59	18	9.1	.52	0
13		42	55	601	77	400	264	55	17	8.2	.69	0
14		30	80	489	70	362	241	54	17	7.1	.69	0
15		20	61	408	67	328	221	52	16	6.4	.69	0
16		25	55	408	65	296	205	50	16	5.5	.60	0
17		816	50	1,130	63	272	189	49	16	5.1	.60	0
18		677	48	779	60	255	176	49	18	4.8	.60	0
19		175	44	592	61	235	167	49	21	4.3	.52	0
20		94	42	489	65	218	158	48	21	4.0	.45	0
21		72	179	397	59	202	149	46	18	3.5	.45	0
22		101	592	325	56	192	140	45	16	3.2	.38	0
23		149	261	281	54	179	138	43	15	3.0	.38	0
24		93	181	247	52	172	153	41	14	2.6	.32	0
25		72	140	221	51	167	132	40	12	2.2	.26	0
26		60	120	197	49	186	120	37	12	1.8	.21	0
27		50	281	174	49	592	114	35	11	1.7	.21	0
28		42	408	160	49	2,180	108	33	11	1.5	.17	0
29		38	258	149	-----	1,070	103	33	10	1.5	.17	0
30		48	194	138	-----	1,700	96	33	9.5	1.4	.13	0
31		-----	158	130	-----	1,040	-----	31	-----	1.4	.13	-----
TOTAL	0	2,681.26	8,247	29,630	2,045	36,087	12,036	1,736	560.5	168.7	16.32	.16
MEAN	0	89.4	266	956	73.0	1,164	401	56.0	18.7	5.44	.53	.005
MAX	0	816	3,510	8,840	122	8,920	2,670	93	30	9.5	1.3	.10
MIN	0	0	42	130	49	167	96	31	9.5	1.4	.13	0
AC-FT	0	5,320	16,360	58,770	4,060	71,580	23,870	3,440	1,110	335	.32	.3
CAL YR 1973	TOTAL	126,823.64	MEAN	347	MAX	10,000	MIN	0	AC-FT	251,600		
WTR YR 1974	TOTAL	93,207.94	MEAN	255	MAX	8,920	MIN	0	AC-FT	184,900		

PEAK DISCHARGE (BASE, 4,000 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-1	0330	17.31	9,000	3-1	2315	20.58	17,200
1-4	0200	16.06	6,620	4-2	0200	14.92	4,790
1-7	1230	18.84	12,500				

RESERVOIRS IN SALINAS RIVER BASIN, CALIF.

11149300 NACIMIENTO RESERVOIR.--Lat 35°45'29", long 120°53'01", in NW¼ sec.15, T.25 S., R.10 E., San Luis Obispo County, at right end of dam on Nacimiento River, 8.6 mi (13.8 km) southwest of Bradley, and 12.3 mi (19.8 km) upstream from mouth. Drainage area, 319 mi² (826 km²). Period of record, February 1957 to current year. Monthend contents prior to October 1970, published in WRD Calif. 1970. Nonrecording gage read once daily. Datum of gage is at mean sea level (levels by Monterey County Flood Control and Water Conservation District). Extremes for current year: Maximum contents observed, 336,200 acre-ft (415 hm³) May 13, 14 (elevation, 797.30 ft or 243.017 m); minimum observed, 196,700 acre-ft (243 hm³) Nov. 14-16 (elevation, 766.10 ft or 233.507 m). Extremes for period of record: Maximum contents observed, 374,500 acre-ft (462 hm³) Apr. 7, 1958 (elevation, 804.7 ft or 245.27 m); minimum observed since appreciable storage was attained, 10,910 acre-ft (13.5 hm³) Oct. 11, 1960 (elevation, 670.8 ft or 204.46 m).

Reservoir is formed by earthfill dam completed in 1957. Total capacity, 350,000 acre-ft (432 hm³); usable capacity, 340,000 acre-ft (419 hm³) between elevations 670.0 ft (204.22 m), outlet and 800.0 ft (243.84 m), crest of spillway. Dead storage, 10,000 acre-ft (12.3 hm³). Figures given herein represent total contents. Reservoir is used for flood control and water released down Nacimiento River for irrigation. Record of contents furnished by Monterey County Flood Control and Water Conservation District.

11150100 SAN ANTONIO RESERVOIR.--Lat 35°47'55", long 120°53'02", in SW¼ sec.34, T.24 S., R.10 E., Monterey County, at dam on San Antonio River, 0.7 mi (1.1 km) upstream from Sulphur Canyon, and 6.4 mi (10.3 km) southwest of Bradley. Drainage area, 330 mi² (855 km²). Period of record, December 1965 to current year. Monthend contents prior to October 1970, published in WRD Calif. 1970. Water-stage recorder. Datum of gage is at mean sea level (levels by Monterey County Flood Control and Water Conservation District). Extremes for current year: Maximum contents, 274,800 acre-ft (339 hm³) May 10-20 (elevation, 766.15 ft or 233.523 m); minimum, 196,500 acre-ft (242 hm³) Nov. 5-17 (elevation, 748.20 ft or 228.051 m). Extremes for period of record: Maximum contents, 348,900 acre-ft (430 hm³) May 27, 1969 (elevation, 779.8 ft or 237.68 m); minimum since appreciable storage was attained, 93,820 acre-ft (116 hm³) Nov. 5-13, 1972 (elevation, 714.1 ft or 217.66 m).

Reservoir is formed by earthfill dam completed in 1965. Total capacity, 350,000 acre-ft (432 hm³); usable capacity, 330,000 acre-ft (407 hm³) between elevations 662.0 ft (201.78 m), minimum pool and 780.0 ft (237.74 m), crest of spillway. Dead storage, 20,000 acre-ft (24.7 hm³). Records given herein represent total contents. Reservoir is used for flood control and water released down San Antonio River for irrigation. Record of contents furnished by Monterey County Flood Control and Water Conservation District.

MONTHEND CONTENTS, IN ACRE-FEET, AT 2400, OCTOBER 1973 TO SEPTEMBER 1974

Date	Nacimiento Reservoir	San Antonio Reservoir
Sept. 30, 1973.	218,000	197,800
Oct. 31.....	200,200	196,900
Nov. 30.....	201,100	197,300
Dec. 31.....	208,200	201,200
Jan. 31, 1974..	205,600	228,200
Feb. 28.....	210,600	230,100
Mar. 31.....	304,500	260,700
Apr. 30.....	334,600	273,800
May 31.....	331,700	274,500
June 30.....	315,600	272,500
July 31.....	289,700	269,500
Aug. 31.....	258,100	265,800
Sept. 30.....	229,800	262,700

SALINAS RIVER BASIN

11149400 NACIMIENTO RIVER BELOW NACIMIENTO DAM, NEAR BRADLEY, CALIF.

LOCATION.--Lat 35°45'41", long 120°51'16", in NE¼NE¼ sec.14, T.25 S., R.10 E., San Luis Obispo County, Camp Roberts Military Reservation, on left bank 2.2 mi (3.5 km) downstream from Nacimiento Dam, and 7.6 mi (12.2 km) southwest of Bradley.

DRAINAGE AREA.--322 mi² (834 km²).

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 597 ft (182 m) above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE (unadjusted).--17 years, 273 ft³/s (7.731 m³/s), 197,800 acre-ft/yr (244 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,960 ft³/s (112 m³/s) Jan. 8 (gage height, 9.39 ft or 2.862 m); minimum daily, 3.1 ft³/s (0.088 m³/s) Nov. 19.
Period of record: Maximum discharge, 7,340 ft³/s (208 m³/s) Feb. 25, 1969 (gage height, 10.92 ft or 3.328 m); no flow for many days in each year except 1964, 1966-74.

REMARKS.--Records good. Flow regulated by Nacimiento Dam 2.2 mi (3.5 km) upstream (see sta 11149300). No diversion above station.

REVISIONS (WATER YEARS).--WRD Calif. 1970: 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	373	153	16	19	16	17	6.8	7.5	326	304	484	503
2	369	153	13	423	16	20	6.9	5.8	326	304	484	498
3	369	153	14	763	16	21	6.3	5.2	326	304	484	498
4	369	150	15	1,880	16	19	5.8	4.7	326	304	484	498
5	369	150	15	2,970	16	19	6.3	4.2	326	304	484	498
6	369	150	15	3,040	16	19	5.8	4.7	326	304	484	498
7	369	150	479	65	16	20	4.7	4.2	290	304	484	498
8	369	150	895	2,440	17	19	5.2	3.7	263	304	484	493
9	369	150	878	3,830	17	19	5.2	3.7	263	304	484	498
10	369	150	866	3,710	17	17	5.2	3.7	263	435	484	498
11	369	150	856	3,370	17	15	5.2	3.7	260	435	484	493
12	369	153	839	3,340	17	16	5.8	3.3	260	435	484	493
13	369	150	806	3,210	17	16	6.3	3.7	260	435	484	493
14	369	76	811	3,080	17	16	5.2	4.8	260	431	484	489
15	369	4.6	795	2,930	16	15	4.7	155	260	431	484	489
16	369	3.4	785	2,760	16	15	5.8	155	263	431	484	484
17	369	3.4	329	2,660	17	15	6.3	155	263	431	484	484
18	340	3.7	18	2,590	17	15	5.8	158	260	427	484	480
19	230	3.1	16	2,450	17	16	5.8	158	260	431	484	480
20	230	283	16	2,300	16	15	5.8	155	260	427	484	480
21	230	712	17	2,140	16	13	5.8	158	260	427	484	480
22	230	710	16	1,970	16	6.9	5.8	155	260	427	503	490
23	230	287	16	1,080	16	6.9	6.3	155	260	427	484	480
24	230	8.8	17	21	15	6.3	6.3	155	260	427	503	480
25	230	7.9	17	17	15	6.3	6.3	155	260	427	484	475
26	230	4.4	17	16	16	6.3	6.3	155	260	448	503	475
27	230	12	18	16	15	6.3	6.3	155	283	484	484	471
28	230	12	18	16	17	7.5	6.3	161	304	489	484	471
29	230	12	18	16	-----	6.9	7.5	212	304	484	484	475
30	230	13	19	16	-----	7.5	7.5	326	304	484	484	475
31	230	-----	19	16	-----	6.9	-----	326	-----	484	484	-----
TOTAL	4,607	4,123.3	6,664	53,154	456	424.8	181.3	3,155.1	8,396	12,574	15,244	14,607
MEAN	310	137	280	1,715	16.3	13.7	6.04	102	280	466	484	487
MAX	373	712	895	3,830	17	21	8.8	326	326	489	503	503
MIN	230	3.1	13	16	15	6.3	4.7	3.3	260	374	484	471
AC-FT	19,060	8,160	17,190	105,400	904	843	360	6,260	16,650	24,440	30,320	28,970
CAL YR 1973	TOTAL	48,773.3	MEAN	271	MAX	4,670	MIN	3.1	AC-FT	195,900		
WTR YR 1974	TOTAL	130,634.5	MEAN	358	MAX	3,830	MIN	3.1	AC-FT	254,100		

11149900 SAN ANTONIO RIVER NEAR LOCKWOOD, CALIF.

LOCATION.--Lat 35°53'48", long 121°05'14", in Los Ojitos Grant, Monterey County, on downstream side of highway bridge, 0.4 mi (0.6 km) upstream from Tule Canyon, and 3.3 mi (5.3 km) south of Lockwood.

DRAINAGE AREA.--223 mi² (578 km²).

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 800.00 ft (243.840 m) above mean sea level.

AVERAGE DISCHARGE.--9 years, 103 ft³/s (2.917 m³/s), 74,620 acre-ft/yr (92.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 5,740 ft³/s (163 m³/s) Mar. 1 (gage height, 4.40 ft or 1.341 m); no flow for several months.

Period of record: Maximum discharge, 14,000 ft³/s (396 m³/s) Jan. 26, 1969 (gage height, 8.25 ft or 2.515 m); maximum gage height, 9.2 ft (2.80 m), from floodmarks, Dec. 6, 1966; no flow for several months in each year.

REMARKS.--Records fair. No regulation; some pumping above station. Records of water temperatures and sediment discharge for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	572	56	130	2,290	640	90	39	14		
2		0	307	59	120	2,880	1,000	87	39	11		
3		0	158	64	115	2,090	747	90	35	11		
4		0	114	203	105	1,330	640	84	37	10		
5		0	94	167	100	1,100	548	90	35	10		
6		0	74	311	96	966	482	94	30	8.0		
7		0	62	1,710	90	882	430	87	28	8.0		
8		0	51	1,050	88	992	386	84	27	8.0		
9		0	46	620	79	742	356	77	27	8.0		
10		0	41	450	75	634	319	77	27	9.0		
11		0	39	600	73	518	287	80	28	11		
12		0	36	670	79	438	268	71	27	11		
13		0	37	620	69	375	238	71	23	9.0		
14		0	39	520	73	352	206	71	25	8.0		
15		0	36	440	67	310	200	68	25	6.2		
16		0	34	470	61	280	196	62	25	6.2		
17		0	34	1,180	61	240	181	59	25	5.3		
18		285	32	860	63	200	163	65	27	3.9		
19		41	30	650	69	191	154	68	30	3.2		
20		49	28	540	63	175	135	62	32	2.6		
21		35	35	420	62	161	122	62	30	1.6		
22		34	129	350	64	151	106	59	27	1.1		
23		32	113	300	50	144	110	56	27	.61		
24		30	76	265	49	137	126	51	23	.20		
25		27	52	235	52	132	131	51	23	.02		
26		27	44	210	51	129	114	46	20	0		
27		25	43	185	50	168	114	46	20	0		
28		24	69	170	55	658	106	46	18	0		
29		25	70	155	-----	736	102	44	17	0		
30		27	56	145	-----	916	90	44	15	0		
31		-----	56	137	-----	825	-----	41	-----	0		-----
TOTAL	0	713	2,607	13,812	2,109	21,142	8,697	2,083	811	166,93	0	0
MEAN	0	23.8	84.1	446	75.3	682	290	67.2	27.0	5.38	0	0
MAX	0	285	572	1,710	130	2,880	1,000	94	39	14	0	0
MIN	0	0	28	56	44	129	90	41	15	0	0	0
AC-FT	0	1,410	5,170	27,400	4,180	41,940	17,250	4,130	1,610	331	0	0
CAL YR 1973	TOTAL	59,503.63	MEAN	160	MAX	2,600	MIN	0	AC-FT	116,000		
WTR YR 1974	TOTAL	52,140.93	MEAN	143	MAX	2,880	MIN	0	AC-FT	103,400		

PEAK DISCHARGE (BASE, 350 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-18	0300	1.23	511	3-1	1400	4.40	5,740
12-1	1145	2.05	1,490	3-8	0215	1.95	1,340
1-7	2345	2.72	2,540	3-28	1445	1.99	1,400
1-12	1345	1.75	1,070	3-30	1300	2.20	1,710
1-17	1645	1.77	1,100	4-2	0515	2.08	1,530

SALINAS RIVER BASIN

11150500 SALINAS RIVER NEAR BRADLEY, CALIF.

LOCATION.--Lat 35°55'49", long 120°52'04", in SW¼NW¼ sec.14, T.23 S., R.10 E., Monterey County, on left bank 6 mi (10 km) northwest of Bradley, and 7 mi (11 km) downstream from San Antonio River.

DRAINAGE AREA.--2,535 mi² (6,566 km²).

PERIOD OF RECORD.--October 1948 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 442.69 ft (134.932 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE (unadjusted).--26 years, 439 ft³/s (12.43 m³/s), 318,100 acre-ft/yr (392 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 8,800 ft³/s (249 m³/s) Jan. 7 (gage height, 10.10 ft or 3.078 m); minimum daily, 29 ft³/s (0.82 m³/s) Nov. 26 to Dec. 7, Dec. 20 to Jan. 2.

Period of record: Maximum discharge, 117,000 ft³/s (3,310 m³/s) Feb. 24, 1969 (gage height, 20.34 ft or 6.200 m, from floodmarks); no flow at times in 1951, 1954-55, 1957.

REMARKS.--Records poor. Flow partly regulated by Santa Margarita Lake (see sta 11144500), Nacimiento Reservoir beginning in February 1957 (see sta 11149300), and San Antonio Reservoir beginning in December 1965 (see sta 11150100). Several small diversions above station. Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1285: 1950.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	354	120	29	29	245	580	492	80	357	295	500	565
2	354	94	29	29	220	1,360	1,060	78	349	317	484	551
3	346	80	29	426	195	1,930	1,200	76	379	347	466	538
4	338	75	29	1,120	175	1,560	781	74	319	360	459	515
5	330	70	29	3,390	160	988	577	71	309	365	472	538
6	330	67	29	4,140	143	691	430	69	305	359	486	571
7	338	67	29	6,390	135	507	332	68	291	364	485	567
8	338	67	510	5,970	128	1,120	270	64	235	333	516	560
9	330	65	762	6,060	120	987	235	63	233	324	544	568
10	330	65	822	5,170	113	618	223	61	233	425	566	553
11	330	65	858	4,560	108	478	201	59	228	418	602	537
12	330	75	882	4,210	101	406	185	57	228	422	525	533
13	312	72	870	4,070	97	388	179	56	232	452	510	545
14	306	70	846	3,840	93	310	170	54	241	479	492	550
15	306	48	858	3,600	89	242	158	67	244	507	503	558
16	300	36	846	3,440	85	207	148	131	231	515	507	562
17	294	36	726	3,230	81	183	138	140	223	489	493	527
18	294	36	114	3,280	79	163	129	177	255	476	494	536
19	288	36	38	3,300	78	152	124	218	284	497	499	529
20	195	36	29	3,150	84	143	119	223	275	478	501	529
21	165	234	29	2,850	83	133	112	183	280	441	503	536
22	156	570	29	2,650	912	129	108	153	260	434	507	598
23	152	590	29	1,550	614	123	105	155	254	424	480	593
24	148	107	29	900	284	123	101	154	246	408	497	549
25	144	35	29	720	213	118	98	141	244	449	532	532
26	140	29	29	590	130	119	94	132	249	471	593	522
27	140	29	29	485	89	120	91	133	248	499	617	504
28	136	29	29	415	250	153	88	165	276	496	655	487
29	132	29	29	360	-----	712	86	160	271	488	654	479
30	128	29	29	310	-----	441	83	281	281	482	623	469
31	124	-----	29	275	-----	717	-----	332	-----	471	582	-----
TOTAL	7,908	2,961	8,683	80,509	5,104	15,901	8,117	3,875	8,060	13,285	16,347	16,201
MEAN	255	98.7	280	2,597	182	513	271	125	269	429	527	540
MAX	354	590	882	6,390	912	1,930	1,200	372	379	515	655	598
MIN	124	29	29	29	78	118	83	54	223	295	459	469
AC-FT	15,690	5,870	17,220	159,700	10,120	31,540	16,100	7,690	15,990	26,350	32,420	32,130

CAL YR 1973 TOTAL 218,340 MEAN 598 MAX 12,000 MIN 15 AC-FT 433,100
WTR YR 1974 TOTAL 186,951 MEAN 512 MAX 6,390 MIN 29 AC-FT 370,800

NOTE.--No gage-height record Jan. 17 to Feb. 18.

11151300 SAN LORENZO CREEK BELOW BITTERWATER CREEK, NEAR KING CITY, CALIF.

LOCATION.--Lat 36°16'05", long 121°03'55", in NE¼ sec.23, T.19 S., R.8 E., Monterey County, on right bank 1.3 mi (2.1 km) downstream from Bitterwater Creek, 5 mi (8 km) northeast of King City, and 10 mi (16 km) upstream from mouth.

DRAINAGE AREA.--233 mi² (603 km²).

PERIOD OF RECORD.--October 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 431.64 ft (131.564 m) above mean sea level. Prior to Apr. 24, 1967, at site 500 ft (152 m) upstream at datum 5.00 ft (1.524 m) higher.

AVERAGE DISCHARGE.--16 years, 12.2 ft³/s (0.346 m³/s), 8,840 acre-ft/yr (10.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,000 ft³/s (85.0 m³/s) Jan. 7 (gage height, 9.58 ft or 2.920 m); minimum daily, 0.08 ft³/s (0.002 m³/s) Oct. 5, 6, 10, 11, 14, 15.

Period of record: Maximum discharge, 10,800 ft³/s (306 m³/s) Jan. 25, 1969 (gage height, 15.33 ft or 4.673 m in gage well, 16.2 ft or 4.94 m, from floodmarks); no flow many days in 1961 and 1973.

REMARKS.--Records fair. No regulation; small diversions above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.56	1.1	16	3.4	5.4	10	24	3.9	1.3	1.1	.72	.42
2	.56	.90	7.3	3.4	5.4	48	148	3.9	1.3	1.1	.56	.30
3	.56	1.1	4.9	5.2	5.4	124	52	4.9	1.1	1.1	.56	.42
4	.56	1.1	3.4	46	5.4	57	40	5.4	1.1	1.1	.30	.30
5	.08	1.1	3.0	66	5.4	25	30	6.0	1.1	.99	.30	.28
6	.08	1.1	3.0	86	4.9	18	24	6.0	1.1	1.1	.42	.32
7	.42	1.3	3.0	964	4.9	26	20	6.0	1.1	1.3	.42	.33
8	.20	1.3	2.6	707	4.3	185	16	5.4	1.1	1.3	.45	.40
9	.20	1.3	2.2	116	4.9	64	16	5.4	1.1	1.3	.42	.41
10	.08	1.3	2.2	33	4.3	33	16	5.4	.90	1.3	.42	.38
11	.08	1.3	1.9	22	4.3	22	14	6.0	1.3	1.1	.56	.42
12	.30	2.6	1.9	34	4.3	18	12	6.0	1.3	1.1	.42	.37
13	.30	2.6	1.9	50	5.4	17	10	4.9	1.6	.90	.42	.35
14	.08	1.9	1.9	22	4.9	15	9.6	4.9	1.6	.90	.42	.36
15	.08	1.3	1.9	16	4.3	13	9.6	4.3	1.6	.90	.42	.60
16	.30	1.3	1.9	13	4.3	12	8.8	4.3	1.6	.72	.56	.47
17	.30	2.2	1.9	78	4.3	11	8.0	4.3	1.6	.72	.42	.45
18	1.6	14	1.6	31	4.3	11	7.3	4.9	1.9	.56	.42	.40
19	3.4	21	1.9	15	4.9	10	8.0	5.4	1.9	.56	.72	.36
20	3.0	10	1.6	11	4.3	9.6	8.0	4.3	1.6	.56	.56	.37
21	3.4	7.3	3.4	10	3.9	9.6	6.6	4.3	1.9	.42	.72	.39
22	2.2	8.8	10	9.6	3.4	8.8	6.0	4.3	1.6	.42	.72	.41
23	.72	8.0	8.8	8.8	3.4	9.6	5.4	3.9	1.3	.42	.56	.45
24	1.6	6.6	5.4	8.0	3.4	9.6	9.1	3.0	1.6	.42	.30	.41
25	1.3	6.0	3.9	7.3	3.4	11	8.8	3.4	1.3	.42	.30	.52
26	1.3	5.4	3.4	6.6	3.4	16	6.6	3.0	1.1	.42	.30	.52
27	1.1	4.9	3.9	6.6	3.4	14	6.0	2.2	1.1	.30	.30	.58
28	1.1	5.4	6.6	6.6	3.4	133	5.4	1.9	.90	.42	.30	.66
29	1.1	8.0	5.4	6.0	-----	66	4.3	1.9	.90	.56	.56	4.3
30	.90	60	3.9	6.0	-----	40	4.3	1.9	.90	.56	.56	1.3
31	.90	-----	3.0	6.0	-----	38	-----	1.9	-----	.72	.56	-----
TOTAL	28.36	190.20	123.7	2,403.5	123.3	1,084.2	543.8	133.3	39.80	24.79	14.67	17.25
MEAN	.91	6.34	3.99	77.5	4.40	35.0	18.1	4.30	1.33	.80	.47	.58
MAX	3.4	60	16	964	5.4	185	148	6.0	1.9	1.3	.72	4.3
MIN	.08	.90	1.6	3.4	3.4	8.8	4.3	1.9	.90	.30	.30	.28
AC-FT	56	377	245	4,770	245	2,150	1,080	264	79	49	29	34

CAL YR 1973 TOTAL 8,570.57 MEAN 23.5 MAX 1,310 MIN 0 AC-FT 17,000
WTR YR 1974 TOTAL 4,726.87 MEAN 13.0 MAX 964 MIN .08 AC-FT 9,380

PEAK DISCHARGE (BASE, 250 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
1-7	2315	9.58	3,000	3-8	0330	6.60	375
1-17	1545	6.45	288	3-28	1800	6.66	411
3-3	1430	6.39	264	4-2	0445	6.46	295

11151700 SALINAS RIVER AT SOLEDAD, CALIF.

LOCATION.--Lat 36°24'40", long 121°19'06", on boundary between San Vicente and Los Coches Grants, Monterey County, near right bank on upstream end of pier on U.S. Highway 101, 0.9 mi (1.4 km) south of Soledad, and 1 mi (2 km) upstream from Arroyo Seco.

DRAINAGE AREA.--3,563 mi² (9,228 km²).

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 170 ft (52 m), from topographic map.

AVERAGE DISCHARGE (unadjusted).--6 years, 580 ft³/s (16.43 m³/s), 420,200 acre-ft/yr (518 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 8,650 ft³/s (245 m³/s) Jan. 8 (gage height, 16.51 ft or 5.032 m); minimum daily, 52 ft³/s (1.47 m³/s) May 26-31.

Period of record: Maximum discharge, 106,000 ft³/s (3,000 m³/s) Feb. 25, 1969 (gage height, 23.31 ft or 7.105 m); maximum gage height, 23.39 ft (7.129 m) Jan. 26, 1969; minimum daily discharge, 6.0 ft³/s (0.17 m³/s) Mar. 14, 15, 1972.

REMARKS.--Records fair except those for period of no gage-height record, which are poor. Flow partly regulated by Santa Margarita Lake (see sta 11144500), Nacimiento Reservoir (see sta 11149300), and San Antonio Reservoir (see sta 11150100). Several small diversions above station. Records of chemical analyses for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	195	181	134	174	610	212	1,180	116	53	85	162	209
2	205	181	122	172	560	720	1,500	111	71	85	160	221
3	200	177	116	177	495	1,810	1,670	106	87	81	160	228
4	200	163	108	238	467	1,750	1,500	101	101	79	162	226
5	202	157	107	536	420	1,620	1,200	96	109	79	173	226
6	197	152	105	2,060	385	1,420	920	93	111	77	177	221
7	205	148	105	3,190	350	1,250	690	92	114	77	177	221
8	228	144	105	7,000	330	1,120	530	89	116	81	177	224
9	235	138	110	6,010	310	1,140	477	87	116	79	173	236
10	238	136	301	5,570	295	1,200	432	84	113	78	171	236
11	235	134	502	5,010	275	1,150	392	82	109	78	175	231
12	238	140	577	4,550	265	980	362	79	102	102	183	228
13	241	144	655	4,370	245	870	336	78	95	116	185	233
14	241	142	684	4,190	235	770	315	77	89	127	179	236
15	238	140	702	3,950	220	690	296	71	89	135	173	243
16	238	136	731	3,730	210	590	277	65	91	137	175	256
17	241	134	757	3,590	200	500	253	63	93	135	177	261
18	238	124	756	3,690	185	450	233	63	93	135	185	259
19	243	112	575	3,660	188	404	216	62	91	132	198	256
20	252	107	430	3,410	175	370	202	61	88	129	198	259
21	235	90	365	3,150	165	350	191	59	85	127	198	261
22	210	90	320	2,860	160	325	181	58	82	130	193	269
23	205	202	244	2,570	150	300	173	58	82	133	189	279
24	200	348	259	2,210	185	295	165	56	84	129	189	282
25	195	320	242	1,950	177	300	156	53	82	121	193	279
26	186	225	228	1,500	156	280	147	52	79	115	198	282
27	179	177	219	1,200	145	278	144	52	77	115	196	293
28	179	152	209	1,050	142	320	137	52	75	119	191	302
29	177	136	198	910	-----	860	130	52	72	144	193	305
30	174	122	184	780	-----	840	122	52	75	154	198	318
31	181	-----	181	680	-----	1,150	-----	52	-----	158	200	-----
TOTAL	6,631	4,742	10,371	84,137	7,700	24,314	14,527	2,272	2,724	3,472	5,658	7,580
MEAN	214	158	335	2,714	275	784	484	73.3	90.8	112	183	253
MAX	252	348	757	7,000	610	1,810	1,670	116	116	158	200	318
MIN	174	80	105	172	142	212	122	52	53	77	160	209
AC-FT	13,150	9,410	20,570	166,900	15,270	48,230	28,810	4,510	5,400	6,890	11,220	15,030

CAL YR 1973 TOTAL 212,979 MEAN 584 MAX 10,300 MIN 43 AC-FT 422,400
WTR YR 1974 TOTAL 174,128 MEAN 477 MAX 7,000 MIN 52 AC-FT 345,400

NOTE.--No gage-height record Jan. 25 to Apr. 8.

SALINAS RIVER BASIN

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11151870 ARROYO SECO NEAR GREENFIELD, CALIF.

LOCATION.--Lat 36°14'15", long 121°28'50", in NE¼SE¼ sec.36, T.19 S., R.4 E., Monterey County, on right bank 0.6 mi (1.0 km) downstream from Rocky Creek, and 14.5 mi (23.3 km) southwest of Greenfield.

DRAINAGE AREA.--113 mi² (293 km²).

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 780 ft (238 m), from topographic map. Prior to Aug. 27, 1970, at datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE.--13 years, 143 ft³/s (4.050 m³/s), 103,600 acre-ft/yr (128 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 4,980 ft³/s (141 m³/s) Mar. 1 (gage height, 9.94 ft or 3.030 m); minimum daily, 4.6 ft³/s (0.13 m³/s) Oct. 1.

Period of record: Maximum discharge, 21,800 ft³/s (617 m³/s) Dec. 6, 1966 (gage height, 14.50 ft or 4.420 m, present datum), from rating curve extended above 5,000 ft³/s (142 m³/s) on basis of slope-area measurement at gage-height 12.65 ft or 3.856 m, present datum; no flow at times.

REMARKS.--Records good. No regulation; small diversion for fishponds above station by pumping. Records of water temperatures and sediment discharge for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD Calif. 1967: 1966. WRD Calif. 1969: 1967(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	15	1,550	147	157	3,040	899	154	69	37	17	9.1
2	4.7	15	344	126	150	2,600	1,190	148	68	36	16	8.6
3	4.0	15	213	160	142	1,570	817	145	65	36	16	8.6
4	5.4	16	159	217	134	1,060	681	141	64	36	16	8.4
5	5.6	18	130	185	123	833	598	138	62	34	15	7.8
6	5.4	19	110	331	117	717	534	132	61	33	15	7.2
7	7.0	22	96	871	112	849	486	128	58	33	14	6.8
8	16	22	88	893	108	732	447	123	57	33	13	6.6
9	14	21	80	636	104	628	431	120	56	37	14	6.4
10	12	20	73	500	101	558	399	115	55	41	14	6.4
11	11	22	72	437	97	511	370	114	52	38	14	6.4
12	10	230	69	760	96	486	347	110	51	35	14	6.4
13	9.8	53	72	649	98	451	325	107	51	33	14	6.8
14	9.6	54	76	590	93	421	305	105	51	32	14	7.7
15	9.1	43	67	602	89	393	290	102	50	30	13	8.4
16	9.1	47	64	736	86	373	275	100	49	28	13	8.3
17	8.8	621	60	999	84	350	261	100	51	28	13	8.2
18	8.4	414	58	708	82	331	250	102	53	27	12	7.4
19	8.8	150	56	562	86	315	240	102	56	27	12	7.2
20	8.8	98	54	464	84	297	228	97	53	26	12	7.0
21	9.1	81	92	390	79	282	218	94	50	24	13	7.0
22	15	74	232	336	78	268	207	92	48	23	11	7.2
23	52	83	131	297	75	257	209	89	45	22	11	7.0
24	27	70	109	266	73	246	242	85	43	21	11	7.0
25	20	64	96	244	72	242	209	83	42	20	9.1	7.2
26	18	60	89	224	70	240	197	80	42	20	9.1	8.2
27	17	54	220	207	70	418	186	77	41	20	9.1	8.9
28	16	51	222	195	71	1,080	179	74	39	20	9.6	9.1
29	16	49	171	185	-----	654	168	73	38	20	10	8.4
30	15	102	144	171	-----	975	162	72	37	18	10	7.7
31	15	-----	128	163	-----	708	-----	71	-----	18	9.9	-----
TOTAL	393.5	2,675	5,125	13,251	2,731	21,885	11,350	3,273	1,557	886	393.8	227.4
MEAN	12.7	89.2	165	427	97.5	706	378	106	51.9	28.6	12.7	7.58
MAX	52	621	1,550	999	157	3,040	1,190	154	69	41	17	9.1
MIN	4.6	15	54	126	70	240	162	71	37	18	9.1	6.4
AC-FT	781	5,310	10,170	26,280	5,420	43,410	22,510	6,490	3,090	1,760	781	451

CAL YR 1973 TOTAL 87,271.7 MEAN 239 MAX 4,420 MIN 4.0 AC-FT 173,100
 ITR YR 1974 TOTAL 63,747.7 MEAN 175 MAX 3,040 MIN 4.0 AC-FT 126,400.

PEAK DISCHARGE (BASE, 1,500 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-17	1900	8.52	2,680	3-28	0730	8.20	2,290
12-1	0230	9.69	4,480	4-1	2315	8.01	2,080
3-1	1030	9.94	4,980				

11152000 ARROYO SECO NEAR SOLEDAD, CALIF.

LOCATION.--Lat 36°16'50", long 121°19'20", in SW¼NE¼ sec.16, T.19 S., R.6 E., Monterey County, on right bank just downstream from bridge, 1.5 mi (2.4 km) downstream from Vaquero Creek, and 10 mi (16 km) south of Soledad.

DRAINAGE AREA.--244 mi² (632 km²).

PERIOD OF RECORD.--November 1901 to current year. Records for water year 1902 incomplete, yearly estimate published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 342.20 ft (104.303 m) above mean sea level (Corps of Engineers bench mark). Prior to June 16, 1929, nonrecording gage, and June 16, 1929, to Dec. 2, 1941, water-stage recorder at site 1 mi (1.6 km) upstream at different datum. Dec. 3, 1941, to Sept. 30, 1959, water-stage recorder at datum 2.00 ft (0.610 m) higher. Jan. 30 to Mar. 26, 1969, nonrecording gage at bridge at same datum.

AVERAGE DISCHARGE.--73 years, 163 ft³/s (4.616 m³/s), 118,100 acre-ft/yr (146 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 6,100 ft³/s (173 m³/s) Mar. 1 (gage height, 9.45 ft or 2.880 m); minimum daily, 2.2 ft³/s (0.062 m³/s) Oct. 1, 4, 5.

Period of record: Maximum discharge, 28,300 ft³/s (801 m³/s) Apr. 3, 1958 (gage height, 16.40 ft or 4.999 m, present datum), from rating curve extended above 12,000 ft³/s (340 m³/s) on basis of slope-area measurement at gage height 16.30 ft (4.968 m); no flow at times during several years.

REMARKS.--Records good. No regulation or large diversion above station.

REVISIONS (WATER YEARS).--WSP 881: 1902-9 (yearly summary only). WSP 1565: 1916-19, 1920-21(M), 1922, 1926-27, 1928-30(M), 1932, 1934, 1936(M). WSP 1715: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	11	2,000	154	163	2,660	907	161	79	38	14	6.2
2	2.4	11	454	140	156	3,220	1,690	156	81	38	14	6.2
3	2.4	11	255	165	148	1,900	993	154	77	36	13	6.0
4	2.2	14	143	295	142	1,250	778	150	74	36	13	5.8
5	2.2	13	144	226	134	966	663	148	70	35	13	5.6
6	2.4	14	124	343	130	778	588	142	68	33	11	5.3
7	2.4	17	109	1,280	124	796	527	138	65	32	10	4.8
8	4.3	22	97	1,420	120	845	483	132	63	32	9.9	4.7
9	11	24	88	845	113	658	462	128	61	33	11	4.4
10	8.5	25	79	612	111	574	429	124	59	39	10	4.6
11	7.1	30	72	501	107	514	394	124	58	40	8.8	4.3
12	6.2	221	74	842	103	479	368	120	56	37	8.4	4.1
13	5.8	111	68	814	104	437	343	115	55	34	8.3	4.3
14	5.5	66	82	699	103	402	322	115	53	32	8.1	4.5
15	5.5	60	71	705	99	375	305	111	53	29	9.0	4.8
16	5.5	57	66	826	95	350	292	109	50	27	8.5	5.4
17	4.7	569	63	1,420	93	329	276	109	53	26	8.5	5.9
18	4.7	767	60	1,000	91	308	267	111	54	25	8.0	6.2
19	5.5	210	57	767	91	292	255	117	60	24	7.7	6.0
20	5.5	128	54	612	97	273	243	111	57	23	7.5	5.8
21	5.5	95	57	501	90	258	232	105	52	21	7.3	5.4
22	5.4	81	243	421	86	246	218	105	48	18	7.3	5.1
23	29	95	148	364	84	237	213	99	45	17	7.1	5.0
24	38	77	122	318	81	226	249	95	44	17	6.3	5.1
25	21	69	105	286	79	221	221	93	43	16	6.2	4.7
26	16	62	95	255	77	218	205	90	42	15	6.1	5.2
27	14	57	170	232	76	360	193	86	42	15	6.2	5.5
28	13	52	249	213	76	1,230	183	84	41	14	6.2	5.8
29	11	49	186	198	-----	778	176	86	40	14	6.2	6.4
30	11	48	159	183	-----	1,140	167	84	39	15	6.3	6.1
31	11	-----	142	170	-----	851	-----	81	-----	15	6.2	-----
TOTAL	271.7	3,066	5,884	16,887	2,978	23,171	12,642	3,583	1,682	826	273.1	159.2
MEAN	8.76	102	190	545	106	747	421	116	56.1	26.6	8.81	5.31
MAX	38	767	2,000	1,420	163	3,220	1,690	161	81	40	14	6.4
MIN	2.2	11	54	140	76	218	167	81	39	14	6.1	4.1
AC-FT	539	6,080	11,670	33,500	5,910	45,960	25,080	7,110	3,340	1,640	542	316

CAL YR 1973 TOTAL 112,636.4 MEAN 309 MAX 5,500 MIN 1.2 AC-FT 223,400
WTR YR 1974 TOTAL 71,423.0 MEAN 196 MAX 3,220 MIN 2.2 AC-FT 141,700

PEAK DISCHARGE (BASE, 2,500 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-17	2230	7.95	3,540	3-1	1300	9.45	6,100
12-1	0545	9.43	6,060	4-2	0200	7.25	2,570

11152500 SALINAS RIVER NEAR SPRECKELS, CALIF.

LOCATION.--Lat 36°37'52", long 121°40'17", in Nacional Grant, Monterey County, on right bank on downstream side of bridge on Salinas-Monterey highway, 0.8 mi (1.3 km) upstream from El Toro Creek, 1.6 mi (2.6 km) northwest of Spreckels, and 2 mi (3 km) south of Salinas.

DRAINAGE AREA.--4,156 mi² (10,764 km²).

PERIOD OF RECORD.--January 1900 to August 1901, October 1929 to current year. Records for water year 1930 incomplete, yearly estimate published in WSP 1315-B. Published as "near Salinas" 1900-1901.

GAGE.--Water-stage recorder. Datum of gage is 20.56 ft (6.267 m) above mean sea level. 1900-1901, May 10 to July 29, 1940, nonrecording gages at site 0.3 mi (0.5 km) downstream at different datum. July 29, 1940, to May 22, 1969, water-stage recorder at site 0.3 mi (0.5 km) downstream at datum 0.69 ft (0.210 m) lower. May 23, 1969, to Jan. 13, 1970, nonrecording gage at same site and datum. Mar. 17, 1941, to June 30, 1961, supplementary nonrecording gages, July 1, 1961, to May 22, 1969, auxiliary water-stage recorder at site 0.3 mi (0.5 km) downstream at datum 0.69 ft (0.210 m) lower.

AVERAGE DISCHARGE.--45 years (1929-74), 409 ft³/s (11.58 m³/s), 296,300 acre-ft/yr (365 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 9,460 ft³/s (268 m³/s) Jan. 9 (gage height, 12.70 ft or 3.871 m); minimum daily, 1.4 ft³/s (0.040 m³/s) July 26, 27, July 30 to Aug. 2, Aug. 5-8.

Period of record: Maximum discharge, 83,100 ft³/s (2,350 m³/s) Feb. 26, 1969 (gage height, 26.51 ft or 8.080 m, site and datum then in use); maximum gage height, 26.85 ft (8.184 m) Jan. 16, 1952, site and datum then in use from floodmarks; no flow at times in 1929-40.

REMARKS.--Records fair. Large withdrawals from ground water and small surface-water diversions for municipal use and irrigation of about 95,000 acres (384 km²) above station. Low flow represents waste water from Spreckels sugar refinery and Alisal sewage disposal plant. Flow partly regulated by Nacimiento Reservoir beginning in February 1957 (see sta 11149300) and San Antonio Reservoir beginning in December 1965 (see sta 11150100). Records of chemical analyses, water temperatures, and sediment discharge for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1565: 1930, 1935, 1945. WSP 1715: 1959.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	56	91	40	795	196	1,480	124	5.3	6.0	1.4	33
2	23	57	759	33	703	1,950	1,950	111	5.4	5.1	1.4	36
3	27	59	506	68	637	2,330	2,120	101	5.8	4.3	1.6	40
4	30	59	196	421	581	2,200	1,870	92	5.6	3.9	1.6	47
5	32	58	99	328	530	2,010	1,660	88	4.5	4.5	1.4	52
6	33	56	74	398	481	1,740	1,410	82	11	4.8	1.4	52
7	40	54	67	2,290	450	1,510	1,230	77	20	3.6	1.4	49
8	40	52	58	5,850	424	1,420	1,090	71	20	3.2	1.4	50
9	59	49	51	7,450	398	1,430	1,000	75	22	4.2	6.7	52
10	60	47	47	6,190	375	1,520	892	57	23	3.9	12	58
11	77	46	96	5,410	353	1,350	794	54	21	2.8	14	62
12	83	45	201	4,950	335	1,170	708	51	19	2.6	15	62
13	88	45	284	4,790	317	1,050	620	47	16	2.6	17	61
14	89	45	342	4,580	301	956	543	45	13	1.9	20	61
15	90	46	402	4,360	284	880	480	42	10	1.9	21	63
16	95	47	442	4,130	272	804	432	39	7.7	1.9	16	66
17	98	51	479	4,160	254	716	389	35	6.5	2.2	20	75
18	99	56	501	4,370	242	644	351	32	10	2.3	21	81
19	96	217	506	4,160	242	585	306	30	12	2.3	23	84
20	101	144	338	4,020	225	533	275	28	9.4	2.3	26	85
21	104	60	209	3,790	212	471	245	26	6.6	1.9	29	90
22	108	50	146	3,520	204	413	222	24	6.1	1.6	30	94
23	104	45	103	3,370	194	375	211	21	6.0	1.6	29	98
24	78	48	82	3,200	196	342	196	18	5.9	1.6	27	109
25	71	150	69	2,660	301	321	196	16	5.6	1.6	24	118
26	65	278	59	1,930	257	317	188	16	5.4	1.4	25	120
27	64	191	136	1,570	220	311	170	15	5.3	1.4	28	122
28	62	124	60	1,340	199	556	158	10	4.7	1.6	30	126
29	50	94	56	1,180	-----	1,100	147	6.2	4.4	1.6	30	134
30	50	82	48	1,020	-----	1,060	136	5.4	4.7	1.4	31	138
31	50	-----	40	890	-----	1,460	-----	4.7	-----	1.4	32	-----
TOTAL	2,130	2,411	6,591	92,468	9,982	31,720	21,469	1,443.3	301.9	83.4	538.3	2,318
MEAN	68.7	80.4	213	2,983	357	1,023	716	46.6	10.1	2.69	17.4	77.3
MAX	108	278	759	7,450	795	2,330	2,120	124	23	6.0	32	138
MIN	22	45	40	33	194	196	136	4.7	4.4	1.4	1.4	33
AC-FT	4,220	4,780	13,070	183,400	19,800	62,920	42,580	2,860	599	165	1,070	4,600

CAL YR 1973 TOTAL 222,837.71 MEAN 611 MAX 14,400 MIN .61 AC-FT 442,000
WTR YR 1974 TOTAL 171,455.90 MEAN 470 MAX 7,450 MIN 1.4 AC-FT 340,100

11152540 EL TORO CREEK NEAR SPRECKELS, CALIF.

LOCATION.--Lat 36°35'00", long 121°42'50", in El Toro Grant, Monterey County, on right bank 0.3 mi (0.5 km) downstream from San Benancio Gulch, and 4.7 mi (7.6 km) southwest of Spreckels.

DRAINAGE AREA.--31.9 mi² (82.6 km²).

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 210 ft (64 m), from topographic map.

AVERAGE DISCHARGE.--13 years, 1.70 ft³/s (0.0481 m³/s), 1,230 acre-ft/yr (1.52 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 399 ft³/s (11.3 m³/s) Jan. 3 (gage height, 5.44 ft or 1.658 m), from rating curve extended as explained below; minimum daily, 0.02 ft³/s (0.001 m³/s) Aug. 24, 25.
Period of record: Maximum discharge, 626 ft³/s (17.7 m³/s) Jan. 26, 1969 (gage height, 5.99 ft or 1.826 m), from rating curve extended above 93 ft³/s (2.63 m³/s) on basis of slope-area measurement of maximum flow; no flow for many days in most years.

REMARKS.--Records fair except those for Oct. 1 to Nov. 8, which are poor. No regulation or diversion above station except for minor stock ponds.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.15	2.7	1.7	1.3	1.4	58	.49	.29	.42	.08	.11
2	.10	.15	.42	.86	1.1	2.5	87	.49	.29	.29	.08	.11
3	.09	.15	.35	82	1.0	12	34	.42	.29	.29	.06	.09
4	.09	.17	.36	77	1.0	3.9	22	.42	.29	.35	.04	.10
5	.11	.24	.33	21	1.0	1.9	15	.35	.29	.20	.04	.11
6	.09	.48	.29	19	.94	1.5	11	.42	.29	.20	.04	.09
7	.45	.34	.29	78	.85	5.4	8.6	.42	.29	.20	.04	.10
8	1.7	.18	.29	50	.85	5.8	6.8	.29	.29	.20	.06	.11
9	.08	.35	.29	28	.85	2.1	10	.20	.24	.29	.08	.11
10	.15	.31	.29	19	.85	1.6	6.9	.20	.20	.24	.09	.10
11	.22	.68	.27	15	.85	1.4	4.5	.24	.24	.20	.08	.08
12	.22	1.5	.29	13	.94	1.3	3.1	.24	.20	.16	.08	.47
13	.05	.32	.37	9.8	.85	1.0	2.4	.24	.24	.20	.06	.12
14	.03	.35	.29	7.9	.85	.72	1.8	.24	.29	.20	.06	.11
15	.13	.23	.29	6.4	.85	.45	1.3	.29	.24	.13	.07	.12
16	.65	.41	.29	8.4	1.0	.37	1.2	.29	.35	.13	.05	.14
17	.03	1.4	.32	11	.94	.32	.97	.24	.49	.16	.06	.11
18	.03	.71	.29	8.1	.94	.35	.95	.24	.57	.16	.06	.11
19	.03	.27	.29	6.4	1.7	.35	.83	.29	.49	.13	.04	.12
20	.04	.26	.38	5.2	1.1	.33	.78	.29	.57	.10	.04	.13
21	.06	.25	2.0	3.5	.94	.25	.64	.29	.66	.10	.03	.13
22	.15	.79	.73	2.5	1.0	.28	.67	.29	.75	.10	.03	.15
23	.35	.34	.50	2.3	.94	.37	1.2	.29	.75	.08	.04	.12
24	.22	.28	.57	2.0	.94	.38	1.1	.29	.85	.06	.02	.13
25	.15	.31	.60	1.7	.94	.36	.66	.29	.85	.06	.02	.28
26	.15	.28	.74	1.6	.94	.49	.57	.29	.75	.06	.03	.19
27	.08	.27	4.7	1.3	.94	.58	.57	.29	.66	.08	.03	.12
28	.15	.28	.22	1.1	.94	31	.66	.35	.57	.08	.04	.14
29	.15	.29	.45	1.1	-----	9.3	.57	.35	.42	.08	.04	.12
30	.16	.71	1.6	1.1	-----	6.8	.49	.29	.49	.10	.16	.10
31	.22	-----	1.0	1.1	-----	9.1	-----	.29	-----	.08	.15	-----
TOTAL	6.23	12.45	21.80	487.06	27.34	103.60	284.26	9.61	13.19	5.13	1.80	4.02
MEAN	.20	.42	.70	15.7	.98	3.34	9.48	.31	.44	.17	.058	.13
MAX	1.7	1.5	4.7	82	1.7	31	87	.49	.85	.42	.16	.47
MIN	.03	.15	.22	.86	.85	.25	.49	.20	.20	.06	.02	.08
AC-FT	12	25	43	966	54	205	564	19	26	10	3.6	8.0

CAL YR 1973 TOTAL 1,943.81 MEAN 5.33 MAX 241 MIN .03 AC-FT 3,860
WTR YR 1974 TOTAL 976.49 MEAN 2.68 MAX 87 MIN .02 AC-FT 1,940

PEAK DISCHARGE (BASE, 10 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-27	0515	3.34	17	3-7	2215	3.28	14
1-3	2130	5.44	399	3-28	0800	3.98	68
1-7	1130	4.41	130	4-1	2345	4.83	217
1-16	1515	3.16	10	4-9	1115	3.28	14
3-3	0900	3.47	24				

11152570 ALISAL CREEK NEAR SALINAS, CALIF.

LOCATION.--Lat 36°41'33", long 121°34'04", in El Alisal (Bernal) Grant, Monterey County, on left bank at upstream side of Old Stage Road bridge, 5.1 mi (8.2 km) northeast of Salinas.

DRAINAGE AREA.--14.2 mi² (36.8 km²).

PERIOD OF RECORD.--October 1970 to September 1974 (discontinued). December 1965 to September 1970 in reports of Monterey County Flood Control and Water Conservation District.

GAGE.--Water-stage recorder. Altitude of gage is 200 ft (61 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 780 ft³/s (22.1 m³/s) Apr. 1 (gage height, 5.68 ft or 1.731 m), from rating curve extended as explained below; no flow for several months.

Period of record: Maximum discharge, 780 ft³/s (22.1 m³/s) Apr. 1, 1974 (gage height, 5.68 ft or 1.731 m), from rating curve extended above 66 ft³/s (1.87 m³/s) on basis of contracted-opening measurement and computation of maximum flow through culvert; no flow for most of each year.

REVISIONS.--The maximum discharge for the water year 1973 has been revised to 135 ft³/s (3.82 m³/s) Feb. 13, 1973 (gage height, 3.21 ft or 0.978 m), superseding figure published in WRD Calif. 1973.

REMARKS.--Records poor. Small reservoir 200 ft (61 m) upstream diverts water for irrigation during most flow periods. Reservoir controls all but high flows.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	47	.87	0	500	3.4	.39	.28	.23	.68
2			0	45	.83	.19	200	3.2	.45	.30	.24	.68
3			0	54	.80	.67	120	3.0	.62	.31	.24	.70
4			0	36	.80	.07	65	2.9	1.1	.32	.25	.70
5			0	11	.50	0	39	2.8	1.5	.33	.26	.67
6			0	7.0	0	0	26	2.7	2.3	.33	.26	.65
7			0	41	0	.03	21	2.6	1.3	.33	.27	.62
8			0	30	0	.01	18	2.5	.90	.32	.28	.57
9			0	18	0	0	24	2.5	.68	.32	.29	.53
10			0	15	0	0	16	2.5	.52	.31	.30	.50
11			0	13	0	0	14	2.6	.45	.31	.31	.46
12			0	12	0	0	13	2.9	.40	.30	.33	.43
13			0	10	.27	0	12	3.6	.36	.29	.34	.39
14			0	8.9	.55	0	12	4.0	.40	.28	.36	.35
15			0	8.2	.26	0	12	3.6	.48	.27	.38	.33
16			0	7.0	0	0	11	3.0	.60	.26	.39	.30
17			0	7.0	0	0	11	2.6	.45	.24	.41	.29
18			0	5.6	0	0	10	2.0	.31	.24	.42	.27
19			0	4.4	0	.55	9.8	1.8	.27	.23	.44	.26
20			0	3.1	0	0	9.6	1.4	.25	.22	.45	.25
21			0	2.0	0	0	9.9	1.1	.24	.22	.47	.24
22			0	1.6	0	0	11	.90	.24	.22	.49	.23
23			0	1.4	0	0	12	.75	.23	.21	.51	.22
24			0	1.4	0	0	7.3	.62	.23	.21	.53	.21
25			0	1.2	0	0	6.6	.54	.23	.21	.54	.21
26			0	1.2	0	0	5.8	.49	.23	.21	.56	.20
27			31	1.1	0	0	5.2	.45	.24	.21	.58	.19
28			50	.94	0	27	4.5	.42	.24	.22	.60	.19
29			50	.94	-----	2.4	4.1	.40	.24	.22	.62	.18
30			48	.94	-----	4.8	3.7	.38	.25	.22	.64	.18
31		-----	48	.87	-----	2.2	-----	.37	-----	.23	.66	-----
TOTAL	0	0	227	396.79	4.88	37.92	1,213.5	62.02	16.10	8.17	12.65	11.68
MEAN	0	0	7.32	12.8	.17	1.22	40.5	2.00	.54	.26	.41	.39
MAX	0	0	50	54	.87	27	500	4.0	2.3	.33	.66	.70
MIN	0	0	0	.87	0	0	3.7	.37	.23	.21	.23	.18
AC-FT	0	0	450	787	9.7	75	2,410	123	32	16	25	23
CAL YR 1973	TOTAL	1,584.25	MEAN	4.34	MAX	84	MIN	0	AC-FT	3,140		
WTR YR 1974	TOTAL	1,990.71	MEAN	5.45	MAX	500	MIN	0	AC-FT	3,950		

TEMBLADERO SLOUGH BASIN

11152600 GABILAN CREEK NEAR SALINAS, CALIF.

LOCATION.--Lat 36°45'21", long 121°36'34", in La Natividad Grant, Monterey County, on right bank at downstream side of county road bridge, 0.3 mi (0.5 km) downstream from small left-bank tributary, and 6.2 mi (10.0 km) northeast of Salinas.

DRAINAGE AREA, --36.7 mi² (95.1 km²).

PERIOD OF RECORD.--October 1970 to current year. January 1959 to September 1970 in reports of Monterey County Flood Control and Water Conservation District.

GAGE.--Water-stage recorder. Altitude of gage is 200 ft (61 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 800 ft³/s (22.7 m³/s) Apr. 1 (gage height, 11.13 ft or 3.392 m), from rating curve extended as explained below; no flow for many days.
Period of record: Maximum discharge, 800 ft³/s (22.7 m³/s) Apr. 1, 1974 (gage height, 11.13 ft or 3.392 m), from rating curve extended above 110 ft³/s (3.12 m³/s) on basis of slope-area measurement of maximum flow; no flow for most of each year.

REMARKS.--Records poor. No regulation or diversion above station.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FER	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	0	8.0	8.9	4.5	262	16	7.4	.07	0	0
2		0	0	11	8.6	20	298	15	6.9	.03	0	0
3		0	0	22	8.2	55	158	15	6.4	.12	0	.07
4		0	0	110	7.4	43	109	14	6.0	.20	0	.30
5		0	0	115	7.0	30	85	14	5.7	.11	.57	.20
6		0	0	110	6.6	26	69	13	5.4	.58	.01	.94
7		0	0	120	6.6	30	58	13	5.1	.03	0	0
8		0	0	86	6.6	27	51	12	4.8	.10	.03	0
9		0	0	60	6.6	21	58	13	4.6	.30	.04	0
10		0	0	45	7.2	17	47	12	4.3	.42	0	0
11		0	0	38	7.4	17	46	11	4.0	.12	0	0
12		0	0	34	7.2	16	40	11	3.7	.20	.11	.02
13		0	0	28	7.0	14	37	11	3.6	.42	.01	0
14		0	0	24	6.0	13	32	10	3.6	.42	0	0
15		0	0	22	5.6	12	30	10	3.6	.58	0	0
16		0	0	22	6.0	12	30	9.8	5.1	.74	0	0
17		.53	0	22	6.4	11	30	9.5	5.1	.58	.04	0
18		1.0	0	21	6.4	11	30	9.3	5.5	.42	.04	0
19		.53	0	21	8.6	12	30	9.0	7.4	.26	.02	0
20		0	0	20	7.4	12	29	8.8	8.4	.08	0	.51
21		0	0	18	7.0	12	26	8.6	11	.30	0	.42
22		0	0	16	7.2	12	26	8.4	11	.01	0	.20
23		0	0	14	7.2	13	28	8.1	9.9	0	0	.12
24		0	0	12	5.9	13	30	8.0	9.9	0	0	0
25		0	0	11	4.9	12	25	7.8	11	0	0	.04
26		0	0	11	4.4	11	22	7.6	9.9	0	0	.30
27		0	200	10	5.0	11	20	7.4	3.3	0	0	.42
28		0	95	10	4.3	87	19	7.2	1.4	0	0	.42
29		0	58	10	-----	39	18	7.1	.50	0	0	.74
30		0	31	9.3	-----	43	17	7.0	.19	0	0	.29
31		-----	17	8.9	-----	30	-----	6.8	-----	0	0	-----
TOTAL	0	2.06	401	1,069.2	187.6	686.5	1,760	320.4	174.69	6.09	.87	4.99
MEAN	0	.069	12.9	34.5	6.70	22.1	58.7	10.3	5.82	.20	.028	.17
MAX	0	1.0	200	120	8.9	87	298	16	11	.74	.57	.94
MIN	0	0	0	8.0	4.3	4.5	17	6.8	.19	0	0	0
AC=FT	0	4.1	795	2,120	372	1,360	3,490	636	346	12	1.7	9.9

CAL YR 1973	TOTAL 4,083.91	MEAN 11.2	MAX 279	MIN 0	AC-FT 8,100
WTR YR 1974	TOTAL 4,613.40	MEAN 12.6	MAX 298	MIN 0	AC-FT 9,150

		PEAK DISCHARGE (BASE, 60 FT ³ /S)					
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-27	unknown	--	unknown	3-1	2330	6.14	90
1-3	unknown	--	unknown	3-28	0400	6.48	113
1-7	unknown	--	unknown	4-1	2330	11.13	800

11152650 RECLAMATION DITCH NEAR SALINAS, CALIF.

LOCATION.--Lat 36°42'18", long 121°42'14", in Rincon Del Zanjon Grant, Monterey County, on right bank at upstream side of San Jon Road bridge, and 3.4 mi (5.5 km) northwest of Salinas.

PERIOD OF RECORD.--October 1970 to current year. March 1968 to September 1970 in reports of Monterey County Flood Control and Water Conservation District.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 30 ft (9.1 m), from topographic map.

EXTREMES.--Period of record: Maximum daily discharge, 473 ft³/s (13.4 m³/s) Apr. 2, 1974; minimum daily, 0.34 ft³/s (0.010 m³/s) Jan. 2, 1972.

REMARKS.--Records fair. Flow is mostly drainage from Carr Lake area for farming.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	8.7	54	56	8.3	20	188	20	10	8.7	13	6.4
2	13	8.0	27	22	7.6	50	473	19	6.8	9.6	14	4.4
3	13	7.0	8.9	40	6.6	82	471	19	5.5	9.8	11	4.6
4	13	6.3	9.1	266	5.7	69	424	20	8.5	11	9.4	9.4
5	12	5.7	7.4	279	7.4	55	366	19	8.0	10	8.7	7.8
6	15	39	7.4	264	6.8	48	292	17	7.8	12	15	6.4
7	38	41	7.6	291	6.3	44	208	18	8.5	7.8	17	7.8
8	38	13	5.9	309	6.4	43	211	17	9.1	4.4	15	7.0
9	24	9.6	3.6	282	6.3	39	116	17	7.0	21	16	6.4
10	11	7.8	3.8	274	5.4	31	82	16	6.8	8.5	11	16
11	8.9	5.9	6.3	188	5.4	27	65	16	8.9	4.1	4.7	17
12	7.6	46	6.3	133	10	27	56	14	8.3	3.9	5.7	14
13	7.4	17	11	82	10	25	52	14	7.4	3.3	14	13
14	4.9	13	6.3	61	7.6	24	51	16	8.5	3.6	15	14
15	3.6	7.2	3.6	47	7.4	22	50	15	8.5	4.1	13	6.8
16	7.6	22	1.4	44	6.8	17	45	15	6.1	7.4	9.4	4.3
17	7.0	34	4.7	43	6.6	13	41	15	5.2	4.7	8.3	7.0
18	8.0	48	5.4	38	3.9	11	35	15	19	3.6	4.9	6.6
19	8.3	21	4.9	30	25	14	32	14	28	3.2	5.9	9.1
20	8.9	13	5.2	26	12	14	29	13	11	3.9	11	15
21	8.7	13	17	24	9.4	15	26	14	9.8	2.7	8.5	11
22	14	21	29	21	9.6	17	26	15	9.1	1.2	8.7	6.1
23	22	16	9.4	19	7.8	18	31	14	7.0	3.6	8.5	7.1
24	7.6	9.8	2.7	18	6.1	16	35	13	5.9	3.9	10	15
25	6.4	7.0	2.2	15	5.7	16	28	13	7.6	7.9	5.5	14
26	5.5	7.0	4.1	13	6.6	20	23	10	9.6	13	5.1	15
27	4.7	7.8	141	11	5.7	20	21	7.2	9.1	8.5	7.2	17
28	3.8	7.6	248	10	5.9	184	20	8.0	11	3.3	9.1	15
29	3.5	7.4	211	11	-----	181	19	11	10	2.7	15	12
30	6.3	8.5	159	8.9	-----	136	20	11	7.8	5.7	14	8.3
31	5.8	-----	96	8.3	-----	94	-----	12	-----	10	10	-----
TOTAL	348.5	478.3	1,109.2	2,934.2	218.3	1,392	3,536	457.2	275.8	207.1	323.6	303.5
MEAN	11.2	15.9	35.8	94.7	7.80	44.9	118	14.7	9.19	6.68	10.4	10.1
MAX	38	48	248	309	25	184	473	20	28	21	17	17
MIN	3.5	5.7	1.4	8.3	3.9	11	19	7.2	5.2	1.2	4.7	4.3
AC-FT	691	949	2,200	5,820	433	2,760	7,010	907	547	411	642	602

CAL YR 1973 TOTAL 10,213.7 MEAN 28.0 MAX 401 MIN 1.4 AC-FT 20,260
WTR YR 1974 TOTAL 11,583.7 MEAN 31.7 MAX 473 MIN 1.2 AC-FT 22,980

11152900 CEDAR CREEK NEAR BELL STATION, CALIF.

LOCATION.--Lat 37°03'00", long 121°19'35", in San Luis Gonzaga Grant, Santa Clara County, on left bank 0.5 mi (0.8 km) upstream from Hagerman Canyon, and 1.3 mi (2.1 km) northwest of Bell Station.

DRAINAGE AREA.--12.8 mi² (33.2 km²).

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 390 ft (119 m), from topographic map.

AVERAGE DISCHARGE.--13 years, 4.51 ft³/s (0.128 m³/s), 3,270 acre-ft/yr (4.03 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 346 ft³/s (9.80 m³/s) Mar. 2 (gage height, 3.25 ft or 0.991 m); no flow many days.

Period of record: Maximum discharge, 3,490 ft³/s (98.8 m³/s) Jan. 31, 1963 (gage height, 6.85 ft or 2.088 m), from rating curve extended above 560 ft³/s (15.9 m³/s) on basis of slope-area measurement at gage height 4.66 ft (1.420 m); no flow for several months in each year.

REMARKS.--Records good except those for period of no gage-height record, which are fair. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.02	55	6.7	1.4	118	54	1.2	.45	.07	.01	.01
2	.01	.02	13	4.1	1.2	215	67	1.2	.39	.07	.01	.01
3	.01	.03	3.3	3.3	1.1	182	31	1.1	.39	.07	.01	.01
4	.02	.05	1.4	.37	1.1	54	18	1.0	.39	.07	.01	0
5	.04	.06	1.2	.37	1.0	31	12	1.0	.34	.07	.01	0
6	.05	.13	.92	.43	.92	18	.9	1.0	.29	.06	.01	0
7	.10	.06	.83	.72	.92	17	6.7	1.0	.29	.06	.01	0
8	.05	.05	.66	.43	.83	18	5.6	1.0	.25	.06	.01	0
9	.03	.05	.66	.25	.83	9.9	5.9	.92	.25	.06	.01	0
10	.01	.05	.58	18	.83	7.5	4.6	.92	.25	.06	0	0
11	.01	.08	.58	13	.83	5.9	3.8	.83	.21	.05	.01	0
12	.01	.34	.58	8.6	.83	5.8	3.5	.83	.21	.05	.01	0
13	.01	.16	.66	5.2	.83	4.6	3.1	.83	.21	.05	.01	0
14	.01	.16	.66	3.5	.83	4.1	2.9	.83	.21	.05	.01	0
15	.01	.10	.66	3.3	.83	3.5	2.7	.74	.18	.05	.01	0
16	.01	.16	.58	2.4	.74	3.1	2.5	.74	.18	.04	.01	0
17	.01	9.3	.58	4.1	.74	2.9	2.5	.74	.18	.04	.01	0
18	.01	9.7	.51	4.4	.74	4.8	2.5	.74	.18	.04	0	0
19	.01	1.6	.51	4.4	.74	3.5	2.5	.66	.18	.04	0	0
20	.04	.30	.51	4.1	.92	2.5	2.1	.66	.15	.04	0	0
21	.05	.70	2.7	3.3	.83	2.1	1.9	.66	.12	.03	0	0
22	.06	.61	15	2.7	.74	1.9	1.9	.66	.10	.03	0	0
23	.13	.46	4.1	2.5	.74	1.9	1.9	.66	.10	.03	0	0
24	.03	.46	2.5	2.1	.74	1.9	2.3	.66	.10	.03	0	0
25	.02	.40	1.6	1.9	.74	1.9	1.9	.58	.10	.03	0	0
26	.02	.40	1.5	1.9	.66	2.5	1.8	.58	.08	.02	0	0
27	.02	.34	.42	1.6	.66	2.5	1.6	.51	.08	.02	0	0
28	.02	.34	.40	1.5	.66	.44	1.6	.51	.08	.02	0	0
29	.02	.34	15	1.4	-----	18	1.4	.51	.08	.02	0	0
30	.02	.40	8.4	1.4	-----	47	1.2	.45	.08	.02	.01	0
31	.02	-----	5.3	1.4	-----	30	-----	.45	-----	.02	.01	-----
TOTAL	.87	27.47	271.94	364.3	23.93	864.4	259.3	24.17	6.10	1.37	.18	.03
MEAN	.028	.92	8.77	11.8	.85	27.9	8.64	.78	.20	.044	.006	.001
MAX	.13	4.7	.92	.72	1.4	215	67	1.2	.45	.07	.01	.01
MIN	.01	.02	.51	1.4	.66	1.9	1.2	.45	.08	.02	0	0
AC-FI	1.7	54	539	723	47	1,710	514	48	12	2.7	.4	.06

CAL YR 1973 TOTAL 2,645.74 MEAN 7.36 MAX 217 MIN 0 AC-FI 5,330
WTR YR 1974 TOTAL 1,844.10 MEAN 5.05 MAX 215 MIN 0 AC-FI 3,660

PEAK DISCHARGE (BASE, 150 FT³/S).--Mar. 2 (1315) 346 ft³/s (3.25 ft); Apr. 1 (2200) 160 ft³/s (2.65 ft).

NOTE.--No gage-height record June 26 to Aug. 8.

11153000 PACHECO CREEK NEAR DUNNEVILLE, CALIF.

LOCATION.--Lat 36°58'48", long 121°22'45", in Ausaymas y San Felipe Grant, Santa Clara County, on right bank 350 ft (107 m) downstream from private road bridge, and 3.3 mi (5.3 km) northeast of Dunneville.

DRAINAGE AREA.--146 mi² (378 km²).

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only prior to January 1940, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 230.70 ft (70.317 m) above mean sea level. Prior to Nov. 17, 1950, nonrecording gage at site 350 ft (107 m) upstream at datum 6.00 ft (1.829 m) higher and Nov. 17, 1950, to Aug. 18, 1960, at datum 4.00 ft (1.219 m) higher.

AVERAGE DISCHARGE.--35 years, 34.3 ft³/s (0.971 m³/s), 24,850 acre-ft/yr (30.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,840 ft³/s (80.4 m³/s) Mar. 3 (gage height, 10.69 ft or 3.258 m); no flow for many days.

Period of record: Maximum discharge, 12,600 ft³/s (357 m³/s) Dec. 23, 1955 (gage height, 21.0 ft or 6.40 m, present site and datum, from floodmarks), from rating curve extended above 5,400 ft³/s (153 m³/s) on basis of slope-area measurement of maximum flow; no flow at times.

REMARKS.--Records good. Flow regulated by Pacheco Lake 9 mi (14 km) upstream, capacity, 6,150 acre-ft (7.58 hm³). Small diversions above station for irrigation.

DISCHARGE, IN CURTIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	2.6	62	52	10	280	441	7.2	1.2	0	13	12
2	4.2	2.6	51	38	11	1,650	862	6.2	1.1	4.1	13	11
3	3.5	2.6	21	28	9.7	1,770	304	5.6	.85	9.3	13	11
4	2.8	2.8	12	114	8.4	581	179	5.3	.52	10	13	11
5	2.8	2.9	7.6	152	7.6	265	111	5.0	.14	11	13	11
6	2.6	3.7	5.6	167	6.9	162	91	5.9	.01	12	13	11
7	4.7	3.7	4.2	438	5.9	135	73	5.0	.01	13	13	11
8	5.6	4.0	3.5	306	4.7	154	60	4.7	0	13	13	12
9	5.0	3.7	3.1	137	4.4	99	61	4.7	0	15	13	11
10	4.2	3.3	2.8	82	4.2	73	55	4.4	0	14	13	11
11	2.9	3.5	2.9	57	4.0	57	44	4.4	0	14	13	11
12	2.8	6.2	2.6	52	4.2	52	37	4.2	0	14	13	11
13	2.6	6.2	2.6	41	4.2	44	32	3.7	0	13	13	11
14	2.6	6.2	2.3	33	4.4	38	26	3.5	0	13	13	10
15	2.4	6.5	2.1	27	4.2	33	22	3.3	0	19	13	9.7
16	2.4	6.9	2.1	22	4.0	28	20	2.9	0	21	13	9.6
17	2.4	8.4	2.1	22	4.4	26	17	2.8	0	22	13	8.9
18	2.4	28	2.0	21	5.3	24	17	2.8	0	22	13	8.6
19	2.4	17	2.0	22	5.0	33	17	2.6	0	18	13	8.5
20	2.4	13	1.9	22	4.4	28	15	2.4	0	17	13	8.1
21	2.4	9.7	2.1	22	4.2	22	14	2.4	0	17	13	7.8
22	2.6	8.4	2.0	28	4.0	19	13	2.3	0	17	13	7.8
23	3.1	7.2	1.9	27	4.2	16	13	2.3	0	14	13	7.8
24	3.1	6.5	4.0	22	4.0	14	15	2.0	0	13	13	7.6
25	3.1	6.2	4.7	19	3.5	14	14	2.0	0	12	12	7.1
26	2.9	5.6	4.4	19	3.3	17	12	1.9	0	12	13	7.4
27	2.8	4.7	438	20	3.1	19	10	1.8	0	12	13	5.5
28	2.8	4.4	367	15	3.3	230	9.7	1.6	0	12	13	3.3
29	2.6	4.4	142	12	-----	162	8.8	1.5	0	12	12	2.6
30	2.6	4.7	91	11	-----	210	8.0	1.5	0	12	12	2.2
31	2.6	-----	56	10	-----	189	-----	1.4	-----	12	13	-----
TOTAL	95.7	195.6	1,308.5	2,038	146.5	6,444	2,601.5	107.3	3.83	419.4	400	267.5
MEAN	3.09	6.52	42.2	65.7	5.23	208	86.7	3.46	.13	13.5	12.9	8.92
MAX	5.6	28	438	438	11	1,770	862	7.2	1.2	22	13	12
MIN	2.4	2.6	1.9	10	3.1	14	8.0	1.4	0	0	12	2.2
AC-FT	190	384	2,600	4,040	291	12,780	5,160	213	7.6	832	793	531

CAL YR 1973 TOTAL 25,152.55 MEAN 68.9 MAX 2,290 MIN 0 AC-FT 49,890
 WTR YR 1974 TOTAL 14,027.83 MEAN 38.4 MAX 1,770 MIN 0 AC-FT 27,820

11153470 LLAGAS CREEK ABOVE CHESBRO RESERVOIR, NEAR MORGAN HILL, CALIF.

LOCATION.--Lat 37°08'54", long 121°46'02", in Pueblo Lands of San Jose Grant, Santa Clara County, on left bank 200 ft (61 m) upstream from small left-bank tributary, 5.7 mi (9.2 km) upstream from Chesbro Dam, and 6.4 mi (10.3 km) west of Morgan Hill.

DRAINAGE AREA.--9.61 mi² (24.89 km²).

PERIOD OF RECORD.--October 1971 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 670 ft (204 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 642 ft³/s (18.2 m³/s) Mar. 1 (gage height, 5.57 ft or 1.698 m), from rating curve extended as explained below; no flow many days.
Period of record: Maximum discharge, 795 ft³/s (22.5 m³/s) Jan. 16, 1973 (gage height, 6.18 ft or 1.884 m), from rating curve extended above 180 ft³/s (5.10 m³/s) on basis of slope-area measurement at gage height 5.57 ft (1.698 m); no flow many days in each year.

REMARKS.--Records fair. No regulation or diversion above station. Records of water temperatures and sediment discharge for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.27	172	12	9.3	465	68	7.5	3.7	1.4	.21	.04
2	0	.33	35	9.9	8.7	246	58	8.1	3.7	1.2	.16	.04
3	0	.33	21	59	8.1	147	49	7.5	3.7	1.1	.18	.04
4	0	.33	16	69	8.7	92	42	7.5	3.3	1.0	.13	0
5	0	.36	12	43	8.7	66	36	7.0	3.3	.97	.12	0
6	0	1.8	9.9	58	8.1	50	32	7.0	3.0	1.0	.11	0
7	.15	.98	8.1	56	7.5	46	30	6.5	2.8	1.0	.08	0
8	.54	.63	7.0	47	7.5	39	26	7.0	2.8	1.1	.10	0
9	.46	.54	6.5	40	7.0	33	26	7.5	2.5	1.5	.09	0
10	.14	.54	5.6	33	7.0	31	20	7.0	2.5	1.3	.10	0
11	.01	1.3	6.0	30	6.5	28	15	6.5	2.5	1.1	.11	0
12	0	14	5.6	27	7.0	28	14	6.5	2.5	.84	.10	0
13	0	4.8	6.5	25	6.5	25	17	6.5	2.8	.78	.08	0
14	.02	6.0	6.0	22	6.0	22	16	6.0	2.8	.71	.08	0
15	0	3.0	5.2	19	6.0	21	15	6.0	2.8	.66	.08	0
16	0	6.0	5.2	35	5.6	19	14	6.0	2.8	.66	.08	0
17	0	46	4.8	68	5.6	17	14	6.0	2.5	.67	.08	0
18	0	21	5.2	47	5.2	16	14	6.0	2.2	.64	.06	0
19	0	6.5	4.8	39	7.0	15	14	6.0	2.8	.57	.06	0
20	0	4.0	4.4	33	5.6	14	14	5.6	2.5	.48	.04	0
21	.05	3.0	6.5	30	5.2	14	12	5.6	2.2	.44	.03	0
22	.63	2.5	8.7	26	5.2	14	11	5.2	2.0	.32	.01	0
23	.98	2.2	6.5	22	4.8	13	11	5.2	2.0	.29	0	0
24	.39	2.0	6.5	19	4.8	12	14	4.8	2.0	.22	.03	0
25	.27	1.8	6.0	17	4.4	12	9.9	4.4	2.0	.20	0	0
26	.22	1.6	6.5	15	4.4	12	9.3	4.0	1.8	.17	0	0
27	.18	1.4	14	14	4.4	19	8.7	4.4	1.8	.21	0	0
28	.22	1.3	14	13	24	61	8.1	4.4	1.5	.23	.02	0
29	.18	1.3	12	11	-----	33	7.5	4.4	1.3	.27	.03	0
30	.22	69	11	11	-----	88	7.5	4.0	1.3	.26	.05	0
31	.22	-----	11	9.9	-----	56	-----	3.7	-----	.26	.05	-----
TOTAL	4.88	204.41	449.5	959.8	198.8	1,754	633.0	183.8	75.4	21.55	2.27	.12
MEAN	.16	6.83	14.5	31.0	7.10	56.6	21.1	5.93	2.51	.70	.073	.004
MAX	.98	69	172	69	24	465	68	8.1	3.7	1.5	.21	.04
MIN	0	.27	4.4	9.9	4.4	12	7.5	3.7	1.3	.17	0	0
AC-FT	9.7	406	892	1,900	394	3,480	1,260	365	150	43	4.5	.2

CAL YR 1973 TOTAL 5,841.94 MEAN 16.0 MAX 333 MIN 0 AC-FT 11,590
WTR YR 1974 TOTAL 4,487.93 MEAN 12.3 MAX 465 MIN 0 AC-FT 8,900

PEAK DISCHARGE (BASE, 200 FT³/S).--Dec. 1 (0015) 512 ft³/s (5.05 ft); Mar. 1 (0545) 642 ft³/s (5.57 ft).

RESERVOIRS IN PAJARO RIVER BASIN, CALIF.

11153480 CHESBRO RESERVOIR.--Lat 37°07'00", long 121°41'34", near southwest boundary of Ojo de Agua de la Coche Grant, Santa Clara County, at left end of dam on Llagas Creek, and 2.5 mi (4.0 km) west of Morgan Hill. Drainage area, 19.3 mi² (50.0 km²). Period of record, December 1955 to current year. Monthly contents prior to October 1959 published in WSP 1735. Nonrecording gage read once daily. Datum of gage is at mean sea level (levels by South Santa Clara Valley Water Conservation District). Extremes for current year: Maximum contents observed, 8,160 acre-ft (10.1 hm³) Mar. 29 (elevation 525.26 ft or 160.099 m); no contents Nov. 2. Extremes for period of record: Maximum contents observed, 8,220 acre-ft (10.1 hm³) Feb. 10, 1973 (elevation, 525.5 ft or 160.17 m); maximum elevation, 527.4 ft (160.75 m) Feb. 24, 1969; no contents at times in 1957, 1960-62, 1973.

Reservoir is formed by earth- and rockfill dam completed in 1955. Capacity, 8,090 acre-ft (9.97 hm³) between elevations 465 ft (141.7 m), elevation of outlet gates, and 525 ft (160.0 m), crest of spillway. Reservoir is used for flood control and water released down Llagas Creek for irrigation. Record of contents furnished by Santa Clara Valley Water District.

11154020 UVAS RESERVOIR.--Lat 37°04'02", long 121°41'25", in Las Uvas Grant, Santa Clara County, at center of dam on Uvas Creek, and 4.8 mi (7.7 km) southwest of Morgan Hill. Drainage area, 30.4 mi² (78.7 km²). Period of record, December 1957 to current year. Monthly contents prior to October 1959 published in WSP 1735. Nonrecording gage read once daily. Datum of gage is at mean sea level (levels by South Santa Clara Valley Water Conservation District). Extremes for current year: Maximum contents observed, 10,530 acre-ft (13.0 hm³) Mar. 30 (elevation, 488.97 ft or 149.038 m); minimum observed, 646 acre-ft (797,000 m³) Nov. 11 (elevation, 19.1 ft or 5.82 m). Extremes for period of record: Maximum contents observed, 11,030 acre-ft (13.6 hm³) Mar. 16, 1967 (elevation, 490.5 ft or 149.50 m); no contents May 18 to Nov. 30, 1961.

Reservoir is formed by earth- and rockfill dam completed in 1957. Capacity, 10,000 acre-ft (12.3 hm³) between elevations 410 ft (125.0 m), hydraulic gate valves, and 487.5 ft (148.59 m), crest of spillway. Water released down Uvas Creek for irrigation; at times diverted into Llagas Creek 3.6 mi (5.8 km) below Chesbro Reservoir for ground-water recharge by percolation. Record of contents furnished by Santa Clara Valley Water District.

MONTHEND CONTENTS, IN ACRE-FEET (INCLUDING MOMENTARY
STORAGE ABOVE SPILLWAY CREST), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Chesbro Reservoir	Uvas Reservoir
Sept. 30, 1973..	1,420	2,060
Oct. 31.....	40	1,020
Nov. 30.....	746	2,590
Dec. 31.....	1,560	3,830
Jan. 31, 1974...	4,240	8,140
Feb. 28.....	5,300	9,910
Mar. 31.....	8,140	10,310
Apr. 30.....	8,050	10,070
May 31.....	7,760	9,800
June 30.....	7,220	8,730
July 31.....	6,530	6,980
Aug. 31.....	5,350	5,450
Sept. 30.....	3,860	4,150

NOTE.--Contents at 0800 on first day of following month.

PAJARO RIVER BASIN

11153700 PAJARO RIVER NEAR GILROY, CALIF.

LOCATION.--Lat 36°56'54", long 121°30'40", on boundary between Las Animas and Llano del Tequisquita Grants, Santa Clara County, on right bank 45 ft (14 m) upstream from bridge on State Highway 25, 0.9 mi (1.4 km) downstream from Llagas Creek, and 4.7 mi (7.6 km) southeast of Gilroy.

DRAINAGE AREA.--399 mi² (1,033 km²).

PERIOD OF RECORD.--March 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 123.88 ft (37.759 m) above mean sea level (levels by Corps of Engineers). Prior to Nov. 17, 1971, at site 45 ft (14 m) downstream at same datum.

AVERAGE DISCHARGE.--15 years, 58.1 ft³/s (1.645 m³/s), 42,090 acre-ft/yr (51.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,460 ft³/s (98.0 m³/s) Mar. 3 (gage height, 9.98 ft or 3.042 m); minimum daily, 1.1 ft³/s (0.031 m³/s) Oct. 12, 13.
Period of record: Maximum discharge, 12,900 ft³/s (365 m³/s) Jan. 25, 1969 (gage height, 14.63 ft or 4.459 m), from rating curve extended above 4,800 ft³/s (136 m³/s); no flow many days in 1961-62, 1971.

REMARKS.--Records fair. Flow regulated by Pacheco Lake, capacity, 6,150 acre-ft (7.58 hm³), Chesbro Reservoir 21 mi (34 km) upstream (see sta 11153480) and San Felipe Lake. Many diversions above station for irrigation.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	1.3	80	130	34	151	303	38	18	17	8.5	6.1
2	4.3	1.4	93	97	31	630	545	35	17	15	8.5	4.9
3	3.2	1.3	25	70	29	2,330	616	35	17	13	8.5	6.8
4	2.2	1.3	14	310	28	1,360	492	33	15	11	7.8	4.6
5	2.0	1.4	12	270	27	849	398	33	15	12	6.8	4.5
6	1.7	2.2	11	390	25	554	327	32	15	11	5.3	4.3
7	2.7	2.2	8.2	530	23	412	260	31	15	11	4.5	3.5
8	2.7	2.2	6.8	740	22	345	200	29	14	13	6.5	3.0
9	2.0	2.0	6.5	520	21	280	166	28	13	14	8.3	3.2
10	1.6	2.2	6.2	390	20	237	146	26	13	9.5	8.9	3.8
11	1.3	2.5	6.5	230	15	196	130	25	13	7.8	9.8	5.1
12	1.1	7.8	7.2	150	14	164	118	26	15	9.5	8.3	4.3
13	1.1	4.5	6.5	120	14	141	107	26	15	9.2	9.6	3.4
14	1.2	11	6.5	100	14	123	92	25	17	11	10	3.0
15	1.4	3.6	6.5	85	14	110	81	24	16	11	9.0	8.1
16	1.3	3.2	6.5	73	14	90	74	24	18	14	7.4	8.5
17	1.3	6.2	6.5	141	14	75	68	22	16	15	6.4	9.0
18	1.2	40	6.2	115	13	69	63	25	15	12	5.4	6.3
19	1.2	9.2	6.2	75	15	65	63	26	15	10	5.5	7.6
20	1.2	4.1	6.5	65	15	65	61	23	13	11	6.1	8.8
21	1.3	3.2	8.2	59	14	62	56	23	13	9.9	6.2	10
22	1.6	2.7	20	54	13	57	52	23	14	9.5	8.0	11
23	2.0	2.4	15	54	13	53	53	22	13	11	6.6	7.6
24	1.9	2.0	12	54	13	48	52	21	11	10	8.1	7.4
25	2.0	1.7	11	51	13	45	51	20	11	10	7.8	11
26	2.0	1.7	11	47	13	48	50	19	11	11	7.0	9.6
27	2.0	1.4	49	44	13	50	47	17	11	11	5.6	4.3
28	2.0	1.3	229	42	13	229	43	17	13	8.5	6.7	3.7
29	2.4	1.3	232	40	-----	294	45	17	12	7.5	6.8	2.7
30	2.0	1.9	196	37	-----	323	42	17	15	9.2	8.7	2.5
31	1.5	-----	164	34	-----	339	-----	17	-----	9.2	6.1	-----
TOTAL	60.4	129.2	1,275.0	5,117	507	9,794	4,801	779	429	343.8	228.7	178.6
MEAN	1.95	4.31	41.1	165	18.1	316	160	25.1	14.3	11.1	7.38	5.95
MAX	5.0	40	232	740	34	2,330	616	38	18	17	10	11
MIN	1.1	1.3	6.2	34	13	45	42	17	11	7.5	4.5	2.5
AC-FT	120	256	2,530	10,150	1,010	19,430	9,520	1,550	851	682	454	354

CAL YR 1973 TOTAL 42,045.88 MEAN 115 MAX 2,750 MIN .69 AC-FT 83,400
WTR YR 1974 TOTAL 23,642.70 MEAN 64.8 MAX 2,330 MIN 1.1 AC-FT 46,900

11153790 UVAS CREEK AT SVEADAL, CALIF.

LOCATION.--Lat 37°05'25", long 121°48'13", in NE¼SE¼ sec.1, T.10 S., R.1 E., Santa Clara County, on right bank 0.4 mi (0.6 km) downstream from small left-bank tributary, 0.7 mi (1.1 km) upstream from Swanson Creek, 0.9 mi (1.4 km) northwest of Sveadal, and 8.7 mi (14.0 km) southwest of Morgan Hill.

DRAINAGE AREA.--2.88 mi² (7.46 km²).

PERIOD OF RECORD.--October 1972 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 1,120 ft (341 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 360 ft³/s (10.2 m³/s) Mar. 1 (gage height, 5.10 ft or 1.554 m, from outside high-water marks), from rating curve extended as explained below; minimum daily, 0.77 ft³/s (0.022 m³/s) Oct. 4, 5.

Period of record: Maximum discharge, 360 ft³/s (10.2 m³/s) Mar. 1, 1974 (gage height, 5.10 ft or 1.554 m, from outside high-water marks), from rating curve extended above 50 ft³/s (1.42 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.26 ft³/s (0.007 m³/s) Oct. 7, 1972.

REMARKS.--Records good. No regulation or diversion above station.

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.85	.90	53	8.1	9.9	152	55	7.1	3.6	2.3	1.7	1.2
2	.85	.95	14	7.5	9.3	86	53	6.9	3.6	2.3	1.6	1.2
3	.81	.95	13	8.2	9.0	52	40	6.6	3.5	2.3	1.6	1.2
4	.77	.95	10	11	8.4	43	35	5.6	3.5	2.2	1.6	1.1
5	.77	1.5	8.4	13	8.0	35	31	6.3	3.4	2.2	1.6	1.1
6	.81	4.0	7.2	19	8.0	31	28	6.1	3.2	2.2	1.5	1.1
7	1.3	1.7	6.3	21	7.9	31	25	5.7	3.2	2.2	1.5	1.1
8	1.1	1.3	5.9	22	7.9	26	24	5.5	3.1	2.5	1.5	1.1
9	1.0	1.3	5.4	19	7.8	22	22	5.5	3.1	2.7	1.5	1.1
10	.90	1.3	5.0	17	7.8	20	14	5.5	3.0	2.4	1.5	1.1
11	.90	4.4	5.2	15	7.7	19	16	5.4	3.0	2.3	1.5	1.1
12	.90	19	4.6	18	7.7	21	15	5.2	3.0	2.2	1.5	1.1
13	.90	7.3	5.9	16	7.4	18	14	5.0	3.0	2.2	1.5	1.2
14	.85	6.3	5.4	15	5.6	17	13	4.8	2.9	2.1	1.5	1.2
15	.95	3.4	4.8	14	5.9	16	13	4.8	2.9	2.1	1.4	1.2
16	.85	9.0	4.5	25	5.7	15	12	4.6	3.0	2.1	1.5	1.1
17	.85	28	4.6	51	5.5	14	11	4.6	2.9	2.0	1.4	1.1
18	.85	15	4.3	33	5.5	13	11	4.6	3.0	2.0	1.4	1.1
19	.85	7.4	4.2	29	7.4	12	10	4.5	3.0	1.9	1.4	1.1
20	.90	5.5	3.9	25	5.7	12	9.8	4.5	2.8	1.9	1.3	1.1
21	1.2	4.4	5.0	22	5.5	11	9.3	4.3	2.7	1.9	1.3	1.0
22	1.8	4.0	5.5	19	5.1	10	8.8	4.2	2.7	1.9	1.3	1.0
23	1.9	3.7	4.8	17	5.1	9.9	9.9	4.0	2.6	1.8	1.3	1.0
24	1.1	3.5	4.6	16	5.0	9.8	15	4.0	2.5	1.8	1.3	1.0
25	1.0	3.4	4.5	15	4.8	9.6	11	3.9	2.5	1.8	1.3	1.1
26	1.0	3.1	4.8	14	4.7	12	9.5	3.7	2.5	1.7	1.3	1.1
27	.95	3.0	13	12	4.7	23	8.8	3.7	2.4	1.7	1.3	1.1
28	.90	2.9	12	12	41	44	8.3	3.7	2.4	1.7	1.3	1.1
29	.90	2.9	10	11	-----	33	7.8	3.6	2.3	1.7	1.3	1.1
30	.90	24	9.0	10	-----	72	7.4	3.5	2.3	1.7	1.3	1.0
31	.90	-----	8.7	10	-----	42	-----	3.6	-----	1.6	1.2	-----
TOTAL	30.41	175.05	262.5	544.8	225.0	941.3	552.6	152.0	87.6	63.4	44.2	33.1
MEAN	.98	5.94	8.47	17.6	8.04	30.4	18.4	4.90	2.92	2.05	1.43	1.10
MAX	1.9	28	53	51	41	152	55	7.1	3.6	2.7	1.7	1.2
MIN	.77	.90	3.9	7.5	4.7	9.6	7.4	3.5	2.3	1.6	1.2	1.0
AC-FT	60	347	521	1,080	446	1,870	1,100	301	174	126	84	66
CAL YR 1973	TOTAL	3,288.47	MEAN	9.01	MAX	114	MIN	.72	AC-FT	6,520		
WTR YR 1974	TOTAL	3,111.96	MEAN	4.53	MAX	152	MIN	.77	AC-FT	6,170		

PEAK DISCHARGE (BASE, 80 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-30	2015	3.43	124	3-28	0230	3.02	80
3-1	0945	5.10	360	3-30	0400	3.40	120

PAJAPO RIVER BASIN

11153900 UVAS CREEK ABOVE UVAS RESERVOIR, NEAR MORGAN HILL, CALIF.

LOCATION.--Lat 37°05'34", long 121°43'02", in Las Uvas Grant, Santa Clara County, on left bank 0.6 mi (1.0 km) downstream from Little Uvas Creek, 0.9 mi (1.4 km) upstream from Hay Canyon, and 4.4 mi (7.1 km) southwest of Morgan Hill.

DRAINAGE AREA.--21.0 mi² (54.4 km²).

PERIOD OF RECORD.--July 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 486.47 ft (148.276 m) above mean sea level.

AVERAGE DISCHARGE.--13 years, 28.5 ft³/s (0.807 m³/s), 20,650 acre-ft/yr (25.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,380 ft³/s (95.7 m³/s) Mar. 1 (gage height, 9.88 ft or 3.011 m); minimum daily, 0.05 ft³/s (0.001 m³/s) Sept. 17.

Period of record: Maximum discharge, 6,580 ft³/s (186 m³/s) Oct. 13, 1962 (gage height, 13.18 ft or 4.017 m); no flow July 12 to Oct. 22, 1961, Oct. 1, 1964.

REMARKS.--Records fair. Minor regulation and diversion above station affects low flows. Records of water temperatures and sediment discharge for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.34	1.2	562	33	27	1,630	339	20	7.5	4.1	1.6	1.2
2	.43	1.2	86	27	25	559	227	20	8.2	3.8	1.9	1.3
3	.54	1.2	46	138	24	400	162	19	7.5	3.2	1.5	.86
4	.21	1.6	32	158	23	212	121	19	7.3	3.4	2.0	1.1
5	.65	1.6	25	87	22	149	99	19	6.7	2.9	2.0	.60
6	.66	15	21	127	21	111	83	18	6.7	3.1	1.5	.86
7	2.0	8.3	18	138	20	100	71	17	6.3	3.5	1.6	.79
8	2.4	3.0	16	110	19	81	63	16	6.7	3.4	1.2	.79
9	1.6	2.9	14	79	19	66	61	15	6.3	7.1	1.6	.94
10	1.4	2.9	13	62	18	57	53	15	6.5	4.8	1.6	.54
11	1.2	4.2	15	53	17	52	47	15	5.9	3.8	1.4	.94
12	1.1	103	13	53	18	61	44	14	5.7	3.6	1.3	.66
13	1.1	39	20	46	17	51	40	14	5.5	3.5	1.1	1.0
14	1.1	37	18	41	16	46	37	13	5.5	3.5	1.4	.48
15	.35	13	15	37	16	42	35	13	5.7	3.2	1.2	.86
16	.94	42	13	142	15	39	33	13	6.1	3.4	1.6	1.0
17	.94	283	13	339	15	37	31	13	5.7	3.4	1.2	.05
18	.94	87	12	152	14	35	31	13	6.3	2.7	1.2	.66
19	1.0	29	11	118	22	32	29	13	6.9	2.3	1.4	.21
20	1.0	19	11	93	17	30	28	12	6.3	2.7	.86	.72
21	1.4	15	19	75	15	28	26	11	5.5	2.6	1.3	.60
22	3.2	13	25	61	15	27	25	11	5.1	2.1	.79	.66
23	6.5	11	17	53	14	26	28	11	5.1	2.4	1.3	.86
24	2.6	9.9	15	47	14	25	42	10	5.0	2.7	1.1	.66
25	1.9	9.9	14	43	13	25	29	9.9	4.4	2.4	1.1	.60
26	1.8	4.4	15	39	13	27	27	9.7	4.4	2.4	1.1	.33
27	1.6	7.8	72	35	13	61	25	9.2	4.8	2.2	.86	.79
28	1.5	7.1	58	33	110	299	24	8.9	4.6	2.2	1.1	.72
29	1.2	6.9	42	31	-----	121	22	8.9	4.4	2.4	1.2	.86
30	1.1	211	35	29	-----	423	21	8.7	4.4	2.2	1.3	.86
31	1.1	-----	33	28	-----	189	-----	8.0	-----	2.2	.54	-----
TOTAL	44.36	1,002.9	1,309	2,507	592	5,041	1,903	417.3	177.0	97.2	41.05	22.50
MEAN	1.43	33.4	42.2	80.9	21.1	163	63.4	13.5	5.90	3.14	1.32	.75
MAX	6.5	283	552	339	110	1,630	339	20	8.2	7.1	2.0	1.3
MIN	.21	1.2	11	27	13	25	21	8.0	4.4	2.1	.54	.05
AC-FT	88	1,990	2,600	4,970	1,170	10,000	3,770	828	351	193	81	45

CAL YR 1973 TOTAL 17,027.47 MEAN 46.7 MAX 1,050 MIN .21 AC-FT 33,770
WTR YR 1974 TOTAL 13,154.31 MEAN 36.0 MAX 1,630 MIN .05 AC-FT 26,090

PEAK DISCHARGE (BASE, 800 FT ³ /S)						
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.
11-17	1500	7.34	1,190	3-28	0315	6.72
12-1	0230	8.14	1,760	3-30	0445	7.11
3-1	0630	9.88	3,380			

DISCHARGE
805
1,040

11154100 BODFISH CREEK NEAR GILROY, CALIF.

LOCATION.--Lat 37°00'15", long 121°39'58", in Las Animas Grant, Santa Clara County, on left bank just upstream from Whitehurst Creek, 2.7 mi (4.3 km) upstream from mouth, and 5.1 mi (8.2 km) west of west city limits of Gilroy.

DRAINAGE AREA.--7.40 mi² (19.17 km²).

PERIOD OF RECORD.--October 1959 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 360 ft (110 m), from topographic map.

AVERAGE DISCHARGE.--15 years, 3.93 ft³/s (0.111 m³/s), 2,850 acre-ft/yr (3.51 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 500 ft³/s (14.2 m³/s) Mar. 1 (gage height, 6.6 ft or 2.01 m, high-water mark in well); minimum daily, 0.04 ft³/s (0.001 m³/s) Oct. 4, 5.

Period of record: Maximum discharge, 1,240 ft³/s (35.1 m³/s) Jan. 31, 1963 (gage height, 8.25 ft or 2.515 m), from rating curve extended above 580 ft³/s (16.4 m³/s); no flow at times.

REMARKS.--Records good. No regulation or diversion above station.

REVISIONS (WATER YEARS).--WRD Calif. 1969: 1967(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	.15	41	13	6.1	230	150	5.5	1.8	1.0	.005	.56
2	.05	.15	15	8.5	5.0	150	110	5.5	1.8	.00	.00	.56
3	.05	.12	7.5	20	6.1	100	70	5.2	1.8	1.2	.00	.56
4	.04	.15	5.2	52	5.5	70	30	4.5	1.8	1.2	.00	.47
5	.04	.33	4.1	36	5.5	40	20	4.5	1.8	1.2	.00	.40
6	.05	3.6	3.3	42	5.2	28	20	4.5	1.8	1.2	.00	.40
7	.18	1.2	2.9	46	5.2	22	17	4.4	1.8	1.2	.00	.33
8	.27	.76	2.4	35	4.4	19	15	4.1	1.5	1.6	.00	.33
9	.12	.66	2.2	24	4.9	16	14	4.1	1.5	4.9	.00	.33
10	.10	1.3	2.0	18	4.7	13	14	3.5	1.5	2.6	.00	.33
11	.10	2.0	2.9	15	4.7	11	13	3.5	1.5	2.0	.00	.33
12	.08	30	2.4	13	4.4	13	12	3.6	1.5	1.8	.00	.40
13	.08	4.7	3.1	11	4.7	12	11	3.6	1.5	1.6	.00	.40
14	.08	4.9	2.6	9.2	4.4	4.5	4.6	3.5	1.5	1.3	.00	.40
15	.08	1.6	2.4	8.5	4.1	6.0	5.9	3.1	1.5	1.2	.00	.33
16	.10	6.8	2.2	15	3.9	6.9	8.5	3.1	1.5	1.2	.00	.33
17	.10	45	2.4	33	3.9	6.5	8.2	2.9	1.5	1.2	.00	.33
18	.10	17	2.2	25	3.4	6.0	5.2	2.9	1.5	1.0	.00	.33
19	.10	5.2	2.0	29	6.1	5.7	7.8	2.9	1.8	.00	.00	.33
20	.10	3.3	1.8	23	61	5.3	7.5	2.5	1.5	.00	.00	.33
21	.12	2.6	4.4	19	39	4.9	7.1	2.5	1.5	.76	.00	.33
22	.33	2.2	6.1	15	25	4.5	6.8	2.5	1.5	.66	.00	.33
23	.66	1.8	4.1	13	8.0	4.1	7.5	2.2	1.3	.66	.00	.33
24	.22	1.6	3.6	12	3.5	3.9	10	2.2	1.2	.56	.00	.33
25	.18	1.5	3.1	10	4.0	4.2	7.8	2.2	1.2	.60	.00	.27
26	.18	1.3	3.3	8.9	3.4	5.0	7.1	2.0	1.2	.66	.00	.22
27	.15	1.2	66	8.2	3.3	9.0	6.8	2.0	1.2	.56	.00	.22
28	.15	1.0	35	7.5	15	96	6.1	2.0	1.2	.66	.00	.22
29	.12	1.0	21	7.1	-----	31	5.4	2.0	1.0	.66	.00	.22
30	.12	2.6	14	6.8	-----	83	5.5	2.0	1.0	.66	.00	.18
31	.12	-----	12	6.5	-----	35	-----	1.8	-----	.66	.00	-----
TOTAL	4.22	145.72	282.2	590.2	256.5	1,052.5	632.2	102.9	43.9	37.40	17.01	19.43
MEAN	.14	4.86	9.10	19.0	9.16	34.0	21.1	3.32	1.46	1.20	.57	.35
MAX	.66	45	66	52	61	230	150	5.5	1.8	4.9	.00	.56
MIN	.04	.12	1.8	6.5	3.3	3.9	5.5	1.8	1.0	.56	.00	.18
AC-FT	8.4	289	560	1,170	509	2,090	1,250	204	87	74	35	21
CAL YR 1973	TOTAL	2,359.73	MEAN	6.47	MAX	124	MIN	.03	AC-FT	4,680		
WTR YR 1974	TOTAL	3,175.88	MEAN	8.70	MAX	230	MIN	.04	AC-FT	6,300		

DATE	TIME	PEAK DISCHARGE (BASE, 150 FT ³ /S)	DATE	TIME	DISCHARGE
11-12	1000	5.38	263	3-1	unknown
11-17	1600	4.84	182	4-1	unknown
2-20	0915	4.64	155		

NOTE.--No gage-height record Feb. 21 to Apr. 5.

11154200 UVAS CREEK NEAR GILROY, CALIF.

LOCATION.--Lat 36°59'32", long 121°34'21", in Las Animas Grant, Santa Clara County, on left bank 400 ft (122 m) upstream from county road bridge, 0.4 mi (0.6 km) southwest of Gilroy, and 3.9 mi (6.3 km) downstream from Bodfish Creek.

DRAINAGE AREA.--71.2 mi² (184.4 km²).

PERIOD OF RECORD.--January 1959 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 190 ft (58 m), from topographic map.

AVERAGE DISCHARGE.--15 years, 39.0 ft³/s (1.104 m³/s), 28,260 acre-ft/yr (34.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,430 ft³/s (68.8 m³/s) Mar. 1 (gage height, 9.22 ft or 2.810 m); no flow many days.

Period of record: Maximum discharge, 9,490 ft³/s (269 m³/s) Feb. 1, 1963 (gage height, 17.66 ft 5.383 m), from rating curve extended above 3,300 ft³/s (93.5 m³/s); no flow for many days in each year.

REMARKS.--Records fair. Flow regulated by Uvas Reservoir 10 mi (16 km) upstream (see sta 11154020). Diversion above station for irrigation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	2.8	415	24	37	1,400	607	30	.62	2.9	.02	0
2	1.6	2.8	195	33	34	1,430	778	28	.54	2.3	.02	0
3	1.5	2.8	88	25	31	1,530	529	24	.46	1.9	.25	1.2
4	1.4	2.7	56	200	29	817	322	23	.39	1.8	.27	2.4
5	1.3	3.0	40	300	27	504	250	22	.34	2.2	1.1	2.4
6	1.1	7.0	31	200	25	360	210	21	.29	2.3	6.9	2.2
7	2.0	5.2	24	260	23	302	186	20	.25	2.1	9.4	2.2
8	2.8	4.0	20	200	22	250	168	18	.22	1.5	5.3	2.1
9	2.5	3.9	17	170	21	207	146	16	.19	2.8	4.8	2.2
10	2.3	3.3	15	140	17	173	127	15	.16	2.9	6.6	2.0
11	2.3	3.0	15	120	13	149	101	13	.14	2.1	7.0	.42
12	2.3	37	15	100	13	149	77	10	.12	1.4	8.1	0
13	2.2	23	15	86	11	137	75	9.0	0	1.0	5.2	0
14	2.3	48	18	76	11	123	74	7.7	0	.71	.34	0
15	2.2	23	15	66	9.9	105	69	7.0	0	.55	0	0
16	2.5	26	13	84	9.5	102	63	6.1	0	.30	0	0
17	2.2	214	12	287	8.8	97	60	6.2	0	.09	0	0
18	2.0	239	11	204	8.4	96	58	5.2	0	.01	0	0
19	2.3	71	10	203	14	82	55	4.4	0	0	0	0
20	2.2	45	9.7	161	14	75	51	3.9	0	0	0	0
21	2.4	34	14	130	11	76	49	3.2	0	0	0	0
22	2.0	27	42	105	10	82	46	2.9	0	0	0	0
23	4.0	23	27	88	9.1	79	56	2.5	.20	0	0	0
24	3.4	19	22	75	8.3	75	90	2.1	1.1	0	0	0
25	3.2	17	19	66	7.5	75	70	1.8	7.0	0	0	0
26	3.1	16	18	59	7.3	80	56	1.6	5.8	0	0	0
27	2.9	14	219	53	7.1	112	47	1.3	4.6	0	0	0
28	2.8	13	181	48	8.2	605	40	1.1	3.9	0	0	0
29	2.8	13	95	45	-----	358	35	.96	3.3	0	0	0
30	2.7	14	32	41	-----	747	31	.83	3.6	0	0	0
31	2.6	-----	25	39	-----	459	-----	.72	-----	.03	0	-----
TOTAL	72.3	956.5	1,728.7	3,688	447.1	10,836	4,526	308.51	33.22	28.89	55.30	17.12
MEAN	2.33	31.9	55.8	119	16.0	350	151	9.95	1.11	.93	1.78	.57
MAX	4.0	239	415	300	37	1,530	778	30	7.0	2.9	9.4	2.4
MIN	1.1	2.7	9.7	24	7.1	75	31	.72	0	0	0	0
AC-FT	143	1,900	3,430	7,320	887	21,490	8,980	612	66	57	110	34

CAL YR 1973 TOTAL 25,425.73 MEAN 69.7 MAX 1,200 MIN 0 AC-FT 50,430
 WTR YR 1974 TOTAL 22,697.64 MEAN 62.2 MAX 1,530 MIN 0 AC-FT 45,020

11156500 SAN BENITO RIVER NEAR WILLOW CREEK SCHOOL, CALIF.

LOCATION.--Lat 36°36'34", long 121°12'07", in SE¼SE¼ sec.21, T.15 S., R.7 E., San Benito County, on left bank 0.9 mi (1.4 km) northwest of Willow Creek School, 1.3 mi (2.1 km) downstream from Willow Creek, and 10 mi (16 km) northwest of San Benito.

DRAINAGE AREA.--249 mi² (645 km²).

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 925.52 ft (282.098 m) above mean sea level, unadjusted. Prior to Jan. 28, 1948, and Nov. 11, 1955, to Sept. 30, 1965, at site 0.9 mi (1.4 km) downstream at different datum. Jan. 28, 1948, to Nov. 10, 1955, and Oct. 1, 1965, to Oct. 22, 1970, at present site at datum 2.37 ft (0.722 m) higher.

AVERAGE DISCHARGE.--35 years, 24.2 ft³/s (0.685 m³/s), 17,530 acre-ft/yr (21.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 249 ft³/s (7.05 m³/s) Jan. 8 (gage height, 5.54 ft or 1.689 m), from rating curve extended above 96 ft³/s (2.72 m³/s) on basis of slope-area measurement at gage height 12.94 ft (3.944 m), present datum; minimum daily, 1.5 ft³/s (0.042 m³/s) May 22-24.
Period of record: Maximum discharge, 8,210 ft³/s (232 m³/s) Apr. 3, 1958 (gage height, 8.35 ft or 2.545 m, site and datum then in use), from rating curve extended above 600 ft³/s (17.0 m³/s) on basis of slope-area measurement of maximum flow; no flow at times.
Flood of February 1938, reached a stage of about 9.0 ft (2.74 m) former datum, from floodmarks.

REMARKS.--Records poor. Flow regulated by Hernandez Reservoir 40 mi (64 km) upstream beginning in December 1961, capacity, 18,700 acre-ft (23.1 hm³). Small diversion above station for irrigation.

REVISIONS (WATER YEARS).--WSP 1565: 1948(M), 1949.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FER	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	12	57	8.5	8.2	5.5	23	4.6	37	51	37	49
2	24	7.1	60	7.3	7.9	19	142	4.6	39	51	37	49
3	26	7.0	45	7.9	7.6	37	65	4.9	39	51	36	48
4	26	6.5	43	35	7.3	33	44	4.9	41	50	36	48
5	26	6.4	43	47	6.7	19	32	5.2	43	50	36	47
6	26	6.4	36	41	6.4	14	22	5.2	44	50	41	45
7	29	6.7	21	97	6.4	12	19	4.6	46	51	41	42
8	36	6.9	18	211	6.1	51	16	4.1	47	49	41	39
9	59	7.0	16	92	5.8	35	19	3.6	49	51	41	37
10	61	7.0	14	64	5.8	22	17	3.2	50	51	41	35
11	63	7.3	12	54	5.5	18	16	2.8	51	49	42	33
12	66	9.6	9.4	47	5.5	15	16	2.4	52	48	41	30
13	67	8.6	9.4	51	5.8	11	15	3.0	53	47	42	20
14	66	12	8.2	33	5.8	9.4	11	2.2	53	45	42	18
15	63	16	7.9	22	5.5	8.2	8.8	2.1	53	43	43	15
16	54	16	7.6	19	5.5	7.6	7.0	2.1	54	43	42	13
17	51	17	7.3	19	5.2	7.0	5.2	2.1	56	43	41	11
18	48	20	7.0	19	4.9	7.3	5.2	2.1	57	42	42	9.8
19	48	22	7.0	17	5.2	6.7	7.0	2.1	58	42	42	9.7
20	48	21	6.7	17	5.5	6.7	5.2	1.7	56	40	43	9.7
21	48	19	7.3	17	4.9	6.7	4.6	1.6	55	39	43	9.1
22	48	18	16	17	5.2	8.2	4.6	1.5	54	39	43	8.5
23	57	18	12	16	4.9	8.2	4.9	1.5	54	39	43	8.5
24	53	18	8.2	15	4.6	8.2	11	1.5	54	39	43	7.6
25	47	17	7.3	14	4.3	9.4	11	2.6	54	39	44	6.7
26	39	16	7.3	13	4.3	13	7.0	17	52	38	43	6.4
27	31	13	10	10	4.1	13	7.0	19	52	39	43	6.1
28	27	14	19	9.4	4.1	45	5.2	19	52	38	44	5.5
29	21	13	10	9.4	-----	44	4.9	22	52	37	46	4.9
30	17	15	7.9	9.4	-----	21	4.3	32	51	39	48	4.3
31	13	-----	7.3	8.2	-----	19	-----	37	-----	38	49	-----
TOTAL	1,307	383.5	547.8	1,047.1	159.0	540.1	559.9	222.2	1,508	1,371	1,296	675.8
MEAN	42.2	12.8	17.7	33.8	5.68	17.4	18.7	7.17	50.3	44.2	41.8	22.5
MAX	67	22	60	211	8.2	51	142	37	58	51	49	49
MIN	13	6.4	6.7	7.3	4.1	5.5	4.3	1.5	37	37	36	4.3
AC-FT	2,590	761	1,090	2,080	315	1,070	1,110	461	2,990	2,720	2,570	1,340

CAL YR 1973 TOTAL 20,012.28 MEAN 54.8 MAX 790 MIN .74 AC-FT 39,690
WTR YR 1974 TOTAL 9,617.40 MEAN 26.3 MAX 211 MIN 1.5 AC-FT 19,080

NOTE.--No gage-height record Oct. 24 to Nov. 27.

11157500 TRES PINOS CREEK NEAR TRES PINOS, CALIF.

LOCATION.--Lat 36°45'13", long 121°17'03", in Santa Ana y Quien Sabe Grant, San Benito County, on right bank 3.5 mi (5.6 km) southeast of Tres Pinos, and 6.2 mi (10.0 km) upstream from mouth.

DRAINAGE AREA.--206 mi² (534 km²).

PERIOD OF RECORD.--October 1939 to current year. Yearly estimate only for 1940 and monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Concrete control since June 3, 1954 (control ineffective since 1955 due to gravel fill). Altitude of gage is 570 ft (174 m), from topographic map.

AVERAGE DISCHARGE (unadjusted).--35 years, 13.6 ft³/s (0.385 m³/s), 9,850 acre-ft/yr (12.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,520 ft³/s (43.0 m³/s) Jan. 7 (gage height, 7.20 ft or 2.195 m), from rating curve extended above 69 ft³/s (1.95 m³/s) on basis of slope-area measurement at gage height 9.45 ft (2.893 m); minimum daily, 2.5 ft³/s (0.071 m³/s) Sept. 29, 30.
Period of record: Maximum discharge, 8,060 ft³/s (228 m³/s) Apr. 4, 1941 (gage height, 7.75 ft or 2.362 m), from rating curve extended above 3,500 ft³/s (99.1 m³/s); maximum gage height, 9.88 ft (3.011 m) Feb. 11, 1973; no flow at times in 1952, 1957-61, 1965.
Flood in February 1938 reached at stage of about 9.0 ft (2.74 m), from floodmarks.

REMARKS.--Records poor. No regulation; diversions above station for irrigation can divert total flow in summer months, and since 1962, diversions into basin above station from San Benito River for percolation and irrigation.

REVISIONS.--WSP 1715: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	2.9	8.1	13	3.2	3.6	62	3.6	6.9	24	10	3.3
2	3.6	2.9	7.5	6.4	3.2	3.6	650	4.4	8.1	24	10	5.6
3	4.0	2.9	7.5	4.0	3.2	36	226	3.6	8.7	21	10	9.8
4	3.6	2.9	7.5	64	3.2	32	101	3.2	8.1	12	11	9.4
5	4.0	3.2	7.5	136	3.2	15	32	3.2	8.1	12	12	9.4
6	4.4	2.9	7.5	96	3.2	6.6	18	3.2	7.5	12	12	8.1
7	4.9	2.9	7.5	568	3.2	4.6	11	4.0	7.5	12	12	7.5
8	4.4	2.9	7.5	254	3.6	18	6.9	4.4	6.9	12	12	6.9
9	4.4	3.2	7.5	92	3.6	12	6.4	4.9	6.9	12	12	5.8
10	3.6	7.5	6.9	28	3.6	6.4	22	4.9	7.5	12	12	5.3
11	3.2	8.1	6.9	14	3.6	4.5	11	5.3	6.9	12	12	4.9
12	3.6	8.7	6.9	6.4	3.6	3.9	5.3	5.8	6.4	11	12	4.0
13	3.2	8.1	6.9	4.9	3.6	3.7	4.9	5.8	6.9	11	12	4.0
14	3.2	8.1	6.9	3.2	3.6	3.6	4.9	6.4	7.5	12	12	3.6
15	3.2	8.1	6.9	2.9	3.6	3.6	4.9	6.4	7.5	18	12	3.2
16	3.2	8.1	6.9	2.9	3.6	3.6	4.9	6.9	7.5	18	12	3.2
17	2.9	8.1	6.9	2.9	3.6	3.6	4.9	4.0	6.9	18	12	3.2
18	3.2	8.1	6.9	2.9	3.6	3.6	4.4	6.4	6.9	18	12	2.9
19	2.9	8.1	6.9	2.9	3.6	3.6	4.4	8.1	6.9	19	12	2.9
20	2.9	8.1	6.9	2.9	3.2	3.6	4.4	7.5	6.9	18	11	2.9
21	3.2	8.1	7.5	2.9	3.2	3.6	4.0	6.4	6.9	18	11	2.9
22	3.2	8.1	6.9	2.9	3.2	3.6	4.0	5.3	6.4	18	11	2.9
23	3.2	7.5	6.9	2.9	3.2	3.6	4.0	4.9	6.9	17	8.0	2.9
24	3.2	7.5	6.9	2.9	3.2	3.6	4.4	6.4	6.9	16	3.5	2.9
25	2.9	7.5	6.9	3.2	3.2	3.6	7.5	5.8	6.4	15	3.5	2.9
26	2.9	7.5	6.9	3.2	3.2	3.6	5.3	5.8	6.4	14	3.4	2.9
27	2.9	7.5	18	3.2	3.6	3.6	3.6	5.8	14	14	3.5	2.9
28	2.9	7.5	57	3.2	3.6	8.2	3.6	6.9	25	14	3.5	2.9
29	2.9	7.5	8.1	3.2	-----	17	3.6	8.7	25	14	3.5	2.5
30	2.9	7.5	39	3.2	-----	4.9	3.6	7.5	24	13	3.5	2.5
31	2.9	-----	15	3.2	-----	4.4	-----	6.4	-----	12	3.4	-----
TOTAL	105.1	192.0	323.1	1,341.3	95.2	234.8	1,232.9	171.9	274.4	473	289.8	134.1
MEAN	3.39	6.40	10.4	43.3	3.40	7.57	41.1	5.55	9.15	15.3	9.35	4.47
MAX	4.9	8.7	57	568	3.6	36	650	8.7	25	24	12	9.8
MIN	2.9	2.9	6.9	2.9	3.2	3.6	3.6	3.2	6.4	11	3.4	2.5
AC-FT	208	381	641	2,660	189	466	2,450	341	544	938	575	266
CAL YR 1973	TOTAL	12,115.66	MEAN	33.2	MAX	2,430	MIN	.62	AC-FT	24,030		
WTR YR 1974	TOTAL	4,867.60	MEAN	13.3	MAX	650	MIN	2.5	AC-FT	9,650		

PEAK DISCHARGE (BASE, 450 FT³/S).--Jan. 7 (1145) 1,520 ft³/s (7.20 ft); Apr. 2 (0045) 1,470 ft³/s (7.15 ft).

11158500 SAN BENITO RIVER NEAR HOLLISTER, CALIF.

LOCATION.--Lat 36°47'17", long 121°22'11", in SW¼ sec. 24, T.13 S., R.5 E., San Benito County, on left bank 1,500 ft (457 m) downstream from Bird Creek, 0.9 mi (1.4 km) downstream from Tres Pinos Creek, 2.7 mi (4.3 km) west of Tres Pinos, and 4.8 mi (7.7 km) southeast of Hollister.

DRAINAGE AREA.--586 mi² (1,518 km²).

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 359.3 ft (109.51 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--25 years, 29.1 ft³/s (0.824 m³/s), 21,080 acre-ft/yr (26.0 hm³/yr).

REMARKS.--Current year: maximum discharge, 3,979 ft³/s (112 m³/s) Apr. 2 (gage height, 11.17 ft or 3.405 m); minimum daily, 0.18 ft³/s (0.005 m³/s) May 22, 23.

Period of record: maximum discharge, 11,600 ft³/s (329 m³/s) Apr. 3, 1958 (gage height, 16.30 ft or 4.968 m), from rating curve extended above 1,200 ft³/s (34.0 m³/s) on basis of flood-routing study; no flow on 12/2/61.

REMARKS.--Records fair. Flow regulated by Hernandez Reservoir 67 mi (108 km) upstream beginning in December 1961, capacity, 18,766 acre-ft (23.1 hm³). Several small diversions above station for irrigation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	18	34	21	18	14	115	16	53	21	26	40
2	19	11	63	17	18	35	2,440	16	46	28	21	40
3	23	11	64	18	17	122	816	17	46	36	20	40
4	26	10	55	52	17	228	257	17	44	32	19	40
5	18	10	40	139	16	104	113	18	44	29	18	39
6	21	10	35	84	15	49	60	19	44	30	19	41
7	28	11	33	912	14	40	38	17	46	32	18	40
8	35	11	30	971	13	69	23	14	44	31	18	41
9	43	11	27	393	13	72	19	13	44	34	18	43
10	45	11	25	194	13	36	19	13	44	41	20	43
11	40	11	19	66	12	30	11	10	46	39	21	44
12	40	15	14	40	12	28	7.3	9.4	45	30	21	45
13	41	13	14	37	13	25	5.2	5.8	46	17	20	46
14	41	20	13	36	13	23	4.0	3.5	48	15	20	30
15	41	25	12	35	12	22	3.5	2.1	52	9.9	21	17
16	41	24	11	35	12	21	3.0	1.9	52	7.7	21	9.7
17	28	27	12	34	11	17	2.7	1.7	52	6.6	20	5.1
18	21	31	12	32	11	14	8.0	1.9	47	4.9	21	2.9
19	20	35	12	32	14	13	24	2.5	47	4.3	21	2.2
20	19	31	12	31	16	11	22	1.5	46	17	20	1.9
21	20	29	14	31	13	10	17	.90	47	34	19	1.7
22	20	28	20	30	12	9.9	16	.18	34	34	16	1.8
23	23	28	17	29	12	9.9	18	.18	26	34	15	1.8
24	23	27	17	28	12	10	39	7.3	22	34	26	1.7
25	23	25	14	27	11	10	32	14	21	34	32	1.5
26	22	24	13	25	11	12	27	20	21	28	32	1.1
27	21	20	28	24	11	11	24	29	21	28	32	1.2
28	21	21	49	23	10	34	21	39	21	29	33	1.3
29	21	21	31	22	-----	85	17	45	21	30	34	1.5
30	21	21	27	21	-----	59	15	52	20	30	35	1.3
31	19	-----	22	20	-----	49	-----	54	-----	30	39	-----
TOTAL	842	590	794	3,459	372	1,272.8	4,216.7	461.86	1,188	810.4	716	625.7
MEAN	27.2	19.7	25.6	112	13.3	41.1	141	14.9	39.6	26.1	23.1	20.9
MAX	45	35	68	971	18	228	2,440	54	53	41	39	46
MIN	18	10	11	17	10	9.9	2.7	.18	20	4.3	15	1.1
AC-FT	1,670	1,170	1,570	6,860	738	2,520	8,360	916	2,360	1,610	1,420	1,240

CAL YR 1973 TOTAL 28,172.59 MEAN 77.2 MAX 4,150 MIN .01 AC-FT 55,880
WTR YR 1974 TOTAL 15,348.46 MEAN 42.1 MAX 2,440 MIN .18 AC-FT 30,440

11158600 SAN BENITO RIVER AT STATE HIGHWAY 156, NEAR HOLLISTER, CALIF.

LOCATION.--Lat 36°51'07", long 121°25'44", in San Justo Grant, San Benito County, on right bank at downstream side of bridge on State Highway 156, and 1.6 mi (2.6 km) west of Hollister.

DRAINAGE AREA.--607 mi² (1,572 km²).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 260 ft (79 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 2,080 ft³/s (58.9 m³/s) Apr. 2 (gage height, 5.98 ft or 1.823 m); no flow many days.

Period of record: Maximum discharge, 8,030 ft³/s (227 m³/s) Feb. 11, 1973 (gage height, 9.18 ft or 2.798 m), from rating curve extended above 2,400 ft³/s (68.0 m³/s); no flow many days in each year.

REMARKS.--Records fair. Flow regulated by Hernandez Reservoir 73 mi (117 km) upstream, capacity, 18,700 acre-ft (23.1 hm³). Some small diversions above station for irrigation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.79	5.4	14	11	.01	5.3	65	0	0	2.1	6.5	19
2	.45	4.1	36	7.3	0	17	1,340	0	3.2	3.6	3.3	19
3	1.4	3.5	59	6.8	0	57	623	0	6.3	12	3.3	20
4	5.8	3.5	54	28	0	138	237	0	9.2	12	2.4	20
5	5.3	3.4	41	181	0	59	78	0	9.2	9.2	1.9	19
6	.18	3.5	26	122	0	28	32	0	7.3	9.9	2.4	18
7	7.9	3.2	23	583	.09	20	17	.01	8.5	11	2.6	18
8	13	1.4	19	979	2.4	35	11	0	7.3	11	2.8	17
9	19	.29	16	499	2.4	44	8.7	0	8.5	14	2.8	17
10	23	0	14	213	2.4	22	9.5	0	9.9	21	4.5	17
11	19	0	11	61	2.4	15	5.8	0	15	16	5.2	18
12	17	.01	5.3	30	2.6	12	2.7	0	17	12	6.3	17
13	19	.15	4.9	20	2.4	9.2	1.8	0	19	2.0	4.6	18
14	17	.69	4.5	15	3.2	7.9	1.1	0	20	0	3.6	12
15	17	6.3	4.1	9.9	2.6	7.3	.74	0	23	0	4.3	6.6
16	17	7.3	4.1	7.3	2.6	6.3	.51	0	22	0	5.2	3.0
17	14	9.9	4.1	6.3	2.2	4.9	.31	0	23	0	4.5	1.7
18	5.3	14	4.1	4.1	2.2	3.2	.30	0	24	0	5.1	.70
19	3.8	17	3.8	3.2	2.9	2.6	.26	0	23	0	6.0	.26
20	4.1	17	3.5	2.4	3.5	1.8	.17	0	22	0	5.4	1.7
21	3.8	15	4.1	2.2	3.5	.79	.08	0	17	.60	5.2	1.9
22	3.8	15	7.9	1.8	3.2	.45	.03	0	15	3.2	3.1	1.5
23	4.5	14	5.8	1.8	3.2	.21	.05	0	15	3.2	2.0	.18
24	4.9	13	5.8	1.4	2.9	.39	.10	0	12	4.1	5.3	2.0
25	4.9	11	5.3	1.1	2.6	.89	.07	0	13	7.3	13	2.6
26	4.1	11	4.1	.89	2.6	2.0	.03	0	9.9	7.9	13	2.4
27	5.8	9.9	11	.52	2.4	1.8	.02	0	4.6	9.2	14	2.6
28	8.5	9.1	31	.29	2.4	24	.01	0	3.2	6.8	15	2.4
29	7.3	7.4	24	.29	-----	50	0	0	2.1	8.5	16	1.6
30	6.8	7.9	14	.13	-----	44	0	0	1.8	11	17	.25
31	6.3	-----	13	.08	-----	36	-----	0	-----	11	19	-----
TOTAL	270.72	215.64	487.4	2,799.80	57.20	656.03	2,435.28	.01	371.0	208.60	205.3	280.89
MEAN	8.73	7.19	15.7	90.3	2.04	21.2	81.2	.0003	12.4	6.73	6.62	9.36
MAX	23	17	69	979	3.5	138	1,340	.01	24	21	19	20
MIN	.18	0	3.5	.08	0	.21	0	0	0	0	1.4	.18
AC-FT	537	428	967	5,550	113	1,300	4,830	.02	736	414	407	557
CAL YR 1973	TOTAL	19,885.29	MEAN	54.5	MAX	3,070	MIN	0	AC-FT	39,440		
WTR YR 1974	TOTAL	7,987.87	MEAN	21.9	MAX	1,340	MIN	0	AC-FT	15,840		

11158900 PESCADERO CREEK NEAR CHITTENDEN, CALIF.

LOCATION.--Lat 36°54'28", long 121°35'04", on west boundary of Juristac Grant, Santa Clara County, on left bank 0.2 mi (0.3 km) downstream from small left-bank tributary, 0.6 mi (1.0 km) upstream from mouth, and 1.2 mi (1.9 km) northwest of Chittenden.

DRAINAGE AREA.--10.2 mi² (26.4 km²).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder and rain gage. Datum of gage is 124.13 ft (37.835 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 294 ft³/s (8.33 m³/s) Apr. 1 (gage height, 6.64 ft or 2.024 m); minimum daily, 0.02 ft³/s (0.001 m³/s) Oct. 4, 5.

Period of record: Maximum discharge, 326 ft³/s (9.23 m³/s) Nov. 14, 1972 (gage height, 7.08 ft or 2.158 m), from rating curve extended above 150 ft³/s (4.25 m³/s); no flow at times.

REMARKS.--Records fair except those for period of no gage-height record, which are poor. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	.14	34	31	4.1	122	148	4.4	1.6	.88	.56	.58
2	.05	.17	13	20	4.0	129	120	4.4	1.5	.82	.56	.47
3	.03	.17	4.9	25	3.6	138	61	4.4	1.5	.82	.57	.60
4	.02	.17	2.8	87	3.2	74	41	4.3	1.4	.74	.58	.47
5	.02	.24	2.2	56	3.6	52	31	4.1	1.4	.96	.50	.42
6	.05	4.9	1.5	58	3.2	42	23	3.9	1.4	1.0	.47	.42
7	.24	1.5	1.1	65	3.2	33	18	3.8	1.3	1.0	.42	.37
8	.28	.60	1.1	52	3.2	28	15	3.7	1.3	1.0	.45	.38
9	.14	.43	.94	38	3.0	25	13	3.4	1.3	1.0	.40	.37
10	.10	.38	.80	30	2.8	20	12	3.3	1.2	4.0	.46	.37
11	.08	.54	1.3	25	2.5	17	11	3.2	1.2	2.9	.48	.45
12	.07	20	1.1	22	2.8	15	10	3.1	1.4	2.2	.48	.48
13	.06	2.0	1.1	13	2.7	13	9.3	3.0	1.6	1.6	.48	.48
14	.06	3.7	1.1	9.4	2.4	11	8.2	2.9	1.4	1.4	.54	.45
15	.07	1.1	.80	7.2	2.3	9.4	7.7	2.8	1.2	1.3	.51	.42
16	.07	17	.70	11	2.3	8.2	7.3	2.6	1.2	1.1	.48	.44
17	.07	39	.80	21	2.1	7.1	7.2	2.5	1.2	1.0	.48	.42
18	.07	32	.80	16	2.1	6.2	7.0	2.5	1.2	1.0	.48	.38
19	.07	5.6	.70	19	6.7	5.4	6.6	2.3	1.2	.96	.48	.38
20	.06	2.5	.60	16	2.6	4.9	6.4	2.3	1.2	.82	.48	.46
21	.07	2.8	6.4	13	2.2	4.3	6.0	2.3	1.3	.75	.48	.45
22	.14	1.5	23	9.6	2.2	3.7	5.7	2.1	1.2	.73	.48	.43
23	.48	1.1	4.9	9.7	1.8	3.7	5.4	2.1	1.2	.65	.42	.35
24	.28	.80	2.8	8.0	1.6	3.2	5.8	1.9	1.2	.58	.40	.31
25	.20	.70	2.2	7.2	1.6	3.7	9.4	1.8	1.0	.56	.42	.34
26	.17	.60	2.2	7.0	1.5	3.7	7.1	1.8	1.0	.48	.47	.34
27	.17	.48	108	5.7	1.5	4.9	5.9	1.7	.96	.53	.56	.31
28	.14	.43	59	5.1	2.4	93	5.4	1.6	.97	.56	.50	.28
29	.14	.43	37	4.6	-----	43	5.2	1.6	.97	.56	.56	.31
30	.12	.60	28	4.7	-----	75	4.7	1.6	.97	.56	.58	.29
31	.14	-----	24	4.0	-----	44	-----	1.6	-----	.56	.66	-----
TOTAL	3.71	141.58	368.84	700.2	77.2	1,042.4	623.3	87.0	37.47	33.02	15.39	12.22
MEAN	.12	4.72	11.9	22.6	2.76	33.6	20.8	2.81	1.25	1.07	.50	.41
MAX	.48	39	108	87	6.7	138	148	4.4	1.6	4.0	.66	.60
MIN	.02	.14	.60	4.0	1.5	3.2	4.7	1.6	.96	.48	.40	.28
AC-FT	7.4	281	732	1,390	153	2,070	1,240	173	74	65	31	24
(a)	1.58	6.21	4.30	2.96	1.72	6.25	2.67	0	.03	.52	0	0

CAL YR 1973 TOTAL 2,721.58 MEAN 7.46 MAX 127 MIN .02 AC-FT 5,400
WTR YR 1974 TOTAL 3,142.33 MEAN 8.61 MAX 148 MIN .02 AC-FT 6,230

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	a Precipitation, in inches.
11-17	1830	4.95	130	3-3	0545	5.87	222	NOTE.--No gage-height record Apr. 8 to Sept. 6.
12-27	0600	5.53	188	3-28	0500	5.47	182	
1-4	0315	5.24	160	3-30	0615	5.20	156	
1-7	1315	4.55	89	4-1	1645	6.64	294	
3-1	1115	5.89	224					

11159000 PAJARO RIVER AT CHITTENDEN, CALIF.

LOCATION.--Lat 36°54'01", long 121°35'48", in Salsipuedes Grant, Santa Cruz County, on downstream side of right bank pier of bridge on State Highway 129, 0.6 mi (1.0 km) downstream from Pescadero Creek, 0.6 mi (1.0 km) southeast of Chittenden, and 2.3 mi (3.7 km) downstream from San Benito River.

DRAINAGE AREA.--1,186 mi² (3,072 km²).

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1954, published as "near Chittenden."

GAGE.--Water-stage recorder. Datum of gage is 82.28 ft (25.079 m) above mean sea level. Prior to May 13, 1949, nonrecording gage on former bridge 100 ft (30 m) downstream at same datum except that water-stage recorder, also 100 ft (30 m) downstream and at same datum, was used Dec. 20, 1946, to June 11, 1947, June 21 to Sept. 23, 1947, and Dec. 19, 1947, to May 6, 1948.

AVERAGE DISCHARGE.--35 years, 148 ft³/s (4.191 m), 107,200 acre-ft/yr (132 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 5,400 ft³/s (153 m³/s) Mar. 3 (gage height, 13.08 ft or 3.987 m); minimum daily, 2.6 ft³/s (0.074 m³/s) Oct. 14, 15, 18-21.

Period of record: Maximum discharge, 24,000 ft³/s (680 m³/s) Dec. 24, 1955 (gage height, 32.46 ft or 9.894 m), from rating curve extended above 8,300 ft³/s (235 m³/s) on basis of slope-conveyance study; maximum gage height, 33.11 ft (10.092 m) Apr. 3, 1958; no flow at times in July, August 1948.

Flood in February 1938, reached a stage of 31.3 ft (9.54 m), from floodmarks.

REMARKS.--Records fair except those for periods of no gage-height record, which are poor. Flow regulated by Hernandez Reservoir, capacity, 18,700 acre-ft (23.1 hm³), Pacheco Lake, capacity, 6,150 acre-ft (7.58 hm³), Chesbro Reservoir (see sta 11153480), Uvas Reservoir (see sta 11154020), and San Felipe Lake. Many diversions above station for irrigation. Records of chemical analyses for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	3.1	230	258	89	1,190	1,510	81	24	20	12	9.0
2	4.8	3.1	275	195	86	3,400	3,270	77	26	20	12	7.4
3	4.5	3.1	70	158	82	4,310	2,450	73	27	17	12	9.8
4	3.9	3.1	43	727	80	2,780	1,590	71	24	15	11	7.6
5	3.6	3.3	36	634	78	1,870	1,130	72	22	13	10	6.7
6	3.3	7.0	32	784	77	1,340	831	70	22	14	8.3	6.5
7	3.9	6.6	25	1,030	75	1,000	637	66	22	14	6.7	5.6
8	4.8	5.2	21	1,790	73	807	496	64	20	13	9.1	4.5
9	4.5	4.5	19	1,130	71	634	413	60	21	18	11	4.6
10	3.9	4.5	19	696	70	510	365	57	18	16	13	5.1
11	3.1	4.8	20	482	65	408	318	54	19	12	14	7.4
12	3.1	22	21	347	61	353	252	56	20	14	12	6.5
13	2.8	14	20	266	61	316	237	56	22	13	14	5.4
14	2.6	27	20	217	59	276	209	54	24	16	15	4.5
15	2.6	18	20	183	57	247	182	52	22	16	14	8.4
16	2.8	10	20	161	55	223	164	52	24	20	12	9.2
17	2.8	30	20	297	55	205	143	51	25	22	11	9.7
18	2.6	120	19	305	53	198	140	48	25	18	9.4	10
19	2.6	33	19	243	59	183	136	54	23	15	8.4	8.9
20	2.6	12	21	214	62	174	132	56	20	16	9.9	10
21	2.6	9.8	30	187	57	163	121	41	18	15	12	12
22	3.1	8.3	59	161	55	160	112	39	19	14	11	14
23	3.6	6.9	45	149	54	152	112	35	19	16	12	13
24	3.6	5.8	37	140	53	143	124	31	17	15	11	10
25	3.1	5.2	33	131	51	139	135	27	17	15	12	12
26	3.1	5.0	41	122	50	146	118	31	17	16	11	17
27	3.1	4.2	47	112	49	158	110	28	15	16	10	13
28	3.1	3.9	245	106	49	982	101	23	16	13	9.4	7.9
29	2.8	4.7	400	101	-----	707	95	23	17	11	9.4	7.1
30	2.8	20	324	95	-----	1,170	87	25	20	13	9.4	5.2
31	2.8	-----	260	92	-----	1,190	-----	26	-----	13	11	-----
TOTAL	103.0	408.1	2,491	11,513	1,786	25,534	15,728	1,553	625	479	343.0	258.1
MEAN	3.32	13.6	80.4	371	63.8	824	524	50.1	20.8	15.5	11.1	8.60
MAX	4.8	120	400	1,790	89	4,310	3,270	81	27	22	15	17
MIN	2.6	3.1	19	92	49	139	87	23	15	11	6.7	4.5
AC-Ft	204	809	4,940	22,845	3,540	50,650	31,200	3,080	1,240	950	680	512

CAL YR 1973 TOTAL 96,890.7 MEAN 265 MAX 6,610 MIN 2.6 AC-FT 192,200
 WTR YR 1974 TOTAL 60,821.2 MEAN 167 MAX 4,310 MIN 2.6 AC-FT 120,600

NOTE.--No gage-height record Nov. 14 to Dec. 28, Apr. 8 to May 22.

11159200 CORRALITOS CREEK AT FREEDOM, CALIF.

LOCATION.--Lat 36°56'22", long 121°46'10", in Los Corralitos Grant, Santa Cruz County, on right bank just upstream from Green Valley Road bridge, 0.2 mi (0.3 km) north of Freedom, and 2.3 mi (3.7 km) north of Watsonville.

DRAINAGE AREA.--27.8 mi² (72.0 km²).

PERIOD OF RECORD.--October 1956 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 80 ft (24 m), from topographic map.

AVERAGE DISCHARGE.--18 years, 15.0 ft³/s (0.425 m³/s), 10,870 acre-ft/yr (13.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,230 ft³/s (34.8 m³/s) Mar. 1 (gage height, 8.04 ft or 2.451 m); no flow many days.

Period of record: Maximum discharge, 2,680 (75.9 m³/s) Apr. 2, 1958 (gage height, 12.59 ft or 3.837 m); no flow at times.

Flood of Dec. 22, 1955, reached a stage of 15.6 ft (4.75 m), from floodmarks (discharge, 3,620 ft³/s or 103 m³/s on basis of contracted-opening measurement of maximum flow).

REMARKS.--Records good. No regulation; Watsonville Water Works can divert up to 8.0 ft³/s (0.23 m³/s) daily above station for municipal supply, domestic use, and irrigation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	326	51	24	841	542	16	4.0	.89	.59	.59
2	0	0	82	36	22	358	328	15	3.7	.89	.59	.51
3	0	0	51	63	20	350	166	15	3.7	.89	.59	.51
4	0	0	36	111	18	170	116	14	3.4	1.0	.51	.51
5	0	.05	26	84	16	110	93	14	3.0	1.0	.59	.51
6	0	82	19	94	15	83	78	14	2.7	1.0	.59	.59
7	0	15	16	107	14	76	65	13	2.7	1.0	.59	.68
8	0	7.6	14	96	13	65	59	12	2.5	1.6	.43	.59
9	0	4.0	12	72	12	52	60	11	2.3	2.0	.43	.59
10	0	2.5	10	58	12	43	53	11	2.1	8.4	.43	.59
11	0	6.1	12	55	10	39	46	9.7	1.9	4.8	.43	.59
12	0	119	11	54	10	46	42	9.3	1.9	2.3	.43	.78
13	0	48	14	49	12	41	38	8.8	2.1	1.4	.43	.78
14	0	61	16	42	9.7	31	34	8.4	2.0	1.1	.36	.62
15	0	30	11	34	8.8	28	30	8.0	1.4	1.0	.43	.51
16	0	74	9.3	95	8.8	24	28	7.6	1.3	.89	.43	.36
17	0	244	18	388	8.4	23	27	7.6	1.6	.78	.43	.15
18	0	105	17	161	7.6	21	27	8.0	2.3	.78	.43	.15
19	0	46	9.7	139	41	20	25	8.0	4.5	.68	.30	.20
20	0	31	8.4	104	22	18	23	6.8	1.9	.68	.36	.12
21	0	23	15	79	15	17	21	6.5	1.3	.68	.43	.15
22	0	19	28	64	15	15	20	6.1	1.1	.68	.43	.20
23	6.4	14	20	56	13	15	24	5.4	1.1	.78	.43	.24
24	.51	11	19	53	15	14	49	5.4	1.1	.59	.43	.24
25	0	8.0	16	46	13	16	32	4.8	1.1	.59	.43	.15
26	0	8.4	15	41	12	20	26	4.2	1.1	.59	.51	.24
27	0	4.5	159	34	13	51	23	4.0	1.0	.59	.59	.30
28	0	3.4	100	30	32	317	21	3.7	.89	.59	.59	.36
29	0	3.0	68	28	-----	111	19	4.2	.89	.59	.59	.20
30	0	55	55	26	-----	307	17	4.0	1.0	.51	.59	.06
31	0	-----	52	24	-----	128	-----	4.2	-----	.59	.59	-----
TOTAL	6.91	1,024.55	1,265.4	2,376	432.3	3,450	2,132	269.7	61.58	57.86	14.98	12.07
MEAN	.22	34.2	40.8	76.6	15.4	111	71.1	8.70	2.05	1.87	.48	.40
MAX	6.4	244	326	388	41	841	542	16	4.5	2.0	.59	.78
MIN	0	0	8.4	24	7.6	14	17	3.7	.89	.51	.30	.06
AC-F T	14	2,030	2,510	4,710	857	6,840	4,230	535	122	115	30	24

CAL YR 1973 TOTAL 10,925.53 MEAN 29.9 MAX 772 MIN 0 AC-F T 21,670
WTR YR 1974 TOTAL 11,103.35 MEAN 30.4 MAX 841 MIN 0 AC-F T 22,020

		PEAK DISCHARGE (BASED 600 FT ³ /S)					
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-17	1700	6.43	801	3-28	0415	5.99	695
12-1	0345	6.38	789	3-30	0600	5.79	643
1-17	0600	6.18	741	4-1	1600	7.00	945
3-1	0800	8.04	1,230				

APTOS CREEK BASIN

11159690 APTOS CREEK NEAR APTOS, CALIF.

LOCATION.--Lat 37°00'06", long 121°54'18", in Aptos Grant, Santa Cruz County, on right bank at downstream side of county road bridge, 0.4 mi (0.6 km) downstream from small right-bank tributary, and 1.7 mi (2.7 km) north of Aptos.

DRAINAGE AREA.--10.2 mi² (26.4 km²).

PERIOD OF RECORD.--October 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 160 ft (49 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 420 ft³/s (11.9 m³/s) Mar. 28 (gage height, 5.58 ft or 1.701 m); minimum daily, 1.0 ft³/s (0.028 m³/s) Oct. 1-6, 15-20, Nov. 2-4.

Period of record: Maximum discharge, 1,200 ft³/s (34.0 m³/s) Jan. 16, 1973 (gage height, 5.65 ft or 1.722 m), from rating curve extended above 340 ft³/s (9.63 m³/s); minimum daily, 0.36 ft³/s (0.010 m³/s) July 30 to Aug. 2, 1972.

REMARKS.--Records fair except those for period of no gage-height record, which are poor. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	1.1	27	12	10	169	170	11	5.6	3.8	3.4	2.4
2	1.0	1.0	27	9.3	8.0	69	110	10	5.6	3.8	3.2	2.1
3	1.0	1.0	14	15	8.0	72	60	10	5.4	3.4	3.2	2.2
4	1.0	1.0	10	40	8.4	46	48	8.9	5.4	2.8	3.2	2.2
5	1.0	2.4	2.3	35	8.3	41	41	9.7	4.9	3.0	3.2	2.2
6	1.0	1.0	6.7	47	7.4	36	35	9.7	4.9	3.0	3.2	2.2
7	2.5	4.7	5.9	37	7.3	47	30	8.9	4.9	3.0	3.0	2.2
8	2.1	2.7	5.4	30	7.0	35	28	8.9	4.9	5.9	3.0	2.2
9	1.6	2.1	4.9	21	6.7	26	26	8.9	4.7	19	3.0	2.2
10	1.3	1.0	4.7	17	6.7	22	24	8.6	4.7	8.3	3.0	2.2
11	1.2	2.0	4.0	14	6.4	21	22	8.3	4.7	5.9	3.0	2.2
12	1.1	37	4.2	13	6.7	31	21	7.3	4.4	5.1	3.0	2.2
13	1.1	11	4.1	12	6.4	22	19	7.9	4.2	4.7	3.0	2.2
14	1.1	16	5.4	11	6.1	19	18	7.6	4.2	4.7	3.0	2.2
15	1.0	5.9	4.9	10	5.9	17	17	7.6	4.0	4.4	3.0	2.2
16	1.0	30	4.4	40	5.4	15	16	7.3	4.0	4.2	3.0	2.2
17	1.0	69	4.4	210	5.4	14	15	7.0	4.0	4.2	3.0	2.2
18	1.0	35	4.2	70	5.4	13	15	7.3	4.0	4.0	2.8	2.2
19	1.0	12	3.8	67	10	11	15	7.3	4.7	4.0	2.8	2.2
20	1.0	7.9	3.6	41	6.7	10	14	6.7	4.2	3.8	2.8	2.2
21	1.2	6.1	5.4	30	6.4	8.7	14	6.7	4.2	3.6	2.7	2.2
22	2.7	5.4	7.3	23	6.1	8.0	13	6.4	4.0	3.6	2.7	2.1
23	3.2	4.7	6.1	20	5.6	7.4	14	6.4	4.0	3.6	2.7	2.1
24	1.7	4.2	5.4	18	5.6	7.2	18	6.4	4.0	3.6	2.7	2.1
25	1.3	3.8	4.9	16	5.4	8.1	15	6.1	4.0	3.6	2.7	2.1
26	1.2	3.6	5.4	14	5.1	13	14	5.9	3.8	3.4	2.7	2.1
27	1.2	3.2	45	13	5.1	78	13	5.9	3.8	3.4	2.7	2.1
28	1.1	3.0	27	12	8.0	150	12	5.6	3.8	3.4	2.7	2.1
29	1.1	2.8	17	11	-----	64	12	5.6	3.8	3.4	2.7	2.1
30	1.1	17	13	11	-----	140	11	5.6	3.8	3.4	2.7	2.1
31	1.1	-----	11	10	-----	66	-----	5.6	-----	3.4	2.6	-----
TOTAL	40.9	315.3	376.4	998.3	191.9	1,286.4	880	235.1	132.6	139.4	90.4	65.2
MEAN	1.32	10.5	12.1	32.2	6.85	41.5	29.3	7.58	4.42	4.50	2.92	2.17
MAX	3.2	68	97	210	10	169	170	11	5.6	19	3.4	2.4
MIN	1.0	1.0	3.6	9.3	5.1	7.2	11	5.6	3.8	2.8	2.6	2.1
AC-FT	81	625	747	1,980	381	2,550	1,750	466	263	276	179	129

CAL YR 1973 TOTAL 5,643.53 MEAN 15.5 MAX 349 MIN .75 AC-FT 11,190
 WTR YR 1974 TOTAL 4,751.90 MEAN 13.0 MAX 210 MIN 1.0 AC-FT 9,430

DATE	TIME	PEAK DISCHARGE (BASE, 100 FT ³ /S)	DATE	TIME	PEAK DISCHARGE (BASE, 100 FT ³ /S)
11-17	1645	2.56 192	3-1	1300	4.84 325
12-1	0400	2.42 161	3-28	unknown	5.58 420
1-3	2345	3.00 180	3-30	unknown	4.89 335
1-17	0545	5.38 390	4-1	unknown	4.87 330

NOTE.--No gage-height record Mar. 4 to Apr. 9.

11160000 SOQUEL CREEK AT SOQUEL, CALIF.

LOCATION.--Lat 36°59'29", long 121°57'17", in NE¼ sec.10, T.11 S., R.1 W., Santa Cruz County, on left bank 0.2 mi (0.3 km) upstream from highway bridge in town of Soquel, and 0.4 mi (0.6 km) downstream from Bates Creek.

DRAINAGE AREA.--40.2 mi² (104.1 km²).

PERIOD OF RECORD.--May 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 21.38 ft (6.517 m) above mean sea level.

AVERAGE DISCHARGE.--23 years, 44.7 ft³/s (1.266 m³/s), 32,390 acre-ft/yr (39.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,880 ft³/s (53.2 m³/s) Jan. 17 (gage height, 8.41 ft or 2.563 m); minimum daily, 1.5 ft³/s (0.042 m³/s) Oct. 5.
Period of record: Maximum discharge, 15,800 ft³/s (447 m³/s) Dec. 23, 1955 (gage height, 22.33 ft or 6.806 m), from rating curve extended above 2,900 ft³/s (82.1 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.10 ft³/s (0.003 m³/s) Aug. 12, 19, 1964.

REMARKS.--Records fair. No regulation; small diversion above station for irrigation. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	11	660	71	44	1,250	738	41	18	11	7.8	5.1
2	1.9	12	194	50	37	562	438	40	18	12	7.8	5.1
3	1.8	13	119	188	34	409	265	39	18	11	7.9	5.1
4	1.6	13	86	330	33	253	209	38	17	10	7.0	5.1
5	1.5	22	64	194	33	197	176	38	17	9.9	6.8	5.0
6	1.6	179	47	243	31	163	151	35	16	9.9	6.7	5.0
7	23	61	37	229	31	226	131	35	16	9.9	6.8	5.2
8	19	36	33	203	30	170	119	33	15	18	6.8	4.9
9	13	31	30	152	30	123	122	33	15	61	6.8	5.1
10	13	31	27	119	30	105	104	32	15	21	6.8	5.0
11	13	48	32	101	30	96	92	31	14	14	6.8	5.0
12	11	147	28	101	33	148	81	29	14	12	7.0	5.0
13	11	80	73	85	35	108	72	28	14	11	6.8	5.0
14	12	40	49	71	30	92	67	27	14	11	6.4	5.0
15	12	35	35	62	29	81	63	27	14	10	6.5	5.0
16	12	216	30	201	29	71	62	26	14	9.9	6.6	5.0
17	12	448	31	897	27	65	62	26	14	9.5	6.3	5.0
18	11	242	27	362	26	60	62	27	15	9.5	5.9	5.0
19	11	98	25	315	67	54	58	26	17	9.5	5.6	5.0
20	11	66	23	216	37	47	55	24	15	9.0	5.5	5.0
21	13	49	55	162	33	41	52	24	14	8.6	5.5	5.0
22	29	40	70	131	31	38	50	23	14	8.6	5.4	5.0
23	46	31	41	109	28	35	61	23	13	8.6	5.5	5.0
24	22	25	34	93	26	33	94	22	13	8.6	5.4	5.0
25	15	21	30	79	25	36	62	21	12	8.6	5.4	5.0
26	13	20	43	67	24	39	54	20	11	8.2	5.3	5.0
27	13	17	244	57	24	201	51	19	11	8.6	5.3	5.0
28	12	15	150	51	85	713	48	19	12	8.2	5.2	5.0
29	12	15	104	46	-----	282	45	19	11	8.2	5.2	5.0
30	11	221	76	43	-----	672	43	19	11	8.2	5.3	5.0
31	11	-----	69	41	-----	291	-----	18	-----	7.4	5.3	-----
TOTAL	391.3	2,283	2,566	5,069	952	6,661	3,687	862	432	370.9	193.4	150.6
MEAN	12.6	76.1	82.8	164	34.0	215	123	27.8	14.4	12.0	6.24	5.02
MAX	46	448	660	897	85	1,250	738	41	18	61	7.9	5.2
MIN	1.5	11	23	41	24	33	43	18	11	7.4	5.2	4.9
AC-FT	776	4,530	5,090	10,050	1,890	13,210	7,310	1,710	857	736	384	299
CAL YR 1973	TOTAL 28,022.5	MEAN 76.8	MAX 1,380	MIN 1.2	AC-FT 55,580							
WTR YR 1974	TOTAL 23,618.2	MEAN 64.7	MAX 1,250	MIN 1.5	AC-FT 46,850							

PEAK DISCHARGE (BASE, 1,000 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-17	1615	6.75	1,180	3-28	0330	7.99	1,690
11-30	2230	7.56	1,490	3-30	0515	7.42	1,440
1-17	0630	8.41	1,880	4-1	1515	6.48	1,060
3-1	1330	8.14	1,760				

11160020 SAN LORENZO RIVER NEAR BOULDER CREEK, CALIF.

LOCATION.--Lat 37°12'24", long 122°08'38", in NE¼SW¼ sec.25, T.8 S., R.3 W., Santa Cruz County, on right bank 22 ft (7 m) upstream from culvert on State Highway 9, 100 ft (30 m) upstream from small right-bank tributary, and 5.8 mi (9.3 km) north of town of Boulder Creek.

DRAINAGE AREA.--6.17 mi² (15.98 km²).

PERIOD OF RECORD.--July 1968 to current year.

GAGE.--Water-stage recorder. Concrete control since Sept. 1, 1971. Altitude of gage is 710 ft (216 m), from topographic map.

AVERAGE DISCHARGE.--6 years, 8.10 ft³/s (0.229 m³/s), 5,870 acre-ft/yr (7.24 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 263 ft³/s (7.45 m³/s) Mar. 1 (gage height, 5.39 ft or 1.643 m); minimum daily, 0.49 ft³/s (0.014 m³/s) Oct. 4.

Period of record: Maximum discharge, 672 ft³/s (19.0 m³/s) Jan. 16, 1973 (gage height, 9.10 ft or 2.774 m), from rating curve extended above 230 ft³/s (6.51 m³/s) on basis of computation of flow through culvert at gage height 8.48 ft (2.585 m); minimum daily, 0.18 ft³/s (0.005 m³/s) Sept. 1, 1972.

REMARKS.--Records fair. No regulation or diversion above station. Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD Calif. 1970: 1969(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.75	1.2	87	16	8.4	212	148	7.9	4.6	3.0	1.8	1.4
2	.75	1.2	17	12	7.3	129	110	8.0	4.5	2.8	1.8	1.4
3	.69	1.2	11	25	7.3	70	57	7.3	4.4	2.8	1.7	1.4
4	.49	1.2	8.0	53	7.3	42	48	7.1	4.3	2.7	1.7	1.4
5	.51	2.2	6.4	30	6.9	36	43	7.0	4.2	2.7	1.7	1.3
6	.58	7.0	5.4	25	6.4	28	37	7.0	4.1	2.6	1.7	1.3
7	1.4	3.2	4.7	25	6.4	31	34	6.9	4.0	2.6	1.7	1.3
8	1.0	2.0	4.3	22	6.0	26	31	6.9	3.9	3.5	1.6	1.3
9	.90	1.9	3.8	20	5.5	21	31	6.8	3.8	5.0	1.6	1.3
10	.78	2.2	3.8	18	6.0	19	27	6.6	3.8	4.0	1.6	1.3
11	.66	8.5	4.4	17	6.0	17	23	6.4	3.7	3.5	1.6	1.3
12	.66	31	3.6	20	6.0	17	20	6.2	3.7	3.0	1.6	1.3
13	.66	5.8	5.5	17	6.0	16	19	6.2	3.6	2.7	1.6	1.3
14	.66	4.5	4.2	15	5.5	13	17	6.1	3.6	2.6	1.5	1.3
15	.66	3.2	3.8	14	5.5	12	15	6.0	3.5	2.5	1.5	1.3
16	.66	15	3.6	30	5.1	11	15	5.8	3.6	2.4	1.5	1.3
17	.66	27	3.6	45	5.1	11	13	5.8	3.7	2.3	1.5	1.2
18	.66	17	3.5	30	5.1	10	13	5.6	4.0	2.2	1.5	1.2
19	.66	7.3	3.2	25	8.4	10	12	5.6	4.2	2.1	1.5	1.3
20	.66	5.6	3.2	20	6.4	9.4	12	5.4	3.8	2.1	1.5	1.3
21	.66	4.9	11	18	6.0	8.9	11	5.4	3.5	2.1	1.4	1.2
22	2.3	4.6	10	16	6.0	8.4	9.9	5.2	3.4	2.0	1.4	1.2
23	4.2	3.8	6.6	15	6.0	8.4	11	5.2	3.4	2.0	1.4	1.1
24	1.8	3.7	5.5	13	5.5	7.8	11	6.5	3.4	2.0	1.4	1.1
25	1.5	3.4	5.1	12	5.5	8.4	11	6.5	3.3	2.0	1.4	1.1
26	1.5	3.3	6.4	12	5.1	8.4	9.9	5.8	3.3	1.9	1.4	1.2
27	1.2	3.2	52	10	5.1	12	9.5	5.5	3.2	1.9	1.4	1.2
28	1.2	3.2	30	9.9	23	76	8.4	5.1	3.1	1.9	1.4	1.2
29	1.2	3.2	28	9.4	-----	37	8.1	5.0	3.1	1.8	1.4	1.2
30	.96	56	23	8.9	-----	94	8.1	4.8	3.0	1.8	1.4	1.1
31	1.1	-----	18	8.4	-----	42	-----	4.7	-----	1.8	1.4	-----
TOTAL	32.07	235.5	385.6	611.6	188.8	1,051.7	822.9	190.3	111.7	78.3	47.6	37.8
MEAN	1.03	7.85	12.4	19.7	6.76	33.9	27.4	6.14	3.72	2.53	1.54	1.26
MAX	4.2	54	87	53	23	212	148	8.0	4.6	5.0	1.8	1.4
MIN	.49	1.2	3.2	8.4	5.1	7.8	8.1	4.7	3.0	1.8	1.4	1.1
AC=FT	64	467	765	1,210	374	2,090	1,630	377	222	155	94	75

CAL YR 1973 TOTAL 4,965.07 MEAN 13.6 MAX 250 MIN .49 AC=FT 9,850
WTR YR 1974 TOTAL 3,793.87 MEAN 10.4 MAX 212 MIN .49 AC=FT 7,530

PEAK DISCHARGE (BASE, 70 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-12	0130	3.74	122	3-1	1445	5.39	263
11-17	1430	3.40	91	3-28	0245	4.44	183
12-1	0115	4.86	214	3-30	0330	4.37	177
12-27	0245	3.36	87	4-1	2000	5.12	238

11160300 ZAYANTE CREEK AT ZAYANTE, CALIF.

LOCATION.--Lat 37°05'10", long 122°02'45", in SE¼ sec.2, T.10 S., R.2 W., Santa Cruz County, on left bank at downstream side of bridge on Zayante Road in town of Zayante, 0.4 mi (0.6 km) upstream from Lompico Creek, 2.0 mi (3.2 km) east of Ben Lomond, and 3.2 mi (5.1 km) upstream from mouth.

DRAINAGE AREA.--11.1 mi² (28.7 km²).

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 390 ft (119 m), from topographic map.

AVERAGE DISCHARGE.--17 years, 11.6 ft³/s (0.329 m³/s), 8,400 acre-ft/yr (10.4 hm³/yr).

EXTREMES --Current year: Maximum discharge, 650 ft³/s (18.4 m³/s) Mar. 30 (gage height, 4.28 ft or 1.305 m); minimum daily, 0.51 ft³/s (0.014 m³/s) Oct. 1, 2.
Period of record: Maximum discharge, 3,700 ft³/s (105 m³/s) Apr. 2, 1958 (gage height, 7.70 ft or 2.347 m), from rating curve extended above 1,200 ft³/s (34.0 m³/s) on basis of slope-area measurement of maximum flow; no flow at times, caused by filling of pools upstream.

REMARKS.--Records good except those for period of no gage-height record, which are fair. No known regulation; only small diversion above station for individual use. Records of chemical analyses for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.51	1.3	86	15	14	393	192	11	4.0	2.3	1.4	.77
2	.51	1.3	21	13	13	136	129	10	4.0	2.2	1.2	.92
3	.57	1.2	14	65	12	71	71	10	3.8	2.1	1.2	.84
4	.57	1.3	11	58	12	45	54	9.7	3.8	2.1	1.2	.77
5	.57	3.2	9.9	40	11	36	43	9.4	3.6	2.0	1.2	.70
6	.57	15	9.0	36	11	31	37	9.1	3.5	1.8	1.1	.63
7	4.6	5.3	8.0	36	11	52	33	8.8	3.5	1.8	1.1	.70
8	3.5	3.5	7.5	29	10	37	30	8.4	3.2	3.0	1.1	.63
9	2.9	3.0	7.3	24	9.9	31	30	8.4	3.2	6.3	1.1	.63
10	2.0	3.8	6.8	22	9.6	27	26	8.1	3.2	3.6	1.2	.70
11	1.6	17	8.0	20	9.3	26	23	7.9	3.2	3.2	1.2	.70
12	1.5	50	7.0	21	11	29	21	7.5	3.2	2.9	1.1	.77
13	1.3	13	23	19	9.6	25	18	7.2	3.2	2.6	1.1	.84
14	.84	11	12	17	9.3	22	17	6.9	3.2	2.5	1.1	.70
15	.84	6.5	10	16	9.0	21	16	6.5	3.2	2.3	1.2	.92
16	.84	32	9.3	43	8.6	19	16	6.3	3.3	2.2	1.1	.77
17	.84	52	9.0	172	8.6	19	16	6.3	3.3	2.2	1.1	.70
18	.77	22	8.0	74	9.3	18	16	6.3	3.5	2.1	1.0	.77
19	.77	11	7.5	58	13	17	15	6.0	3.8	2.0	.92	.77
20	.77	8.6	7.3	42	9.3	16	14	5.8	3.2	1.8	.77	.77
21	1.5	7.3	19	33	9.0	15	13	5.5	2.9	1.7	.77	.84
22	5.0	6.8	15	28	8.6	15	13	5.5	2.8	1.6	.77	.92
23	5.7	6.0	12	25	8.0	14	15	5.3	2.6	1.6	.70	.77
24	2.0	5.5	10	22	8.0	14	24	5.3	2.6	1.6	.92	.77
25	1.5	5.3	9.6	20	8.0	14	17	5.1	2.6	1.6	.84	.77
26	1.4	5.1	17	19	7.8	16	14	4.9	2.6	1.5	.77	1.0
27	1.3	4.7	34	18	7.8	36	13	4.6	2.3	1.6	.77	.92
28	1.1	4.6	23	17	37	225	12	4.6	2.3	1.5	.77	1.0
29	1.1	4.4	20	16	-----	67	12	4.4	2.1	1.5	.84	.92
30	1.2	90	16	15	-----	266	11	4.2	2.3	1.5	.84	.84
31	1.2	-----	17	15	-----	81	-----	4.0	-----	1.4	.84	-----
TOTAL	49.37	401.7	474.2	1,048	304.7	1,834	961	213.0	94.0	68.1	31.22	23.75
MEAN	1.59	13.4	15.3	33.8	10.9	59.2	32.0	6.87	3.13	2.20	1.01	.79
MAX	5.7	90	86	172	37	393	192	11	4.0	6.3	1.4	1.0
MIN	.51	1.2	6.8	13	7.8	14	11	4.0	2.1	1.4	.70	.63
AC-FT	98	797	941	2,080	604	3,640	1,910	422	186	135	62	47
CAL YR 1973	TOTAL 7,525.84 MEAN 29.6 MAX 748 MIN .40 AC-FT 14,930											
WTR YR 1974	TOTAL 5,503.04 MEAN 15.1 MAX 393 MIN .51 AC-FT 10,920											

PEAK DISCHARGE (BASE, 450 FT ³ /S)					
DATE	TIME	G.H.	DISCHARGE	DATE	TIME
3-1	0530	3.88	462	3-30	0330
3-28	0200	4.22	620		

NOTE.--No gage-height record Apr. 11 to May 14.

DISCHARGE

650

11160500 SAN LORENZO RIVER AT BIG TREES, CALIF.

LOCATION.--Lat 37°02'40", long 122°04'17", in Zayante Grant, Santa Cruz County, on right bank 20 ft (6 m) upstream from bridge on Henry Cowell State Park Road, 200 ft (61 m) upstream from Shingle Mill Creek, 0.3 mi (0.5 km) downstream from Zayante Creek, 0.9 mi (1.4 km) northwest of Big Trees station on Southern Pacific Railroad, and 5.3 mi (8.5 km) northwest of Santa Cruz.

DRAINAGE AREA.--106 mi² (275 km²).

PERIOD OF RECORD.--October 1936 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 227.00 ft (69.190 m) above mean sea level (Santa Cruz County bench mark) Prior to Oct. 6, 1972, at site 1.3 mi (2.1 km) downstream at different datum.

AVERAGE DISCHARGE.--38 years, 138 ft³/s (3.908 m³/s), 99,980 acre-ft/yr (123 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 4,220 ft³/s (120 m³/s) Mar. 28 (gage height, 11.80 ft or 3.597 m); minimum daily, 14 ft³/s (0.40 m³/s) Oct. 5, 6.
Period of record: Maximum discharge, 30,400 ft³/s (861 m³/s) Dec. 23, 1955 (gage height, 22.55 ft or 6.873 m, site and datum then in use), from rating curve extended above 11,000 ft³/s (312 m³/s) on basis of slope-area measurement of maximum flow; minimum, 0.8 ft³/s (0.023 m³/s), regulated, June 25, 1939; minimum daily, 7.5 ft³/s (0.21 m³/s) July 1, 1939.

REMARKS.--Records good except those for Mar. 28 to Apr. 2, which are fair. Flow regulated by Loch Lomond Reservoir since 1961, capacity, 8,400 acre-ft (10.4 hm³). Many small diversions above station for domestic supply. Records of chemical analyses, water temperatures, and sediment discharge for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1315-B: 1938(M). WSP 1715: Drainage area.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	21	1,280	277	188	2,890	2,210	150	68	45	35	27
2	15	21	310	224	167	1,690	1,870	143	66	45	36	27
3	15	22	206	517	153	903	1,030	138	67	43	36	26
4	15	22	162	838	150	577	786	135	65	44	35	24
5	14	79	144	613	143	451	660	130	63	42	35	24
6	14	427	117	530	136	383	574	127	62	42	34	24
7	58	93	106	507	126	575	499	122	59	41	34	24
8	42	57	99	451	124	474	460	119	56	62	33	24
9	35	50	98	366	122	372	463	115	55	91	33	24
10	26	59	93	319	118	326	408	110	57	62	34	23
11	22	128	120	289	114	302	370	108	57	53	34	25
12	21	890	96	311	127	343	345	105	56	50	33	23
13	20	210	246	293	123	290	321	102	56	48	33	23
14	20	189	165	266	111	266	302	100	55	47	32	23
15	20	115	129	246	108	248	284	98	54	45	31	23
16	19	447	116	421	105	232	274	95	53	44	31	23
17	18	707	123	927	103	220	260	94	55	42	31	23
18	18	444	108	634	100	211	253	93	59	43	30	22
19	18	205	100	588	192	202	244	92	61	43	29	22
20	19	154	95	479	130	192	226	89	57	42	28	22
21	27	131	260	394	123	182	214	85	53	41	28	22
22	64	126	355	339	123	175	203	85	51	40	28	22
23	106	113	209	305	111	167	205	78	51	40	28	22
24	38	102	170	281	108	161	229	81	48	40	28	22
25	30	96	147	261	103	178	196	78	48	38	27	21
26	27	94	180	238	100	184	191	74	46	37	27	22
27	25	84	1,080	220	99	345	187	71	47	37	27	22
28	24	79	531	206	129	2,100	177	69	46	38	27	24
29	24	77	396	196	-----	797	168	71	45	38	26	23
30	22	304	332	186	-----	2,010	157	71	44	36	26	24
31	21	-----	285	181	-----	945	-----	70	-----	36	26	-----
TOTAL	853	5,546	7,858	11,903	3,536	18,391	13,766	3,098	1,660	1,395	955	700
MEAN	27.5	185	253	384	126	593	459	99.9	55.3	45.0	30.8	23.3
MAX	106	890	1,280	927	192	2,890	2,210	150	68	91	36	27
MIN	14	21	93	181	99	161	157	69	44	36	26	21
AC-FT	1,690	11,000	15,590	23,610	7,010	36,480	27,300	6,140	3,290	2,770	1,890	1,390
CAL YR 1973	TOTAL 87,322	MEAN 239	MAX 4,590	MIN 14	AC-FT 173,200							
WTR YR 1974	TOTAL 69,661	MEAN 191	MAX 2,890	MIN 14	AC-FT 138,200							

PEAK DISCHARGE (BASE, 1,400 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-12	0330	8.91	2,450	3-28	0330	11.80	4,220
12-1	0245	9.60	2,860	3-30	0615	10.74	3,540
12-27	0615	7.53	1,620	4-1	2030	10.26	3,260
3-1	0915	11.08	3,750				

11161570 MAJORS CREEK NEAR SANTA CRUZ, CALIF.

LOCATION.--Lat 36°59'55", long 122°07'13", in Refugio Grant, Santa Cruz County, on left bank 1.5 mi (2.4 km) downstream from small left-bank tributary, 1.7 mi (2.7 km) upstream from State Highway No. 1, and 5.5 mi (8.8 km) northwest of Santa Cruz Post Office.

DRAINAGE AREA.--3.77 mi² (9.76 km²).

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 348 ft (106 m) above mean sea level (levels by city of Santa Cruz).

AVERAGE DISCHARGE.--5 years, 5.03 ft³/s (0.142 m³/s), 3,640 acre-ft/yr (4.49 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 650 ft³/s (18.4 m³/s) Apr. 1 (gage height, 6.52 ft or 1.987 m), from rating curve extended as explained below; minimum daily, 1.2 ft³/s (0.034 m³/s) Oct. 1-6, 17-20, Oct. 24 to Nov. 5.
Period of record: Maximum discharge, 650 ft³/s (18.4 m³/s) Apr. 1, 1974 (gage height, 6.52 ft or 1.987 m), from rating curve extended above 160 ft³/s (4.53 m³/s) on basis of slope-area measurement at gage height 5.92 ft (1.804 m); minimum daily, 0.92 ft³/s (0.026 m³/s) Sept. 29 to Oct. 4, Oct. 9, 1972.

REMARKS.--Records poor. No regulation or diversion above station. Records of discharge include flow diverted through pipeline from pool for municipal supply of city of Santa Cruz as determined by spalling-meter readings furnished by city of Santa Cruz.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.2	6.6	8.7	6.6	15	280	5.9	3.2	2.6	2.5	2.0
2	1.2	1.2	4.7	8.0	6.6	19	69	5.7	3.2	2.6	2.5	2.0
3	1.2	1.2	4.1	9.5	6.6	16	36	5.6	3.1	2.6	2.4	2.0
4	1.2	1.2	3.9	34	6.5	8.9	26	5.4	3.1	2.6	2.4	2.0
5	1.2	1.2	3.6	12	6.2	7.1	23	5.3	3.1	2.6	2.3	2.0
6	1.2	4.3	3.4	10	5.7	6.3	21	5.2	3.0	2.6	2.3	2.0
7	2.2	7.8	3.3	10	5.3	19	19	5.0	3.0	2.6	2.3	2.0
8	1.7	3.6	3.2	10	5.0	11	17	4.9	3.0	5.9	2.3	2.0
9	1.5	4.2	3.1	9.0	4.8	7.6	15	4.8	3.0	17	2.3	2.0
10	1.4	5.3	3.0	8.6	4.5	6.5	14	4.6	3.0	6.2	2.2	2.0
11	1.3	11	3.2	8.0	4.5	6.0	13	4.5	2.9	5.5	2.2	2.0
12	1.3	41	3.2	8.2	4.8	6.2	12	4.4	2.9	5.0	2.2	2.0
13	1.3	14	5.4	8.2	4.5	5.6	12	4.3	2.9	4.6	2.1	2.0
14	1.3	10	4.6	8.0	4.2	5.0	11	4.2	2.9	4.2	2.1	2.0
15	1.3	5.3	3.9	7.6	4.2	4.9	10	4.1	2.9	4.0	2.1	2.0
16	1.3	14	3.6	9.2	4.1	4.5	9.8	4.0	2.8	3.8	2.1	2.0
17	1.2	30	3.9	35	4.1	4.2	9.5	4.0	2.8	3.6	2.1	2.0
18	1.2	15	3.6	25	4.1	4.0	9.0	3.9	2.8	3.5	2.1	2.0
19	1.2	7.5	3.3	24	18	4.0	8.7	3.8	2.8	3.4	2.0	2.0
20	1.2	5.7	3.9	12	6.3	3.9	8.3	3.8	2.8	3.2	2.0	2.0
21	1.4	4.8	6.3	11	6.3	3.8	8.1	3.7	2.8	3.1	2.0	2.0
22	2.0	5.3	7.6	9.6	6.3	3.8	7.8	3.6	2.7	3.0	2.0	2.0
23	1.7	4.6	6.0	8.4	5.1	3.6	7.6	3.6	2.7	3.0	2.0	2.0
24	1.2	4.4	5.2	7.5	4.5	3.5	7.3	3.5	2.7	2.9	2.0	2.0
25	1.2	4.5	5.0	7.2	4.1	4.0	7.1	3.5	2.7	2.8	2.0	2.0
26	1.2	4.2	18	6.8	4.0	4.7	6.9	3.4	2.7	2.8	2.0	2.0
27	1.2	3.8	72	6.6	3.9	39	6.7	3.4	2.7	2.7	2.0	2.0
28	1.2	3.8	39	6.6	4.1	165	6.5	3.3	2.7	2.7	2.0	2.0
29	1.2	3.8	21	6.6	-----	47	6.3	3.3	2.7	2.6	2.0	2.0
30	1.2	5.5	12	6.6	-----	61	6.1	3.3	2.6	2.6	2.0	2.0
31	1.2	-----	9.5	6.6	-----	43	-----	3.2	-----	2.5	2.0	-----
TOTAL	41.3	268.1	279.1	348.5	154.9	543.1	693.7	131.2	86.2	118.8	66.5	60.0
MEAN	1.33	8.94	9.00	11.2	5.53	17.5	23.1	4.23	2.87	3.83	2.15	2.00
MAX	2.2	43	72	35	18	165	280	5.9	3.2	17	2.5	2.0
MIN	1.2	1.2	3.0	6.6	3.9	3.5	6.1	3.2	2.6	2.5	2.0	2.0
ACFT	42	532	554	691	307	1,080	1,380	260	171	236	132	119

CAL YR 1973 TOTAL 2,768.5 MEAN 7.58 MAX 97 MIN 1.2 AC-FT 5,490

WTR YR 1974 TOTAL 2,791.4 MEAN 7.65 MAX 280 MIN 1.2 AC-FT 5,540

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-6	0600	4.99	103	3-27	2330	6.37	551
11-12	0130	5.21	147	3-30	0700	4.85	84
12-26	1100	5.66	268	4-1	0930	6.52	650
1-3	0130	4.93	93				

NOTE.--No gage-height record Dec. 13 to Feb. 7.

11161590 LAGUNA CREEK NEAR DAVENPORT, CALIF.

LOCATION.--Lat 37°01'32", long 122°07'48", in SW4 sec. 30, T.10 S., R.2 W., Santa Cruz County, on right bank 0.2 mi (0.3 km) upstream from Reggiardo Creek, 0.4 mi (0.6 km) downstream from small left-bank tributary, and 5.5 mi (5.8 km) northeast of Davenport.

DRAINAGE AREA.--3.07 mi² (7.95 km²).

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 680 ft (207 m), from topographic map.

AVERAGE DISCHARGE.--3 years, 6.12 ft³/s (0.173 m³/s), 4,430 acre-ft/yr (5.46 km³/yr).

EXTREMES.--Current year: Maximum discharge, 283 ft³/s (8.01 m³/s) Apr. 1 (gage height, 3.68 ft or 1.12 m), from rating curve extended above 120 ft³/s (3.40 m³/s); minimum daily, 0.28 ft³/s (0.008 m³/s) Apr. 1, 1974. Period of record: Maximum discharge, 283 ft³/s (8.01 m³/s) Apr. 1, 1974 (gage height, 3.68 ft or 1.12 m), from rating curve extended above 120 ft³/s (3.40 m³/s); minimum daily, 0.28 ft³/s (0.008 m³/s) Apr. 1, 1974.

REMARKS.--Records good except those for period of no gage-height record, which are fair. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	1.4	10	14	12	23	270	11	4.9	4.3	3.1	2.0
2	1.6	1.4	7.0	12	11	21	110	11	5.3	4.3	3.1	1.6
3	1.6	1.4	5.9	18	10	19	56	10	5.3	4.2	2.9	1.6
4	1.5	1.4	5.3	23	10	16	41	10	4.9	4.1	2.9	1.8
5	1.5	3.3	4.9	20	9.6	13	37	9.6	4.9	4.1	2.9	1.8
6	1.5	37	4.3	17	8.8	13	34	9.2	6.6	4.1	2.9	1.8
7	2.7	8.4	4.1	18	8.4	20	35	8.8	4.9	3.8	2.7	1.8
8	2.0	4.3	4.1	17	8.0	18	29	8.4	4.9	7.3	2.7	1.8
9	1.8	3.5	4.1	15	8.0	15	29	8.0	4.6	13	2.7	1.6
10	1.8	3.5	3.8	13	7.7	14	26	7.7	4.6	6.6	2.7	1.6
11	1.6	4.6	4.6	13	7.7	13	25	7.3	6.5	5.3	2.7	1.6
12	1.6	36	4.3	17	8.4	13	23	7.3	4.5	4.9	2.7	1.6
13	1.6	13	13	14	7.7	13	22	7.6	4.6	4.6	2.7	1.8
14	1.6	10	7.7	13	7.3	11	22	6.6	4.6	4.3	2.7	1.6
15	1.6	6.6	5.9	12	7.3	11	20	6.3	4.6	4.3	2.7	1.6
16	1.6	18	5.3	33	7.0	11	20	6.3	4.9	4.1	2.5	1.6
17	1.5	23	5.6	47	7.6	11	15	6.3	4.9	4.1	2.5	1.5
18	1.5	17	4.9	36	7.0	10	18	6.6	4.9	3.8	2.5	1.5
19	1.5	9.6	4.6	33	19	10	17	5.3	4.9	3.8	2.3	1.5
20	1.5	7.7	4.3	26	10	10	17	6.3	4.6	3.8	2.3	1.4
21	1.4	6.6	14	21	9.2	10	16	5.6	4.9	3.8	2.3	1.4
22	2.5	6.6	14	19	9.0	9.5	15	5.9	4.6	3.5	2.3	1.4
23	2.1	5.9	9.6	17	8.4	9.4	15	5.9	4.6	3.5	2.1	1.4
24	1.8	5.3	8.0	15	8.4	9.5	15	5.9	4.3	3.5	2.1	1.3
25	1.6	5.3	7.0	15	7.9	10	14	5.6	4.3	3.3	2.1	1.3
26	1.6	4.9	8.8	14	7.7	12	14	5.3	4.6	3.3	2.1	1.4
27	1.5	4.6	70	13	7.6	25	13	5.3	4.3	3.3	2.1	1.3
28	1.5	4.3	27	12	7.6	86	12	5.6	4.3	3.3	2.1	1.3
29	1.5	4.1	23	12	-----	35	12	5.6	4.6	3.1	2.0	1.3
30	1.4	4.3	18	11	-----	53	12	5.3	4.1	3.1	2.0	1.2
31	1.4	-----	15	11	-----	33	-----	5.3	-----	3.1	2.0	-----
TOTAL	51.9	263.0	328.1	571	247.7	579.4	1,003	221.6	141.0	135.7	77.4	46.8
MEAN	1.67	8.77	10.6	18.4	8.85	18.7	33.4	7.15	4.70	4.38	2.50	1.56
MAX	2.7	37	70	47	19	88	270	11	5.3	13	3.1	2.0
MIN	1.4	1.4	3.8	11	7.0	9.4	12	5.3	4.1	3.1	2.0	1.2
AC-FT	103	522	651	1,130	491	1,150	1,990	440	280	269	154	93

CAL YR 1973 TOTAL 3,275.5 MEAN 8.97 MAX 70 MIN 1.4 AC-FT 6,500
WTR YR 1974 TOTAL 3,666.6 MEAN 10.0 MAX 270 MIN 1.2 AC-FT 7,270

PEAK DISCHARGE (BASE, 110 FT³/S).--Dec. 27 (0315) 144 ft³/s (3.00 ft); Apr. 1 (time unknown) 283 ft³/s (3.68 ft).

NOTE.--No gage-height record Feb. 19 to Apr. 4.

SAN VICENTE CREEK BASIN

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11161860 SAN VICENTE CREEK NEAR DAVENPORT, CALIF.

LOCATION.--Lat 37°03'19", long 122°10'52", on east boundary of San Vicente Grant, Santa Cruz County, on right bank, 0.6 mi (1.0 km) downstream from small right-bank tributary, 1.2 mi (1.9 km) upstream from Mill Creek, and 3.1 mi (5.0 km) north of Davenport.

DRAINAGE AREA.--6.07 mi² (15.72 km²).

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder and concrete dam. Altitude of gage is 740 ft (226 m), from topographic map.

AVERAGE DISCHARGE.--5 years, 10.3 ft³/s (0.292 m³/s), 7,460 acre-ft/yr (9.20 km³/yr).

EXTREMES.--Current year: Maximum discharge, 937 ft³/s (26.5 m³/s) Apr. 1 (gage height, 5.83 ft or 1.777 m), from rating curve extended above 210 ft³/s (5.95 m³/s); minimum daily, 1.5 ft³/s (0.042 m³/s) Oct. 4-6.
Period of record: Maximum discharge, 937 ft³/s (26.5 m³/s) Apr. 1, 1974 (gage height, 5.83 ft or 1.777 m), from rating curve extended above 210 ft³/s (5.95 m³/s); minimum daily, 0.59 ft³/s (0.011 m³/s) Aug. 24, 31, Sept. 1, 2, 7, 1972.

REMARKS.--Records good. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	2.7	17	27	24	49	555	20	11	6.5	5.2	3.5
2	1.7	2.6	15	23	23	47	238	19	10	6.5	5.2	3.5
3	1.6	2.6	12	31	22	38	116	19	10	6.3	5.0	3.3
4	1.5	2.7	11	43	21	31	81	19	9.8	6.3	5.0	3.3
5	1.5	7.7	10	36	20	28	67	18	9.8	6.3	5.0	3.2
6	1.5	4.4	9.5	31	19	27	60	18	9.3	6.3	5.0	3.2
7	4.7	13	9.5	31	19	42	53	17	9.1	6.1	4.6	3.2
8	3.0	7.6	9.3	31	18	36	48	17	9.1	12	4.6	3.0
9	2.5	6.1	9.1	27	18	31	48	17	8.8	17	4.6	3.0
10	2.1	6.5	8.8	26	17	28	44	16	8.8	10	4.6	3.0
11	2.1	7.2	9.8	24	17	27	43	16	8.6	10	4.6	2.9
12	2.0	4.7	9.5	25	18	28	40	15	8.4	8.2	4.6	3.0
13	1.8	19	17	25	17	27	38	15	8.4	7.8	4.6	3.0
14	1.8	17	15	24	17	26	36	15	8.2	7.3	4.6	3.0
15	1.7	12	12	23	16	24	34	15	8.2	7.1	4.4	3.0
16	1.7	24	11	49	16	24	32	15	8.4	6.9	4.4	3.0
17	1.7	27	12	84	16	23	31	14	8.6	6.7	4.3	2.9
18	1.7	27	11	63	15	23	31	14	8.8	6.5	4.1	2.7
19	1.7	18	10	62	24	22	29	14	9.1	6.3	4.1	2.7
20	1.8	16	9.8	49	20	22	27	13	8.4	6.1	4.0	2.7
21	2.7	12	19	43	19	21	27	13	8.0	5.9	3.8	2.7
22	5.2	12	24	27	19	20	26	13	7.6	5.9	3.8	2.6
23	6.6	11	18	34	18	20	25	13	7.3	5.7	3.8	2.6
24	4.0	9.8	16	31	18	20	26	12	7.1	5.7	3.6	2.6
25	3.5	9.5	15	30	17	21	24	12	7.3	5.6	3.6	2.6
26	3.3	9.1	16	28	16	23	24	12	7.1	5.6	3.6	2.7
27	2.0	8.4	101	27	16	40	23	11	7.1	5.6	3.6	2.7
28	2.9	7.8	49	25	16	182	22	11	6.9	5.4	3.6	2.9
29	2.7	7.6	31	24	-----	71	22	11	6.5	5.4	3.6	2.9
30	2.7	7.2	22	24	-----	126	20	11	6.5	5.4	3.6	2.6
31	2.7	-----	28	24	-----	60	-----	11	-----	5.2	3.6	-----
TOTAL	79.1	600.7	577.3	1,052	518	1,215	1,890	656	252.2	217.6	132.7	88.0
MEAN	2.55	13.6	18.6	33.9	18.5	39.2	63.0	16.7	8.41	7.02	4.28	2.93
MAX	6.6	44	101	44	26	182	555	20	11	17	5.2	3.5
MIN	1.5	2.6	9.8	23	15	20	20	11	6.5	5.2	3.6	2.6
AC-FT	157	795	1,150	2,090	1,036	2,410	3,750	904	500	432	263	175

CAL YR 1973 TOTAL 5,320.3 MEAN 14.6 MAX 122 MIN 1.5 AC-FT 10,550
WTR YR 1974 TOTAL 6,878.6 MEAN 18.8 MAX 555 MIN 1.5 AC-FT 13,640

PEAK DISCHARGE (BASE, 100 FT³/S)
DATE TIME G.H. DISCHARGE DATE TIME G.H. DISCHARGE
11-12 0400 4.08 102 3-28 0115 5.35 575
12-27 0400 4.37 160 4-1 0830 5.83 937
1-17 0500 4.22 127

PESCADERO CREEK BASIN

11162500 PESCADERO CREEK NEAR PESCADERO, CALIF.

LOCATION.--Lat 37°15'39", long 122°19'40", in SW¼ sec.5, T.8 S., R.4 W., San Mateo County, on left bank at downstream side of highway bridge, 3.0 mi (4.8 km) east of Pescadero, and 5.3 mi (8.5 km) upstream from mouth.

DRAINAGE AREA.--45.9 mi² (118.9 km²).

PERIOD OF RECORD.--April 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 62.3 ft (18.99 m) above mean sea level.

AVERAGE DISCHARGE.--23 years, 42.8 ft³/s (1.212 m³/s), 31,010 acre-ft/yr (38.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,370 ft³/s (67.1 m³/s) Apr. 1 (gage height, 9.88 ft or 3.011 m); minimum daily, 2.2 ft³/s (0.062 m³/s) Oct. 1, 3, 5, 6.

Period of record: Maximum discharge, 9,420 ft³/s (267 m³/s) Dec. 23, 1955 (gage height, 21.27 ft or 6.483 m), from rating curve extended above 2,700 ft³/s (76.5 m³/s) on basis of slope-area measurement of maximum flow; no flow at times.

REMARKS.--Records good. Minor regulation from swimming pools in San Mateo County Memorial Park and Portola State Park during summer months. Small diversions above station by pumping. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1445: 1952-53(M). WSP 1715: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	3.3	425	142	52	856	1,170	46	31	11	5.9	5.3
2	2.3	3.3	197	116	49	781	902	45	31	9.6	5.9	5.0
3	2.2	3.3	122	272	46	412	408	43	26	9.3	5.9	4.8
4	2.3	3.3	95	410	44	242	286	42	29	9.3	5.7	4.6
5	2.2	4.8	79	245	42	174	224	40	28	8.8	5.7	4.4
6	2.2	6.8	6.8	199	40	142	186	39	27	9.0	5.7	4.4
7	5.0	31	61	189	38	174	159	38	26	9.0	5.5	4.2
8	9.9	16	56	168	37	159	141	36	26	11	5.3	4.0
9	6.7	11	51	142	35	126	146	35	25	17	5.5	4.0
10	5.0	15	47	125	34	109	129	34	25	13	5.3	4.0
11	4.0	22	52	111	33	99	114	33	24	10	5.3	4.0
12	3.5	215	49	110	33	100	104	32	20	9.6	5.0	3.9
13	3.2	53	61	104	35	90	94	31	16	9.0	5.0	3.9
14	3.2	38	62	93	31	82	87	30	16	8.5	4.8	3.9
15	2.9	27	54	84	31	76	81	29	16	8.5	5.0	4.0
16	2.9	83	50	106	31	72	77	29	16	8.2	5.0	4.2
17	2.9	145	51	180	30	68	73	29	16	11	5.0	4.2
18	2.7	162	49	144	28	64	74	28	16	8.5	5.0	4.0
19	2.7	73	44	149	57	60	70	28	17	7.9	5.0	4.0
20	2.7	50	42	136	46	56	66	27	16	7.4	5.0	4.0
21	3.2	41	82	117	39	53	63	26	15	7.2	4.8	4.0
22	5.5	39	191	102	37	51	60	26	14	6.7	4.8	4.0
23	29	38	116	91	35	49	62	25	13	6.7	4.4	4.0
24	9.6	34	92	82	33	48	66	27	13	6.9	4.4	4.0
25	5.7	32	80	76	32	50	59	33	12	6.9	4.4	3.9
26	4.6	32	77	70	31	49	58	32	12	5.3	4.2	3.9
27	4.0	28	589	64	31	64	56	32	11	5.7	4.4	4.0
28	3.9	25	290	61	37	396	52	31	11	6.7	4.6	4.2
29	3.7	23	252	57	-----	174	50	32	11	7.7	4.8	4.2
30	3.5	162	205	54	-----	442	47	31	10	6.2	5.5	6.2
31	3.3	-----	158	52	-----	247	-----	32	-----	4.4	5.5	-----
TOTAL	146.7	1,481.0	4,247	4,051	1,047	5,565	5,164	1,021	569	266.0	158.3	127.2
MEAN	4.73	49.4	137	131	37.4	180	172	32.9	19.0	8.58	5.11	4.24
MAX	29	215	825	410	57	856	1,170	46	31	17	5.9	6.2
MIN	2.2	3.3	42	52	28	48	47	25	10	4.4	4.2	3.9
AC-FT	291	2,940	8,420	8,040	2,080	11,040	10,240	2,030	1,130	528	314	252

CAL YR 1973 TOTAL 28,853.8 MEAN 79.1 MAX 1,810 MIN 2.2 AC-FT 57,230
 WTR YR 1974 TOTAL 23,843.2 MEAN 65.3 MAX 1,170 MIN 2.2 AC-FT 47,290

PEAK DISCHARGE (BASE, 700 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-1	0330	8.46	1,700	3-28	0545	6.20	831
12-27	0700	6.62	969	3-30	0800	6.04	781
3-2	0015	7.94	1,480	4-1	1815	9.88	2,370

11162540 BUTANO CREEK NEAR PESCADERO, CALIF.

LOCATION.--Lat 37°14'01", long 122°21'56", in Butano Grant, San Mateo County, on right bank 0.2 mi (0.3 km) downstream from small right-bank tributary, and 1.7 mi (2.7 km) southeast of Pescadero.

DRAINAGE AREA.--18.3 mi² (47.4 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1957, 1959-62, and annual maximum, water years 1959-62. June 1962 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 70 ft (21 m), from topographic map. February 1957 to June 22, 1962, crest-stage gage at site 500 ft (152 m) downstream at same datum.

AVERAGE DISCHARGE.--12 years, 22.1 ft³/s (0.626 m³/s), 16,010 acre-ft/yr (19.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,280 ft³/s (36.2 m³/s) Apr. 1 (gage height, 14.66 ft or 4.468 m); minimum daily, 1.2 ft³/s (0.034 m³/s) Oct. 1-6.

Period of record: Maximum discharge, 1,600 ft³/s (45.3 m³/s) Feb. 13, 1962 (gage height, 10.04 ft or 3.060 m, crest-stage gage, from floodmarks), by slope-area measurement of maximum flow; maximum gage height, 18.35 ft (5.593 m) Jan. 21, 1967; no flow July 29 to Aug. 1, 1964.

REMARKS.--Records fair except those for period of no gage-height record, which are poor. No regulation; small diversions above station for irrigation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	6.0	322	90	34	254	805	19	8.4	4.7	2.9	2.2
2	1.2	6.0	93	69	32	386	614	19	8.4	4.4	2.6	2.2
3	1.2	6.0	60	204	29	275	336	17	8.4	4.2	2.6	2.2
4	1.2	6.0	46	306	27	186	225	17	8.4	4.1	2.6	2.1
5	1.2	14	39	169	25	118	166	17	8.3	4.0	2.6	2.1
6	1.2	31	34	117	23	89	124	17	8.3	4.0	2.4	2.0
7	4.4	15	29	97	22	88	96	16	7.9	4.2	2.3	2.1
8	5.0	11	26	81	21	101	77	15	7.6	7.6	2.4	2.1
9	4.7	10	24	68	20	98	75	15	7.3	14	2.3	2.0
10	4.0	12	21	59	19	89	63	14	7.2	7.1	2.4	1.8
11	3.6	40	25	51	19	80	53	13	6.7	5.4	2.7	1.5
12	3.6	162	21	47	19	74	47	13	6.8	4.7	2.6	1.6
13	3.6	30	65	44	20	69	42	12	6.6	4.4	2.3	1.5
14	3.6	19	53	40	18	63	39	12	6.5	4.2	2.1	1.5
15	3.6	25	41	37	17	57	37	12	6.6	4.0	2.3	2.0
16	3.6	80	34	46	17	52	37	11	7.0	4.0	2.2	2.0
17	3.6	135	32	112	16	48	34	11	7.3	4.0	2.1	1.7
18	3.6	82	29	131	15	44	34	11	7.6	3.8	2.1	1.5
19	3.6	38	25	147	18	41	31	11	7.1	3.6	1.8	1.6
20	3.6	31	24	142	21	38	28	11	6.5	3.5	2.1	1.8
21	6.1	26	80	110	22	35	25	10	6.0	3.5	1.8	2.1
22	12	27	137	87	22	33	24	11	5.9	3.3	2.1	2.0
23	22	24	93	73	21	32	27	10	5.9	3.3	2.0	1.8
24	10	20	64	65	22	29	31	10	5.3	3.2	2.0	2.0
25	8.2	19	55	58	21	29	25	9.7	5.0	2.7	2.1	2.0
26	7.7	14	51	51	20	29	25	9.7	5.2	2.6	1.8	2.0
27	6.6	16	329	47	19	32	24	9.1	5.2	2.4	1.7	2.0
28	6.6	14	209	43	19	461	22	9.1	5.2	2.6	1.8	1.8
29	6.0	13	171	39	-----	217	21	9.1	4.9	2.9	2.2	1.8
30	5.4	40	146	37	-----	404	20	9.1	4.7	2.9	2.3	2.0
31	6.0	-----	107	34	-----	252	-----	8.8	-----	2.7	2.2	-----
TOTAL	157.9	976.0	2,475	2,701	598	3,803	3,207	388.6	202.2	132.0	69.4	57.0
MEAN	5.09	32.5	79.8	87.1	21.4	123	107	12.5	6.74	4.26	2.24	1.90
MAX	22	162	329	306	34	461	805	19	8.4	14	2.9	2.2
MIN	1.2	6.0	21	34	15	29	20	8.8	4.7	2.4	1.7	1.5
AC-FT	313	1,940	4,910	5,360	1,190	7,540	6,360	771	401	262	138	113

CAL YR 1973 TOTAL 13,120.71 MEAN 35.9 MAX 584 MIN .92 AC-FT 26,020
WTR YR 1974 TOTAL 14,767.10 MEAN 40.5 MAX 805 MIN 1.2 AC-FT 29,290

PEAK DISCHARGE (BASE, 200 FT ³ /S)						NOTE.--No gage-height record Oct. 8 to Nov. 20.	
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-12	unknown	9.7	588	3-2	0100	9.76	596
11-17	unknown	--	unknown	3-28	0415	11.86	888
12-1	0415	9.74	594	3-30	0645	9.97	625
12-27	0830	9.33	534	4-1	1915	14.66	1,280
1-3	1930	9.22	519				

11162570 SAN GREGORIO CREEK AT SAN GREGORIO, CALIF.

LOCATION.--Lat 37°19'33", long 122°23'08", in San Gregorio Grant, San Mateo County, on right bank at downstream side of bridge on Old Coast Highway, 0.1 mi (0.2 km) south of town of San Gregorio, and 1.4 mi (2.3 km) upstream from mouth.

DRAINAGE AREA.--50.9 mi² (131.8 km²).

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 11.40 ft (3.475 m) above mean sea level.

AVERAGE DISCHARGE.--5 years, 48.7 ft³/s (1.379 m³/s), 35,280 acre-ft/yr (43.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,600 ft³/s (102 m³/s) Apr. 1 (gage height, 17.20 ft or 5.243 m, crest-stage gage); minimum daily, 0.50 ft³/s (0.014 m³/s) Oct. 31 to Nov. 2.

Period of record: Maximum discharge, 3,730 ft³/s (106 m³/s) Jan. 16, 1973 (gage height, 17.5 ft or 5.33 m, from outside high-water marks); no flow many days in 1972.

REMARKS.--Records good. No regulation or diversion above station.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FER	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	.50	961	205	61	757	2,030	38	16	9.7	7.2	5.6
2	2.4	.50	234	141	54	845	877	37	16	9.1	7.0	4.4
3	2.0	.60	152	576	49	457	360	36	15	8.7	6.5	4.3
4	1.6	.72	119	464	46	225	239	35	15	8.5	5.8	3.7
5	2.5	2.8	101	274	44	148	188	35	14	8.4	5.8	3.9
6	1.8	140	87	235	41	112	156	34	14	8.3	5.4	3.6
7	7.3	33	77	217	38	227	131	32	14	11	5.3	3.4
8	9.7	15	71	180	37	141	118	31	13	15	5.5	3.4
9	7.3	10	64	149	35	99	131	30	13	34	5.1	3.2
10	4.9	20	60	128	34	81	106	27	12	28	4.8	3.4
11	3.8	900	77	111	34	69	95	26	12	22	4.8	3.2
12	3.4	300	66	102	34	66	87	26	12	18	4.8	3.1
13	3.1	190	93	90	36	56	78	25	12	15	4.8	3.1
14	3.1	135	77	84	32	50	73	24	12	14	5.0	3.1
15	2.8	310	67	81	30	46	69	24	12	13	5.1	3.1
16	2.8	680	64	165	30	41	66	23	13	12	4.7	3.2
17	2.5	200	70	286	29	38	63	22	14	12	4.8	3.2
18	2.5	70	66	195	29	35	64	22	14	12	4.8	3.2
19	2.5	58	61	257	128	32	61	21	14	11	4.6	3.4
20	2.5	61	57	196	58	30	57	21	14	10	4.2	3.7
21	2.8	52	191	149	46	27	54	20	12	9.3	4.5	3.2
22	4.9	66	280	121	43	26	52	20	12	8.7	4.3	3.2
23	20	55	155	106	38	25	57	20	12	8.3	4.0	3.4
24	3.4	50	121	94	35	23	56	19	11	7.7	3.9	3.7
25	2.0	51	107	85	32	26	49	18	11	7.1	3.9	3.7
26	1.6	57	147	78	32	24	48	17	11	6.8	3.9	3.4
27	1.4	42	1,170	70	31	78	46	17	11	6.6	3.9	3.4
28	1.0	38	530	65	56	530	43	17	11	7.0	4.0	3.4
29	.86	34	657	61	-----	166	41	17	10	7.3	4.8	3.4
30	.60	264	366	57	-----	380	39	17	10	6.9	5.3	3.4
31	.50	-----	246	57	-----	176	-----	16	-----	7.1	5.8	-----
TOTAL	109.76	3,836.12	6,594	5,079	1,192	5,036	5,534	767	382	362.5	154.3	105.4
MEAN	3.54	128	213	164	42.6	162	184	24.7	12.7	11.7	4.98	3.51
MAX	20	900	1,170	576	128	845	2,030	38	16	34	7.2	5.6
MIN	.50	.50	57	57	29	23	39	16	10	6.6	3.9	3.1
AC-FT	218	7,610	13,080	10,070	2,360	9,990	10,980	1,520	758	719	306	209

CAL YR 1973 TOTAL 34,792.08 MEAN 95.3 MAX 1,800 MIN .50 AC-FT 69,010

WTR YR 1974 TOTAL 29,152.08 MEAN 79.9 MAX 2,030 MIN .50 AC-FT 57,820

PEAK DISCHARGE (BASE, 1,000 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-12	0515	9.1	1,040	1-3	1845	11.24	1,630
12-1	0245	14.40	2,640	3-1	2215	12.76	2,080
12-27	0415	12.86	2,120	3-28	0245	10.07	1,300
12-29	1230	9.15	1,050	4-1	1700	17.20	3,600

11162630 PILARCITOS CREEK AT HALF MOON BAY, CALIF.

LOCATION.--Lat 37°28'07", long 122°26'08", on north boundary of Miramontes Grant, San Mateo County, on left bank 0.2 mi (0.3 km) downstream from State Highway 1, 0.5 mi (0.8 km) northwest of town of Half Moon Bay, and 1.0 mi (1.6 km) upstream from mouth.

DRAINAGE AREA.--27.2 mi² (70.4 km²).

PERIOD OF RECORD.--July 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 23.59 ft (7.190 m) above mean sea level.

AVERAGE DISCHARGE (unadjusted).--8 years, 16.5 ft³/s (0.467 m³/s), 11,950 acre-ft/yr (14.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 722 ft³/s (20.4 m³/s) Jan. 3 (gage height, 7.95 ft or 2.423 m); minimum daily, 0.10 ft³/s (0.003 m³/s) Nov. 4.

Period of record: Maximum discharge, 1,290 ft³/s (36.5 m³/s) Jan. 30, 1968 (gage height, 11.20 ft or 3.414 m); no flow at times in most years.

REMARKS.--Records fair. Flow partly regulated by storage in Pilarcitos Lake 10 mi (16 km) upstream, capacity, 3,100 acre-ft (3.82 hm³). Water is diverted to City of San Francisco Water System; small diversions for irrigation above station by pumping.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.81	.31	153	76	20	209	458	23	5.2	3.0	1.5	1.1
2	.28	.14	56	59	17	258	283	19	5.8	2.6	1.4	1.0
3	.17	.11	39	225	15	148	126	16	5.8	2.6	1.4	.90
4	.10	.10	32	180	14	86	93	15	5.2	3.0	1.3	.75
5	.32	15	26	116	13	70	81	14	4.7	2.6	1.2	.78
6	.14	24	23	96	13	59	70	14	4.2	3.4	.96	.53
7	.22	4.1	20	89	12	86	62	9.9	4.7	3.0	.86	.29
8	2.9	5.0	17	74	11	67	58	9.2	5.2	5.2	.94	.45
9	2.2	5.8	16	64	9.9	56	67	9.2	4.2	7.0	.80	.44
10	1.5	9.5	14	58	9.9	49	54	8.6	4.2	5.3	.93	.15
11	1.1	24	19	52	9.2	46	48	8.0	4.2	4.3	1.3	1.6
12	.42	47	14	48	11	45	42	13	4.2	4.0	1.3	2.7
13	.73	16	22	43	9.2	40	38	11	3.8	4.1	1.5	2.9
14	.64	12	17	41	8.6	38	36	9.9	3.4	3.8	.99	1.2
15	.63	8.7	15	38	8.6	35	34	9.2	3.0	3.4	.79	.77
16	.59	24	14	72	8.6	33	31	8.6	3.4	3.1	.86	.62
17	.57	31	15	75	8.0	30	30	8.6	3.0	3.3	1.1	.38
18	.51	26	14	63	8.0	30	30	8.0	3.4	3.3	1.2	.38
19	.82	15	13	77	30	28	36	7.4	3.4	3.2	1.0	.48
20	.79	16	13	62	15	26	36	7.4	3.0	2.8	.71	.51
21	.76	14	54	49	13	25	34	7.4	3.0	2.6	.58	.59
22	1.8	18	50	40	12	24	31	7.4	2.6	2.2	.44	.62
23	1.7	14	39	35	11	23	36	6.8	3.4	1.9	.43	.78
24	3.2	13	32	31	9.9	22	31	6.8	3.0	1.6	.41	.67
25	.82	16	28	28	9.2	30	28	6.8	2.6	1.6	.44	.75
26	.62	14	56	26	9.9	26	26	6.8	2.3	1.5	.66	.87
27	.41	11	246	23	8.6	38	26	6.3	2.3	2.5	.80	.84
28	.44	10	154	21	14	94	25	5.8	2.3	2.2	.85	.57
29	.41	9.6	215	19	-----	54	24	5.2	2.3	1.8	.97	.82
30	.14	94	125	18	-----	87	23	5.2	2.6	1.7	1.2	.81
31	.17	-----	91	19	-----	61	-----	5.2	-----	1.6	1.1	-----
TOTAL	28.63	506.36	1,652	1,917	338.6	1,923	1,997	298.7	110.4	94.2	29.92	25.25
MEAN	.92	16.9	53.3	61.8	12.1	62.0	66.6	9.64	3.68	3.04	.97	.84
MAX	3.2	94	246	225	30	258	458	23	5.8	7.0	1.5	2.9
MIN	.14	.10	13	18	8.0	22	23	5.2	2.3	1.5	.41	.15
AC-FT	57	1,000	3,280	3,800	672	3,810	3,960	592	219	187	59	50
(a)	499	1,260	1,320	1,290	501	1,920	1,680	157	140	359	45	58
CAL YR 1973	TOTAL 9,938.16 MEAN 27.2 MAX 532 MIN 0 AC-FT 19,710											
WTR YR 1974	TOTAL 8,921.06 MEAN 24.4 MAX 458 MIN .10 AC-FT 17,690											

PEAK DISCHARGE (BASE, 200 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-30	2245	6.09	414	3-1	2130	7.23	613
12-27	0215	6.26	442	3-28	0115	4.56	214
12-29	0915	5.47	320	4-1	1600	7.84	705
1-3	1500	7.95	722				

a Diversion, in acre-feet, to City of San Francisco Water System, furnished by city and county of San Francisco.

LOCATION.--Lat 37°39'14", long 122°25'31", in Buri Buri Grant, San Mateo County, on left bank in Orange Memorial Park, 1.0 mi (1.6 km) southwest of South San Francisco Post Office.

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 12.53 ft (3.819 m) above mean sea level. Recording rain gages at Coast Guard radio station 2.9 mi (4.7 km) southwest and on San Bruno Mt. 2.9 mi (4.7 km) northwest. Altitude of both sites is 930 ft (283 m), from topographic map.

AVERAGE DISCHARGE.--11 years, 7.65 ft³/s (0.217 m³/s), 5,540 acre-ft/yr (6.83 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,470 ft³/s (41.6 m³/s) Nov. 30 (gage height, 8.90 ft or 2.713 m); minimum daily, 0.73 ft³/s (0.021 m³/s) May 9.

Period of record: Maximum discharge, 2,880 ft³/s (81.6 m³/s) Jan. 16, 1973 (gage height, 11.80 ft or 3.597 m); no flow Oct. 5, 26, 1963.

REMARKS.--Records poor. Low flow affected by return flow from urban irrigation. Records of water temperatures and sediment discharge for the current year are published in Part 2 of this report.

[illegible]

CAL YR 1973	TOTAL	5,060.82	MEAN	13.9	MAX	324	MIN	.78	AC-FT	10,040
WTR YR 1974	TOTAL	4,398.98	MEAN	12.1	MAX	251	MIN	.73	AC-FT	8,730

		PEAK DISCHARGE (BASE, 600 FT ³ /S)				a Precipitation, in inches, at San Bruno	
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	Mt. gage.
10-22	2015	7.24	843	1-3	1230	8.03	1,120
11-16	0430	6.90	735	3-1	1515	7.14	811
11-30	2115	8.90	1,470	3-27	2230	6.50	613
12-21	1700	7.66	984	4-1	0915	6.72	680
12-26	2230	7.17	820				

11162800 REDWOOD CREEK AT REDWOOD CITY, CALIF.

LOCATION.--Lat 37°26'58", long 122°13'57", in Pulgas Grant, San Mateo County, at Menlo Country Club, on right bank 200 ft (61 m) upstream from Alameda de las Pulgas bridge, and 2.5 mi (4.0 km) south of Redwood City Old Post Office.

DRAINAGE AREA.--1.82 mi² (4.71 km²).

PERIOD OF RECORD.--September 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 83.92 ft (25.579 m) above mean sea level.

AVERAGE DISCHARGE.--15 years, 1.12 ft³/s (0.0317 m³/s), 811 acre-ft/yr (1.00 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 319 ft³/s (9.03 m³/s) Jan. 3 (gage height, 6.35 ft or 1.935 m, from peak-stage indicator); minimum daily, 0.02 ft³/s (0.001 m³/s) Oct. 2, 4.
Period of record: Maximum discharge, 644 ft³/s (18.2 m³/s) Jan. 31, 1963 (gage height, 9.36 ft or 2.853 m), from rating curve extended above 180 ft³/s (5.10 m³/s) on basis of slope-area measurement of maximum flow and computation of maximum flow through culvert; maximum gage height, 11.55 ft (3.520 m) Nov. 29, 1970 (backwater from culvert trash racks); no flow at times.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Low flow at times affected by return flow from urban irrigation.

REVISIONS.--WSP 1929: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.08	.26	38	1.3	1.4	40	46	.68	.27	.13	.04	.09
2	.02	.26	3.6	1.2	1.0	30	5.9	.50	.21	.10	.05	.12
3	.03	.30	2.3	12	.85	20	2.6	.44	.21	.12	.05	.13
4	.02	.34	1.9	9.5	.68	14	1.9	.49	.21	.12	.04	.14
5	.03	13	1.7	5.5	.40	9.0	1.5	.44	.23	.15	.05	.16
6	.03	14	1.7	4.4	.35	6.5	1.3	.45	.23	.12	.05	.19
7	1.9	1.5	1.5	5.8	.40	10	1.2	.38	.22	.19	.06	.19
8	1.3	1.1	1.5	4.2	.45	2.7	1.3	.41	.21	.56	.06	.22
9	.34	1.9	1.4	2.5	.50	2.0	3.5	.38	.21	.05	.05	.22
10	.22	2.4	1.3	1.6	.50	1.8	1.2	.33	.18	.05	.04	.22
11	.26	8.7	3.7	1.4	.70	1.7	1.1	.35	.20	.06	.04	.22
12	.49	21	1.7	1.4	.90	2.0	1.1	.35	.21	.05	.04	.21
13	.22	2.3	3.6	1.5	1.2	1.7	1.1	.32	.23	.05	.04	.19
14	.22	1.7	1.9	1.8	1.0	1.7	1.0	.35	.22	.05	.06	.16
15	.39	1.4	1.7	1.2	.78	1.7	.97	.32	.22	.04	.05	.14
16	.34	12	1.5	2.1	.88	1.7	.97	.34	.22	.04	.05	.14
17	.30	12	1.9	6.1	.74	1.7	.96	.33	.28	.04	.06	.14
18	.30	3.6	1.5	4.0	2.5	1.5	.96	.38	.47	.04	.04	.13
19	.34	1.9	1.5	5.0	5.0	1.7	.97	.37	.22	.04	.06	.07
20	.34	2.0	1.7	3.5	4.0	1.5	.95	.42	.15	.04	.06	.05
21	.34	1.6	11	2.5	2.3	1.5	.90	.43	.17	.04	.06	.05
22	4.6	1.7	4.7	1.8	1.8	1.5	.91	.41	.12	.04	.06	.04
23	.97	1.3	1.8	1.6	1.4	1.5	1.3	.43	.15	.04	.06	.05
24	.55	1.2	1.5	1.4	1.2	1.5	1.0	.64	.17	.04	.06	.06
25	.34	1.2	1.3	1.2	1.1	2.3	.82	.62	.12	.04	.06	.07
26	.30	1.1	15	1.1	1.0	1.7	.89	.59	.13	.04	.07	.07
27	.30	1.1	23	.86	1.2	17	.76	.52	.15	.04	.06	.08
28	.30	1.1	4.6	.75	1.7	14	.74	.50	.15	.05	.06	.09
29	.26	1.1	2.5	.63	-----	3.9	.73	.41	.12	.05	.09	.10
30	.26	32	1.9	.80	-----	19	.70	.31	.11	.04	.08	.09
31	.26	-----	1.7	1.0	-----	2.5	-----	.34	-----	.04	.08	-----
TOTAL	15.65	145.06	144.6	89.64	35.93	219.3	85.23	13.23	5.99	2.50	1.73	3.83
MFAN	.50	4.84	4.66	2.89	1.28	7.07	2.84	.43	.20	.081	.056	.13
MAX	4.6	32	38	12	5.0	40	46	.68	.47	.56	.09	.22
MIN	.02	.26	1.3	.63	.35	1.5	.70	.31	.11	.04	.04	.04
AC-FT	31	288	287	178	71	435	169	26	12	5.0	3.4	7.6

CAL YR 1973 TOTAL 886.74 MEAN 2.43 MAX 65 MIN .02 AC-FT 1,760
WTR YR 1974 TOTAL 762.69 MEAN 2.09 MAX 46 MIN .02 AC-FT 1,510

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-12	0200	4.22	137	1-3	unknown	6.35	319
11-16	0645	3.71	103	3-1	unknown	4.58	163
12-1	0045	6.22	306	3-27	2315	4.00	122
12-26	2400	4.08	127				

NOTE.--No gage-height record Dec. 29 to Mar. 7.

SAN FRANCISQUITO CREEK BASIN

11164500 SAN FRANCISQUITO CREEK AT STANFORD UNIVERSITY, CALIF.

LOCATION.--Lat 37°25'24", long 122°11'18", in San Francisquito Grant, Santa Clara County, at golf course, on right bank 1.1 mi (1.8 km) downstream from Los Trancos Creek, and 1.1 mi (1.8 km) west of Stanford University Post Office.

DRAINAGE AREA.--37.4 mi² (96.9 km²).

PERIOD OF RECORD.--October 1930 to September 1941, October 1950 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 115.75 ft (35.281 m) above mean sea level.

AVERAGE DISCHARGE.--35 years, 19.1 ft³/s (0.541 m³/s), 13,840 acre-ft/yr (17.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,410 ft³/s (96.6 m³/s) Apr. 1 (gage height, 7.85 ft or 2.393 m); minimum daily, 0.08 ft³/s (0.002 m³/s) Sept. 12, 13, 26.

Period of record: Maximum discharge, 5,560 ft³/s (157 m³/s) Dec. 22, 1955 (gage height, 13.60 ft or 4.145 m); no flow at times.

REMARKS.--Records good. Flow regulated by Searsville Lake 5 mi (8 km) upstream, capacity, 952 acre-ft (1.17 hm³). Diversions of about 800 acre-ft (986,000 m³) each year above station to Los Trancos and Lagunita Canals for irrigation on Stanford University campus below station. Low flow affected by waste water from Stanford Linear Accelerator.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.52	.36	624	86	32	1,000	1,730	15	1.2	.44	.59	.52
2	.36	.51	102	61	22	800	613	15	1.0	.43	.59	.43
3	.21	.59	49	402	20	400	236	14	.89	.43	.69	.43
4	.16	.78	30	344	13	300	142	13	.78	.51	.69	.30
5	.39	16	23	172	4.5	200	108	13	.59	.59	.59	.14
6	1.2	86	19	160	4.0	150	88	13	1.0	.59	.36	.14
7	4.7	5.6	17	172	5.6	170	74	12	.67	.51	.30	.18
8	2.0	.30	15	125	7.1	110	47	9.4	.51	.59	.18	.24
9	.83	.43	13	80	8.1	70	93	5.5	.43	2.8	.30	.43
10	.45	1.1	12	66	8.2	57	68	4.9	.59	1.4	.18	.43
11	.39	14	25	55	8.2	51	46	4.5	.51	.59	.24	.24
12	.43	219	19	54	12	57	43	4.8	.17	.59	.30	.08
13	.36	31	29	54	20	43	39	5.7	.13	.51	.30	.08
14	.37	11	21	58	15	39	37	4.0	.49	.59	.10	.24
15	.43	4.5	17	49	14	38	33	3.9	1.9	.43	.43	.36
16	.51	70	14	98	15	34	31	4.2	2.6	.10	.43	.51
17	.51	101	17	159	14	32	26	4.1	2.8	.18	.36	.69
18	.69	99	16	116	13	21	24	4.0	3.1	.24	.24	.51
19	.69	36	13	134	106	10	23	4.7	3.0	.43	.36	.30
20	1.4	26	11	104	44	18	20	4.6	2.7	.24	.24	.51
21	1.2	21	57	70	28	23	19	4.4	2.7	.24	.18	.59
22	4.5	12	91	50	25	20	17	4.1	2.5	.14	.18	.51
23	2.2	15	51	43	22	19	20	3.9	2.4	.24	.30	.59
24	.36	16	36	36	21	18	27	3.3	2.3	.18	.24	.24
25	.30	7.2	27	34	20	27	19	3.0	2.1	.18	.30	.18
26	.30	4.7	82	31	19	27	19	2.9	1.1	.11	.69	.09
27	.24	2.8	856	29	18	54	22	2.6	.89	.24	.43	.43
28	.30	4.3	231	25	25	384	20	2.2	1.0	.18	.43	.59
29	.36	5.8	210	19	-----	126	19	1.8	.89	.18	.36	.51
30	.36	99	142	22	-----	337	16	1.6	.78	.30	.59	.36
31	.30	-----	95	24	-----	131	-----	1.5	-----	.59	.51	-----
TOTAL	27.02	910.97	2,964	2,932	564.7	4,766	3,714	190.7	41.74	14.62	11.88	10.91
MEAN	.87	30.4	95.6	94.6	20.2	154	124	6.15	1.39	.47	.38	.36
MAX	4.7	219	856	402	106	1,000	1,730	15	3.1	2.0	.69	.69
MIN	.16	.30	11	19	4.5	10	16	1.5	.13	.11	.18	.08
AC-FT	54	1,810	5,880	5,820	1,120	9,450	7,380	378	83	29	24	22

CAL YR 1973 TOTAL 16,836.29 MEAN 46.1 MAX 1,250 MIN .05 AC-FT 33,390
WTR YR 1974 TOTAL 16,153.54 MEAN 44.3 MAX 1,730 MIN .08 AC-FT 32,040

PEAK DISCHARGE (BASE, 700 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-12	0445	3.80	700	3-1	unknown	4.79	1,240
12-1	0230	5.45	1,710	3-28	0245	4.20	898
12-27	0445	5.26	1,580	4-1	1545	7.85	3,410
1-3	1815	4.58	1,120				

11166000 MATADERO CREEK AT PALO ALTO, CALIF.

LOCATION.--Lat 37°25'18", long 122°08'04", in Rincon de San Francisquito Grant, Santa Clara County, on right bank on Ash Street 150 ft (46 m) upstream from Lambert Avenue Bridge, and 2.1 mi (3.4 km) southeast of Palo Alto Post Office.

DRAINAGE AREA.--7.24 mi² (18.75 km²).

PERIOD OF RECORD.--July 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is 22.07 ft (6.727 m) above mean sea level. Prior to Sept. 25, 1958, at site 150 ft (46 m) downstream at different datum.

AVERAGE DISCHARGE.--22 years, 1.86 ft³/s (0.0527 m³/s), 1,350 acre-ft/yr (1.66 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 570 ft³/s (16.1 m³/s) Jan. 3 (gage height, 3.97 ft or 1.210 m), from rating curve extended as explained below; minimum daily, 0.14 ft³/s (0.004 m³/s) Oct. 13.
Period of record: Maximum discharge, 1,100 ft³/s (31.2 m³/s) Feb. 27, 1973 (gage height, 5.57 ft or 1.698 m), from rating curve extended above 150 ft³/s (4.25 m³/s) on basis of step-backwater computations at gage heights 3.68 ft (1.122 m) and 5.33 ft (1.625 m); maximum gage height, 9.88 ft (3.011 m) Dec. 23, 1955, site and datum then in use (backwater from culvert); no flow at times.

REMARKS.--Records good except those above 200 ft³/s (5.66 m³/s), which are fair. No regulation or diversion above station.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.18	.33	57	5.7	1.9	31	58	.72	1.1	.48	.29	.66
2	.19	.29	5.3	2.5	.83	38	13	.71	1.0	.43	.28	.59
3	.21	.29	2.6	114	.77	25	4.5	.76	.63	.34	.28	.32
4	.20	.33	1.8	34	.77	5.1	3.1	.73	.55	.29	.47	.27
5	.21	17	1.3	9.9	.74	3.0	2.5	.77	.63	.31	.36	.28
6	.17	15	.93	11	.67	2.5	2.2	.85	.52	.29	.22	.41
7	12	.47	.77	18	.67	6.1	1.9	.80	.47	.24	.21	.63
8	5.6	.37	.74	7.4	.67	3.2	2.0	.70	.52	.31	.25	.68
9	.46	1.6	.61	4.5	.67	2.2	5.2	.67	.57	.23	.27	.40
10	.17	1.3	.55	3.7	.67	2.0	1.7	.60	.51	.22	.36	.26
11	.19	4.8	5.3	3.5	.67	1.7	1.5	.59	.45	.40	.74	.30
12	.19	23	.94	2.9	2.5	1.7	1.4	.52	.46	.53	.46	.31
13	.14	1.2	1.5	2.6	.82	1.4	1.3	.51	.51	.28	.28	.33
14	.20	.48	.63	2.5	.64	1.4	1.2	1.2	.46	.41	.28	.30
15	.21	.26	.52	2.3	.59	1.3	1.0	1.0	.50	.23	.27	.26
16	.19	12	.51	12	2.4	1.3	.91	.60	.47	.22	.26	.25
17	.18	23	1.3	3.9	.68	1.2	.93	.51	.44	.26	.40	.28
18	.18	6.5	.44	4.1	.59	1.2	.87	1.7	1.7	.25	.92	.28
19	.20	1.5	.41	3.1	6.8	1.1	.84	1.0	.69	.27	.42	.25
20	.20	1.5	.35	2.5	.95	.91	.97	.65	.50	.30	.27	.27
21	.18	.85	14	2.2	1.1	.76	.87	.49	.59	.23	.36	.51
22	13	3.2	5.1	1.8	.72	.72	1.0	.54	.58	.25	.34	.40
23	2.0	.63	1.8	1.8	.77	.80	2.1	.55	.35	.23	.35	.24
24	.33	.34	1.2	1.7	.81	.80	3.1	.55	.29	.27	.44	.19
25	.33	.44	.87	1.6	.71	6.2	.84	.96	.23	.30	.58	.23
26	.33	.30	15	1.6	.71	1.1	2.4	1.3	.29	.32	.44	.19
27	.33	.18	56	1.4	.65	11	.72	1.2	.32	.23	.33	.21
28	.33	.18	11	1.3	10	22	.67	.61	.36	.22	.33	.60
29	.33	.21	4.4	1.3	-----	3.7	.60	.44	.32	.24	.25	.56
30	.33	60	2.9	1.3	-----	14	.68	.50	.35	.22	.47	.33
31	.33	-----	8.0	2.4	-----	2.9	-----	.58	-----	.31	.33	-----
TOTAL	79.09	177.55	203.77	268.5	40.47	195.29	118.00	23.31	16.36	9.11	11.51	10.79
MEAN	1.26	5.92	6.57	8.66	1.45	6.30	3.93	.75	.55	.29	.37	.36
MAX	13	60	57	114	10	38	58	1.7	1.7	.53	.92	.68
MIN	.14	.18	.35	1.3	.59	.72	.60	.44	.23	.22	.21	.19
AC-FT	78	352	404	533	80	387	234	46	32	18	23	21

CAL YR 1973 TOTAL 2,138.31 MEAN 5.86 MAX 214 MIN .05 AC-FT 4,240
WTR YR 1974 TOTAL 1,113.75 MEAN 3.05 MAX 114 MIN .14 AC-FT 2,210

PEAK DISCHARGE (BASE, 200 FT³/S).--Nov. 30 (2400) 358 ft³/s (3.05 ft); Jan. 3 (1630) 570 ft³/s (3.97 ft).

STEVENS CREEK BASIN

11166480 STEVENS CREEK RESERVOIR NEAR MONTE VISTA, CALIF.

LOCATION.--Lat 37°17'55", long 122°04'34", in NW¼ sec.27, T.7 S., R.2 W., Santa Clara County, at center of dam on Stevens Creek, 2.0 mi (3.2 km) southwest of Monte Vista.

DRAINAGE AREA.--17.3 mi² (44.8 km²).

PERIOD OF RECORD.--December 1935 to current year. Monthly contents prior to October 1959 published in WSP 1735.

GAGE.--Nonrecording gage read once daily. Datum of gage is at mean sea level (levels by Santa Clara Valley Water District).

EXTREMES (at 0800).--Current year: Maximum contents observed, 3,880 acre-ft (4.78 hm³) Mar. 1 (elevation, 537.86 ft or 163.940 m); minimum observed, 916 acre-ft (1.13 hm³) Sept. 30 (elevation, 494.88 ft or 150.839 m).
Period of record: Maximum contents observed, 4,100 acre-ft (5.06 hm³) Dec. 26, 1955 (elevation, 538.61 ft or 164.168 m); maximum elevation, 539.70 ft (164.501 m) Mar. 16, 1967; no contents at times in most years.

REMARKS.--Reservoir is formed by earthfill dam completed in 1936. Capacity, 3,600 acre-ft (4.44 hm³) between elevations 444.9 ft (135.61 m), invert of outlet tunnel and 534.8 ft (163.01 m), crest of spillway. Water released down Stevens Creek for irrigation and ground-water recharge by percolation.

COOPERATION.--Record of contents furnished by Santa Clara Valley Water District.

REVISIONS (WATER YEARS).--WRD Calif. 1970: 1969.

MONTHEND CONTENTS, IN ACRE-FEET (INCLUDING MOMENTARY
STORAGE ABOVE SPILLWAY CREST), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Contents
Sept. 30, 1973.....	1,520
Oct. 31.....	1,160
Nov. 30.....	2,080
Dec. 31.....	3,550
Jan. 31, 1974.....	3,520
Feb. 28.....	3,670
Mar. 31.....	3,620
Apr. 30.....	3,550
May 31.....	3,450
June 30.....	3,140
July 31.....	2,250
Aug. 31.....	1,340
Sept. 30.....	906

NOTE.--Contents at 0800 on first day of following month.

RESERVOIRS IN GUADALUPE RIVER BASIN, CALIF.

11166670 ALMADEN RESERVOIR.--Lat 37°09'54", long 121°49'39", in San Vicente Grant, Santa Clara County, at center of dam on Alamitos Creek, 0.7 mi (1.1 km) southwest of New Almaden, and 7 mi (11 km) south of Edenvale. Drainage area, 11.9 mi² (30.8 km²). Period of record, January 1936 to current year. Monthly contents prior to October 1959, published in WSP 1735. Nonrecording gage read once daily. Datum of gage is at mean sea level (levels by Santa Clara Valley Water District). Extremes for current year: Maximum contents observed, 1,830 acre-ft (2.26 hm³) Mar. 2 (elevation, 607.83 ft or 185.267 m); minimum observed, 96 acre-ft (118,000 m³) Oct. 1 (elevation, 549.54 ft or 167.500 m). Extremes for period of record: Maximum contents observed, 2,150 acre-ft (2.65 hm³) Jan. 31, 1963 (elevation 610.24 ft or 186.001 m, from floodmarks); no contents at times in each year except 1942-43, 1962-63, 1966, 1968-70, 1973-74.

Reservoir is formed by earthfill dam completed in 1936. Capacity, 1,780 acre-ft (2.19 hm³) between elevations 533.1 ft (162.49 m), invert of outlet tunnel and 606.9 ft (184.98 m), crest of spillway. Water released down Alamitos Creek for ground-water recharge by percolation and minor irrigation. Up to 100 ft³/s (2.83 m³/s) diverted to Calero Reservoir at times. Record of contents furnished by Santa Clara Valley Water District.

11166740 CALERO RESERVOIR.--Lat 37°11'00", long 121°47'28", in San Vicente Grant, Santa Clara County, at center of dam on Arroyo Calero, 1.7 mi (2.7 km) northeast of New Almaden, and 6 mi (10 km) southeast of Edenvale. Drainage area, 6.96 mi² (18.03 km²). Period of record, January 1936 to current year. Monthly contents prior to October 1959, published in WSP 1735. Nonrecording gage read once daily. Datum of gage is at mean sea level (levels by Santa Clara Valley Water District). Extremes for current year: Maximum contents observed, 10,100 acre-ft (12.5 hm³) Apr. 15 (elevation, 483.31 ft or 147.313 m); minimum observed, 3,830 acre-ft (4.72 hm³) Nov. 5 (elevation, 459.25 ft or 139.979 m). Extremes for period of record: Maximum contents observed, 10,520 acre-ft (13.0 hm³) Apr. 7, 1967 (elevation, 485.21 ft or 147.892 m); no contents at times in each year except 1942-45, 1963-74.

Reservoir is formed by earthfill dam completed to crest elevation 482.55 ft (147.081 m) in 1936 and raised to 483.5 ft (147.37 m) in 1962. Capacity, 10,160 acre-ft (12.5 hm³) between elevations 393.7 ft (120.00 m), center of outlet tunnel and 483.5 ft (147.37 m), crest of spillway. Water released down Arroyo Calero for ground-water recharge by percolation and minor irrigation. Up to 100 ft³/s (2.83 m³/s) diverted from Almaden Reservoir to Calero Reservoir at times. Record of contents furnished by Santa Clara Valley Water District.

11167370 GUADALUPE RESERVOIR.--Lat 37°11'57", long 121°52'42", in Los Capitancillos Grant, Santa Clara County, at center of dam on Guadalupe Creek, 3.6 mi (5.8 km) northwest of New Almaden, and 5.0 mi (8.0 km) southeast of Los Gatos. Drainage area, 5.97 mi² (15.5 km²). Period of record, January 1936 to current year. Monthly contents prior to October 1959, published in WSP 1735. Nonrecording gage read once daily. Datum of gage is at mean sea level (levels by Santa Clara Valley Water District). Extremes for current year: Maximum contents observed, 3,750 acre-ft (4.62 hm³) Apr. 4 (elevation, 617.38 ft or 188.177 m); minimum observed, 1,230 acre-ft (1.52 hm³) Sept. 30 (elevation, 575.11 ft or 175.294 m). Extremes for period of record: Maximum contents observed, 3,750 acre-ft (4.62 hm³) Apr. 4, 1974 (elevation, 617.38 ft or 188.177 m); maximum elevation, 619.26 ft (188.750 m) Feb. 1, 1963, from floodmarks; no contents at times in each year except 1941-43, 1962-63, 1966-67, 1974.

Reservoir is formed by earthfill dam completed in 1936. Capacity, 3,740 acre-ft (4.61 hm³) between elevations 506.8 ft (154.47 m), invert of outlet tunnel and 617.3 ft (188.15 m), crest of spillway. Water released down Guadalupe Creek for irrigation and ground-water recharge by percolation. Record of contents furnished by Santa Clara Valley Water District.

11167950 LAKE ELSMAN.--Lat 37°07'51", long 121°55'47", in SE¼ sec.23, T.9 S., R.1 W., Santa Clara County, at center of Austrian Dam on Los Gatos Creek, and 7.3 mi (11.7 km) southeast of Los Gatos. Drainage area, 9.79 mi² (25.4 km²). Period of record, February 1951 to current year. Monthly contents prior to October 1959, published in WSP 1735. Nonrecording gage read once daily. Datum of gage is at mean sea level (levels by San Jose Water Works). Extremes for current year: Maximum contents observed, 6,360 acre-ft (7.84 hm³) Mar. 31 (elevation, 1,112.9 ft or 339.21 m); minimum observed, 101 acre-ft (125,000 m³) Oct. 31 (elevation, 996.2 ft or 303.64 m). Extremes for period of record: Maximum contents observed, 6,640 acre-ft (8.19 hm³) Jan. 31, 1963 (elevation, 1,115.1 ft or 339.88 m); no contents Nov. 30, 1968, Nov. 5, 1969, Oct. 31, 1972.

Reservoir is formed by earthfill dam completed in 1951; topped by a 2-foot (0.6-m) inflatable surcharge dam since 1956. Usable capacity, 6,280 acre-ft (7.74 hm³) between elevations 944 ft (287.7 m), elevation of outlet gates and 1,112 ft (338.9 m), top of 2-foot (0.6-m) inflatable surcharge dam. Dead storage, 60 acre-ft (74,000 m³). Water released down Los Gatos Creek for domestic and industrial use. Record of contents furnished by San Jose Water Works.

11167980 LEXINGTON RESERVOIR.--Lat 37°12'06", long 121°59'17", in SE¼ sec.29, T.8 S., R.1 W., Santa Clara County, at center of dam on Los Gatos Creek, and 1.7 mi (2.7 km) south of Los Gatos. Drainage area, 37.0 mi² (95.8 km²). Period of record, December 1952 to current year. Monthly contents prior to October 1959, published in WSP 1735. Nonrecording gage read once daily. Datum of gage is at mean sea level (levels by Santa Clara Valley Water District). Extremes for current year: Maximum contents observed, 20,590 acre-ft (25.4 hm³) Apr. 2 (elevation, 650.84 ft or 198.376 m); minimum observed, 5,890 acre-ft (7.26 hm³) Sept. 30 (elevation, 600.07 ft or 182.901 m). Extremes for period of record: Maximum contents observed, 23,190 acre-ft (28.6 hm³) Mar. 16, 1967 (elevation, 654.00 ft or 199.339 m); no contents at times in each year except 1963, 1966-74.

Reservoir is formed by earthfill dam completed in 1952. Capacity, 20,210 acre-ft (24.9 hm³) between elevations 519 ft (158.2 m), invert at outlet tunnel and 649.9 ft (198.09 m), crest of spillway. Dead storage, 31 acre-ft (38,000 m³). Water released down Los Gatos Creek for irrigation and ground-water recharge by percolation. Record of contents furnished by Santa Clara Valley Water District.

MONTHEND CONTENTS, IN ACRE-FEET (INCLUDING MOMENTARY
STORAGE ABOVE SPILLWAY CREST), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.

Date	Almaden Reservoir a	Calero Reservoir a	Guadalupe Reservoir a	Lake Elsmar b	Lexington Reservoir a
Sept. 30, 1973.....	96	4,580	1,920	445	14,060
Oct. 31.....	105	3,890	1,550	101	13,210
Nov. 30.....	978	4,330	1,940	743	14,450
Dec. 31.....	1,030	5,530	2,310	2,260	15,120
Jan. 31, 1974.....	709	9,210	3,180	5,160	17,340
Feb. 28.....	1,800	9,410	3,360	5,730	18,330
Mar. 31.....	1,700	10,030	3,680	6,360	20,470
Apr. 30.....	1,650	10,050	3,730	6,290	20,150
May 31.....	1,720	9,300	3,560	6,000	18,610
June 30.....	1,390	8,370	3,070	5,130	15,680
July 31.....	887	7,290	2,300	3,980	12,430
Aug. 31.....	341	6,500	1,780	2,810	8,430
Sept. 30.....	302	5,700	1,220	1,560	5,820

a Contents at 0800 on first day of following month.

b Contents at 0800 on last day of month.

11167700 ROSS CREEK BELOW JARVIS ROAD, AT SAN JOSE, CALIF.

LOCATION.--Lat 37°15'48", long 121°53'08", in San Juan Bautista Grant, Santa Clara County, on right bank at south city limits of San Jose, 100 ft (30 m) upstream from Cherry Avenue, 1,400 ft (427 m) downstream from Jarvis Road bridge, and 0.5 mi (0.8 km) upstream from mouth.

DRAINAGE AREA.--7.64 mi² (19.79 km²).

PERIOD OF RECORD.--October 1972 to September 1974 (discontinued). September 1956 to September 1972 in files of Santa Clara Valley Water District.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 165 ft (50 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 617 ft³/s (17.5 m³/s) Nov. 30 (gage height, 6.74 ft or 2.054 m, from peak-stage indicator); no flow at times.

Period of record: Maximum discharge, 617 ft³/s (17.5 m³/s) Nov. 30, 1973 (gage height, 6.74 ft or 2.054 m, from peak-stage indicator); no flow at times in each year.

REMARKS.--Records good. Water imported from South Bay Aqueduct and released into creek 3.4 mi (5.5 km) above station totaled 1,500 acre-ft (1.85 hm³) for the current year. During periods of high flows, no water imported. Records of chemical analyses and sediment discharge for the current year are published in Part 2 of this report.

COOPERATION.--Eight discharge measurements furnished by Santa Clara Valley Water District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.8	60	2.8	.88	80	12	.25	.12	.90	0	1.2
2	1.4	2.3	20	2.0	.66	26	2.5	1.2	.43	.87	0	1.2
3	1.6	2.1	5.0	84	.60	28	1.3	1.2	.54	1.1	.48	1.2
4	1.6	2.3	1.0	14	.60	5.1	.80	1.1	.38	.75	.86	1.1
5	1.6	6.3	0	8.3	.60	2.9	.54	.96	.43	.76	.93	1.3
6	1.6	3.9	.96	5.5	.60	2.0	.15	1.1	.66	.77	1.1	1.3
7	8.0	.02	2.1	12	.48	12	0	.73	.48	.65	1.0	1.1
8	5.0	1.2	2.0	2.4	.66	2.9	.05	.66	.50	.53	.93	1.1
9	1.6	2.1	1.8	1.5	.54	1.1	7.0	.60	.46	.67	1.2	1.2
10	1.6	1.4	1.8	.88	.88	.69	0	.54	.62	.46	1.0	1.3
11	1.6	14	5.1	.60	1.2	.34	0	.66	.38	.99	1.1	1.1
12	1.6	31	1.7	.21	3.4	.38	.66	.38	.39	.72	1.1	1.1
13	1.6	7.9	9.0	0	1.2	.03	1.2	.33	.42	.76	.84	1.0
14	1.6	3.0	1.8	0	.88	.07	.60	.29	2.2	.60	1.0	1.1
15	1.6	1.2	1.7	0	.80	0	1.6	.33	.53	.76	.94	.98
16	1.6	17	1.5	15	1.2	0	1.5	.38	2.2	.61	.98	.97
17	1.6	30	1.5	10	.73	0	1.6	.25	.24	.67	.92	.86
18	1.6	3.2	1.4	1.1	.80	0	1.6	.21	1.6	.72	.93	1.1
19	1.6	.02	1.4	1.1	5.3	0	1.5	.18	.09	.57	.94	.63
20	1.6	1.0	1.3	.33	.73	.18	1.5	.29	.92	.53	1.2	0
21	1.6	1.0	20	.01	.80	.78	1.3	.09	1.1	.60	.97	.58
22	15	1.0	3.0	.60	.09	.87	1.2	.33	1.0	.54	1.2	1.4
23	3.0	.50	1.7	1.5	0	1.1	8.0	.25	.99	.67	.99	1.2
24	1.7	.20	1.4	1.5	0	.96	9.0	.25	.85	.54	1.3	1.1
25	1.7	1.0	1.5	1.3	0	7.4	.96	.48	1.2	.88	.66	1.1
26	1.5	1.0	9.0	1.2	0	9.8	.60	.15	1.1	.67	0	.92
27	1.7	1.0	14	1.2	0	18	.54	.29	2.4	.61	0	.94
28	1.7	1.0	2.0	1.1	35	36	.48	.21	0	.74	.30	.92
29	1.5	.20	0	.96	-----	2.5	.29	.29	.81	.55	1.3	.68
30	1.7	135	.30	.88	-----	15	.09	.09	.77	0	0	.83
31	1.7	-----	7.9	4.0	-----	2.2	-----	.18	-----	0	.93	-----
TOTAL	74.0	273.64	181.86	175.97	58.63	256.30	58.56	14.25	23.81	20.19	25.10	30.51
MFAN	2.39	9.12	5.87	5.68	2.09	8.27	1.95	.46	.79	.65	.81	1.02
MAX	15	135	60	84	35	80	12	1.2	2.4	1.1	1.3	1.4
MIN	1.2	.02	0	0	0	0	0	.09	0	0	0	0
AC-FT	147	543	361	349	116	508	116	28	47	40	50	61

CAL YR 1973 TOTAL 2,132.35 MEAN 5.84 MAX 167 MIN 0 AC-FT 4,230
WTR YR 1974 TOTAL 1,192.82 MEAN 3.27 MAX 135 MIN 0 AC-FT 2,370

PEAK DISCHARGE (BASE, 300 FT³/S).--Nov. 30 (1900) 617 ft³/s (6.74 ft); Jan. 3 (1645) 370 ft³/s (5.88 ft).

NOTE.--No gage-height record Nov. 20 to Dec. 5.

11169000 GUADALUPE RIVER AT SAN JOSE, CALIF.

LOCATION.--Lat 37°20'04", long 121°53'54", Santa Clara County, on right bank at San Jose, 100 ft (30 km) downstream from Los Gatos Creek.

DRAINAGE AREA.--144 mi² (373 km²).

PERIOD OF RECORD.--October 1929 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to 1945, published as Guadalupe Creek at San Jose.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 72.00 ft (21.946 m) above mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum discharge, 3,220 ft³/s (91.2 m³/s) Dec. 1 (gage height, 6.76 ft or 2.060 m); minimum daily, 0.26 ft³/s (0.007 m³/s), Oct. 1-3.

Period of record: Maximum discharge, 9,150 ft³/s (259 m³/s) Apr. 2, 1958 (gage height, 16.55 ft or 5.044 m); no flow many days in most years.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Flow regulated by Lexington Reservoir 12 mi (19 km) upstream and Calero, Almaden, Guadalupe Reservoirs, and Lake Elsmar given elsewhere in this report, with water released during summer for percolation in spreading basins on tributaries. During current year, 18,280 acre-ft (22.5 hm³) was diverted by San Jose Water Works for urban use and 2,780 acre-ft (3.43 hm³) was diverted into Alamos percolation ponds from Coyote Creek basin.

REVISIONS (WATER YEARS).--WSP 1315-B: 1943(M), 1945(M), 1949(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.26	4.1	1,020	32	13	911	575	22	1.2	1.1	3.0	.58
2	.26	3.2	98	7.0	5.3	1,550	514	23	.90	1.2	1.8	.58
3	.26	2.5	35	679	4.0	1,390	392	22	.78	1.2	1.5	3.0
4	.60	1.9	19	513	3.4	733	316	15	1.1	1.1	1.6	.68
5	1.0	50	14	115	2.7	502	243	8.9	6.0	1.1	1.3	.78
6	.25	36	5.6	93	2.0	396	210	6.0	6.8	1.2	1.4	.78
7	.70	19	3.0	145	1.5	351	200	4.6	6.0	1.2	1.8	.78
8	.40	11	2.5	87	2.3	297	183	4.4	6.0	1.1	3.0	.90
9	.20	5.4	3.7	26	3.6	238	210	2.8	5.3	3.2	5.1	.68
10	10	13	7.2	6.2	2.9	200	117	2.3	3.2	3.5	1.9	.68
11	5.4	45	19	9.1	2.7	182	82	1.5	5.1	2.8	1.2	.68
12	2.4	200	9.1	17	15	176	54	1.4	5.3	.78	1.4	1.1
13	2.6	30	33	16	9.0	157	55	1.1	3.7	.78	1.4	1.4
14	2.8	9.0	14	15	2.9	142	62	1.2	4.2	1.0	1.2	.78
15	3.0	5.6	20	17	2.3	105	58	1.1	3.2	.75	1.2	.90
16	3.4	78	19	110	7.6	87	60	1.9	1.1	.91	.90	.90
17	3.7	193	19	163	3.1	71	84	1.5	.68	1.2	.50	.90
18	4.1	86	18	40	1.6	64	74	1.7	1.5	1.1	3.9	.90
19	3.1	21	18	26	43	60	74	1.7	4.0	.90	9.1	.90
20	2.6	15	18	19	4.1	55	41	1.2	1.7	.90	2.2	.68
21	12	12	148	17	9.4	55	36	1.2	1.5	.88	1.8	.58
22	100	12	63	9.4	7.2	55	25	.90	3.5	.77	2.1	.50
23	53	4.4	26	4.5	2.3	55	33	1.1	2.0	1.8	1.2	.90
24	27	2.7	20	6.0	2.2	55	80	1.1	1.4	3.0	.68	.78
25	13	9.3	16	11	2.0	55	14	1.4	1.2	2.2	.68	.68
26	6.6	9.1	39	8.0	1.6	60	17	.78	1.2	4.2	.58	.58
27	2.7	9.5	130	6.4	4.7	200	20	1.1	1.1	2.5	.58	.68
28	3.1	10	41	13	124	500	24	1.7	.78	2.5	.58	.58
29	4.0	11	11	9.4	-----	400	28	1.1	.90	3.0	1.4	.78
30	3.1	630	6.8	8.2	-----	699	25	3.7	1.2	3.7	.78	1.4
31	5.0	-----	14	23	-----	545	-----	3.2	-----	3.5	.58	-----
TOTAL	429.98	1,538.7	1,909.9	2,260.2	285.4	10,336	3,906	142.58	82.54	55.07	56.36	26.04
MEAN	13.9	51.3	61.6	72.9	10.2	333	130	4.60	2.75	1.78	1.82	.87
MAX	100	630	1,020	679	124	1,550	575	23	6.8	4.2	9.1	3.0
MIN	.26	1.9	2.5	4.5	1.5	55	14	.78	.68	.75	.50	.50
AC-FT	453	3,050	3,790	4,480	566	20,500	7,750	283	164	109	112	52

CAL YR 1973 TOTAL 31,902.21 MEAN 47.4 MAX 1,610 MIN .05 AC-FT 63,280
 WTR YR 1974 TOTAL 21,028.77 MEAN 57.6 MAX 1,550 MIN .26 AC-FT 41,710

NOTE.--No gage-height record Oct. 5 to Nov. 14.

11169500 SARATOGA CREEK AT SARATOGA, CALIF.

LOCATION.--Lat 37°15'16", long 122°02'18", in Quito Grant, Santa Clara County, on right bank on upstream side of private road bridge, 0.5 mi (0.8 km) southwest of Saratoga, and 0.7 mi (1.1 km) downstream from diversion dam.

DRAINAGE AREA.--9.22 mi² (23.88 km²).

PERIOD OF RECORD.--October 1933 to current year. Prior to October 1951, published as Campbell Creek at Saratoga.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 500 ft (152 m), from topographic map. Prior to Dec. 6, 1968, at site 40 ft (12 m) downstream at different datum.

AVERAGE DISCHARGE (adjusted for diversion).--41 years, 10.1 ft³/s (0.286 m³/s), 7,320 acre-ft/yr (9.03 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 345 ft³/s (9.77 m³/s) Mar. 1 (gage height, 4.50 ft or 1.372 m); minimum daily, 0.06 ft³/s (0.002 m³/s) Oct. 3, 4.

Period of record: Maximum discharge, 2,730 ft³/s (77.3 m³/s) Dec. 22, 1955 (gage height, 6.40 ft or 1.951 m, site and datum then in use), from rating curve extended above 510 ft³/s (14.4 m³/s) on basis of slope-area measurement of maximum flow; no flow at times.

REMARKS.--Records fair. Water is diverted for municipal use by San Jose Water Works at diversion dam above station.

REVISIONS (WATER YEARS).--WSP 1445: 1940, 1952(M). WSP 1929: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.23	.21	95	16	6.4	278	119	6.7	.22	3.8	.18	.17
2	.07	.20	29	9.7	5.5	163	111	6.5	.38	6.2	.25	.16
3	.06	.18	16	47	4.5	105	76	6.0	.23	4.0	.39	.14
4	.06	.14	7.0	47	3.9	74	57	4.5	.16	2.7	.17	.22
5	.07	2.1	3.9	37	3.4	50	49	4.5	.17	2.8	.25	.13
6	.08	13	2.5	35	2.9	42	40	5.5	.15	2.6	.21	.15
7	1.2	2.6	1.6	40	2.6	60	34	5.7	.22	2.6	.15	.16
8	1.1	.93	.44	33	2.2	46	33	4.1	.12	3.2	.27	1.1
9	1.0	.48	.34	27	2.1	36	33	4.2	.20	4.0	.22	2.8
10	.54	1.1	.11	27	1.7	32	26	3.5	.28	3.6	.21	2.5
11	.21	10	1.5	25	1.4	29	22	3.4	.72	2.4	.23	2.3
12	.15	42	2.0	23	5.3	28	20	3.3	.18	.33	.23	2.0
13	.17	10	2.5	27	8.2	25	19	3.1	1.1	.58	.24	3.1
14	.17	5.9	1.5	28	2.4	23	18	3.5	.34	1.5	.17	3.5
15	.20	2.3	1.5	25	2.3	25	16	3.1	.45	.17	1.1	2.2
16	.24	18	1.5	41	2.0	22	15	3.0	.59	1.1	1.9	2.2
17	.25	40	1.5	45	1.7	18	14	2.8	.75	2.5	1.4	1.3
18	.27	29	1.5	41	1.2	17	15	2.8	.88	1.3	1.0	1.7
19	.22	12	1.4	46	12	16	13	2.8	.56	.20	1.5	1.4
20	.13	4.5	1.2	34	5.6	14	12	2.4	.39	.22	.78	1.5
21	.20	2.7	7.0	27	2.3	13	12	1.8	.32	.19	.65	1.6
22	5.8	5.5	5.0	21	2.4	13	11	1.4	.26	.20	.13	1.5
23	5.4	3.9	3.0	19	1.7	12	12	1.2	.39	.15	.19	1.5
24	1.2	1.9	2.0	17	1.4	11	15	1.1	.23	.14	.19	1.9
25	.70	.80	1.5	13	1.1	11	12	.77	.33	.16	.17	1.6
26	.26	.53	3.0	12	1.1	12	11	.89	.26	.37	.22	1.9
27	.18	.51	40	10	.82	25	9.0	.76	.45	.25	.25	1.9
28	.24	.42	30	8.4	27	76	8.5	.69	1.6	.22	.22	1.4
29	.26	.25	24	7.6	-----	47	7.6	.59	.71	.18	.43	2.1
30	.21	68	20	6.5	-----	113	7.2	.36	1.1	.57	.58	2.0
31	.35	-----	16	6.6	-----	66	-----	.48	-----	.36	.15	-----
TOTAL	21.22	279.15	323.49	802.2	115.12	1,502	847.3	91.44	13.74	48.59	14.03	46.13
MEAN	.68	9.31	10.4	25.9	4.11	48.5	28.2	2.95	.46	1.57	.45	1.54
MAX	5.8	68	95	47	27	278	119	6.7	1.6	6.2	1.9	3.5
MIN	.06	.14	.11	6.5	.82	11	7.2	.36	.12	.14	.13	.13
AC-FT	42	554	642	1,590	.228	2,980	1,680	181	27	96	28	91
(a)	45	103	245	274	282	231	293	354	291	91	217	165

CAL YR 1973 TOTAL 6,520.33 MEAN 17.9 MAX 539 MIN .03 AC-FT 12,930
WTR YR 1974 TOTAL 4,104.41 MEAN 11.2 MAX 278 MIN .06 AC-FT 8,140

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-12	0045	3.82	130	3-1	1915	4.50	345
11-17	1415	3.74	113	3-28	0145	3.97	168
11-30	1930	4.32	275	3-30	0300	4.02	181
1-3	1500	4.06	192	4-1	1915	4.01	178

a Diversion, in acre-feet, furnished by San Jose Water Works.

11169580 CALABAZAS CREEK TRIBUTARY AT MT. EDEN ROAD, NEAR SARATOGA, CALIF.

LOCATION.--Lat 37°16'09", long 122°03'36", in NE¼NE¼ sec.3, T.8 S., R.2 W., Santa Clara County, on right bank at upstream side of culvert on Mt. Eden Road, 750 ft (229 m) upstream from mouth, and 1.8 mi (2.9 km) northwest of Saratoga Post Office.

DRAINAGE AREA.--0.37 mi² (0.96 km²).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 600 ft (183 m), from topographic map. Recording rain gage at Garrod Ranch 0.5 mi (0.8 km) north of gage. Altitude of gage is 950 ft (290 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 85 ft³/s (2.41 m³/s) Jan. 3 (gage height, 3.91 ft or 1.192 m); no flow many days.
Period of record: Maximum discharge, 109 ft³/s (3.09 m³/s) Jan. 16, 1973 (gage height, 4.29 ft or 1.308 m); no flow many days in each year.

REMARKS.--Records good. No regulation or diversion above station. Records of chemical analyses, water temperatures, and sediment discharge for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.02	6.6	.36	.13	17	6.2	.06	.03	.01		
2	0	.02	.34	.21	.10	5.8	2.3	.06	.03	.01		
3	0	.01	.23	10	.09	2.7	1.2	.06	.03	.01		
4	0	.01	.16	2.6	.08	.64	1.0	.06	.03	0		
5	0	.01	.16	1.2	.08	.36	.70	.06	.02	0		
6	0	.03	.15	.86	.08	.27	.45	.06	.02	0		
7	0	.03	.13	1.0	.08	1.2	.38	.06	.02	0		
8	0	.03	.13	.51	.08	.43	.25	.06	.02	0		
9	0	.03	.13	.36	.06	.22	.36	.06	.02	0		
10	0	.03	.13	.31	.06	.17	.32	.06	.02	0		
11	0	.13	.18	.24	.06	.16	.32	.05	.02	0		
12	0	.33	.17	.25	.06	.16	.28	.05	.02	0		
13	0	.05	.24	.23	.06	.16	.23	.05	.02	0		
14	0	.03	.17	.23	.05	.16	.19	.05	.02	0		
15	0	.02	.16	.23	.05	.16	.14	.05	.02	0		
16	0	.45	.16	.81	.05	.16	.10	.05	.02	0		
17	0	1.5	.16	.46	.05	.16	.08	.04	.02	0		
18	0	.43	.16	.34	.05	.15	.08	.04	.02	0		
19	0	.10	.15	.33	.11	.13	.08	.04	.02	0		
20	0	.07	.13	.25	.10	.13	.08	.04	.02	0		
21	0	.06	.77	.19	.10	.13	.08	.04	.02	0		
22	.04	.05	.56	.19	.10	.13	.07	.04	.02	0		
23	.04	.04	.32	.16	.10	.13	.06	.04	.02	0		
24	.03	.04	.23	.16	.10	.13	.06	.03	.02	0		
25	.03	.04	.16	.16	.10	.13	.06	.03	.01	0		
26	.03	.04	.33	.16	.10	.13	.06	.03	.01	0		
27	.02	.04	2.6	.15	.10	.61	.06	.03	.01	0		
28	.02	.04	.45	.13	1.5	2.9	.06	.03	.01	0		
29	.02	.04	.26	.13	-----	.33	.06	.03	.01	0		
30	.02	9.7	.18	.13	-----	4.0	.06	.03	.01	0		
31	.02	-----	.28	.13	-----	.42	-----	.03	-----	0		-----
TOTAL	.27	13.42	15.98	22.47	3.68	39.36	15.37	1.42	.58	.03	0	0
MEAN	.009	.45	.52	.72	.13	1.27	.51	.046	.019	.001	0	0
MAX	.04	9.7	6.6	10	1.5	17	6.2	.06	.03	.01	0	0
MIN	0	.01	.13	.13	.05	.13	.06	.03	.01	0	0	0
AC-FT	.5	27	32	45	7.3	78	30	2.8	1.2	.06	0	0
(a)	3.09	9.61	4.57	4.21	2.36	--	1.00	0	0	0	0	0
CAL YR 1973	TOTAL	235.16	MEAN .64	MAX 22	MIN 0	AC-FT 466						
WTR YR 1974	TOTAL	112.58	MEAN .31	MAX 17	MIN 0	AC-FT 223						

PEAK DISCHARGE (BASE, 20 FT³/S)
 DATE TIME G.H. DISCHARGE DATE TIME G.H. DISCHARGE a Precipitation, in inches, at Garrod Ranch gage.
 11-30 2335 3.72 72 3-1 1520 2.94 24
 1-3 1435 3.91 85

CALABAZAS CREEK BASIN

11169600 PROSPECT CREEK AT SARATOGA GOLF COURSE, NEAR SARATOGA, CALIF.

LOCATION.--Lat 37°17'09", long 122°03'14", in NE¼NW¼ sec.35, T.7 S., R.2 W., Santa Clara County, on left bank 60 ft (18 m) upstream from culvert at Saratoga Golf Course, 0.2 mi (0.3 km) downstream from small right-bank tributary, and 2.2 mi (3.5 km) northwest of Saratoga Post Office.

DRAINAGE AREA.--0.27 mi² (0.70 km²).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 600 ft (183 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 31 ft³/s (0.88 m³/s) Nov. 30 (gage height, 4.62 ft or 1.408 m); no flow for several months.

Period of record: Maximum discharge, 42 ft³/s (1.19 m³/s) Jan. 16, 1973 (gage height, 4.76 ft or 1.451 m); no flow for several months in each year.

REMARKS.--Records good. No regulation or diversion above station. Records of chemical analyses, water temperatures, and sediment discharge for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	2.9	.16	.02	3.6	1.3	.02				
2		0	.24	.11	.02	2.5	.92	.02				
3		0	.05	2.5	.01	1.9	.30	.02				
4		0	.04	2.2	.02	.80	.16	.02				
5		0	.02	.92	.02	.42	.07	.02				
6		0	.02	.80	.02	.35	.06	.02				
7		0	.01	1.2	.02	.45	.05	.02				
8		0	.01	.64	.02	.36	.04	.01				
9		0	.02	.43	.02	.28	.05	.01				
10		0	.01	.35	.02	.23	.05	.01				
11		0	.01	.30	.02	.20	.04	.01				
12		0	.01	.29	.02	.18	.04	.01				
13		0	.01	.25	.01	.16	.05	.01				
14		0	.01	.23	.02	.15	.05	0				
15		0	.01	.10	.01	.14	.05	0				
16		0	.03	.11	.01	.14	.04	0				
17		.04	.04	.07	.01	.13	.04	0				
18		.02	.03	.06	.01	.19	.04	0				
19		.01	.03	.06	.02	.25	.04	0				
20		0	.04	.05	.01	.24	.03	0				
21		0	.07	.04	.01	.22	.03	0				
22		0	.10	.04	.01	.23	.03	0				
23		0	.04	.03	.01	.22	.03	0				
24		0	.03	.03	0	.20	.03	0				
25		0	.03	.03	0	.20	.03	0				
26		0	.04	.03	0	.21	.03	0				
27		0	1.8	.03	0	.56	.03	0				
28		0	.63	.02	.29	2.5	.02	0				
29		0	.24	.02	-----	.20	.02	0				
30		1.9	.15	.02	-----	1.0	.02	0				
31		-----	.15	.02	-----	.30	-----	0	-----			-----
TOTAL	0	1.97	6.82	11.14	.65	18.50	3.69	.20	0	0	0	0
MEAN	0	.066	.22	.36	.023	.60	.12	.007	0	0	0	0
MAX	0	1.9	2.9	2.5	.29	3.6	1.3	.02	0	0	0	0
MIN	0	0	.01	.02	0	.13	.02	0	0	0	0	0
AC-FT	0	3.9	14	22	1.3	37	7.3	.4	0	0	0	0
CAL YR 1973	TOTAL	102.20	MEAN .28	MAX 8.4	MIN 0	AC-FT 203						
WTR YR 1974	TOTAL	42.97	MEAN .12	MAX 3.6	MIN 0	AC-FT 85						

PEAK DISCHARGE (BASE, 10 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-30	2340	4.62	31	3-28	0215	4.24	12
1-3	1545	4.33	16				

11169616 CALABAZAS CREEK AT RAINBOW DRIVE, NEAR CUPERTINO, CALIF.

LOCATION.--Lat 37°18'03", long 122°01'32", Santa Clara County, on right bank 100 ft (30 m) upstream from Rainbow Drive, and 1.6 mi (2.6 km) south of Cupertino.

DRAINAGE AREA.--3.98 mi² (10.31 km²).

PERIOD OF RECORD.--October 1973 to September 1974. October 1966 to September 1973 in files of Santa Clara Valley Water District.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 265 ft (81 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 289 ft³/s (8.18 m³/s) Dec. 1 (gage height, 3.55 ft or 1.082 m); no flow many days.

REMARKS.--Records poor. No regulation or diversion above station. Records of chemical analyses, water temperatures, and sediment discharge for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height record and nine discharge measurements furnished by Santa Clara Valley Water District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	4.3	4.4	4.6	2.5	71	24	3.3	3.3	.73	0	1.2
2	3.0	4.3	6.3	3.3	2.2	41	11	3.0	3.3	1.8	.87	1.2
3	3.0	2.0	3.6	52	1.8	28	2.7	3.3	3.3	2.0	2.5	1.2
4	3.0	0	.57	18	2.2	9.1	2.5	3.0	3.0	2.0	2.2	1.0
5	3.0	0	.10	5.8	2.0	3.6	2.2	3.0	2.7	2.0	1.2	1.3
6	3.0	.16	2.4	5.4	1.8	3.0	1.3	3.3	2.7	2.0	0	1.3
7	3.6	0	4.6	6.3	1.5	10	.90	3.3	2.5	2.2	0	1.3
8	4.3	0	4.6	3.3	2.0	3.6	.57	3.6	2.5	2.2	0	1.0
9	3.9	0	4.6	1.5	1.8	2.0	1.5	3.0	2.2	2.2	0	.90
10	3.9	0	4.6	.78	2.2	1.3	.05	3.0	2.2	2.0	0	1.0
11	3.3	1.6	5.4	.32	2.0	1.2	.84	2.7	2.2	2.2	0	1.0
12	3.3	6.2	4.6	.10	2.0	1.2	.78	3.0	1.8	1.8	0	1.2
13	2.0	.19	5.8	0	2.0	.78	3.0	3.9	1.8	2.0	0	.90
14	0	0	5.0	0	2.0	1.5	3.0	3.0	1.8	1.8	0	.78
15	0	0	5.0	0	2.0	1.3	3.0	2.7	1.5	1.8	.54	.78
16	0	.88	4.6	3.6	2.0	1.3	2.5	3.0	1.8	2.0	2.2	.78
17	0	5.8	4.6	.78	1.8	1.2	.40	1.0	1.6	2.0	2.5	.78
18	0	.74	4.6	.32	1.8	1.2	2.7	1.8	1.6	2.5	2.5	.67
19	0	0	4.6	.16	3.0	3.3	4.6	3.9	1.5	1.4	2.5	.67
20	0	0	4.6	0	1.8	5.0	3.9	3.9	1.5	0	2.2	.67
21	0	0	9.9	0	.75	4.6	1.6	3.9	1.8	0	0	.67
22	1.5	0	5.8	.68	0	5.8	2.0	3.9	1.8	0	0	.67
23	.30	0	3.6	2.0	0	5.8	3.9	3.9	1.5	0	.87	.67
24	0	0	3.6	1.8	0	6.3	4.3	3.6	.80	0	2.7	.67
25	0	0	3.3	1.8	0	4.6	4.3	3.6	.80	0	2.7	.67
26	0	0	4.6	1.6	0	.23	3.9	3.9	1.6	0	2.7	.67
27	0	0	21	1.6	0	7.7	5.4	3.9	1.5	0	2.2	.67
28	0	0	2.7	1.5	14	17	3.6	3.9	1.3	0	1.6	.67
29	0	0	.57	1.3	-----	2.5	3.6	3.9	0	0	1.3	.57
30	0	38	2.5	1.6	-----	19	3.3	3.6	0	0	1.3	.57
31	1.6	-----	5.4	2.5	-----	2.7	-----	3.6	-----	0	1.2	-----
TOTAL	45.70	64.17	187.14	122.64	55.15	266.81	107.34	102.4	55.90	36.63	35.78	26.13
MFAN	1.47	2.14	6.04	3.96	1.97	8.61	3.58	3.30	1.86	1.18	1.15	.87
MAX	4.3	38	44	52	14	71	24	3.9	3.3	2.5	2.7	1.3
MIN	0	0	.10	0	0	.23	.05	1.0	0	0	0	.57
AC-FT	91	127	371	243	109	529	213	203	111	73	71	52

WTR YR 1974 TOTAL 1,105.79 MEAN 3.03 MAX 71 MIN 0 AC-FT 2,190

		PEAK DISCHARGE (BASE, 100 FT ³ /S)					
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-1	0010	3.55	289	3-1	1900	2.12	112
1-3	1525	3.51	284				

11169800 COYOTE CREEK NEAR GILROY, CALIF.

LOCATION.--Lat 37°04'40", long 121°29'36", in NE¼SE¼ sec.11, T.10 S., R.4 E., Santa Clara County, on left bank 0.7 mi (1.1 km) downstream from Bear Creek, 5.0 mi (8.0 km) upstream from Coyote Creek Dam, and 6.4 mi (10.3 km) northeast of Gilroy.

DRAINAGE AREA.--109 mi² (282 km²).

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 790 ft (241 m); from topographic map. Prior to Nov. 14, 1963, at site 0.4 mi (0.6 km) downstream at different datum.

AVERAGE DISCHARGE.--14 years, 47.5 ft³/s (1.345 m³/s), 34,410 acre-ft/yr (42.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,330 ft³/s (66.0 m³/s) Mar. 3 (gage height, 8.38 ft or 2.554 m); no flow many days.

Period of record: Maximum discharge, 10,100 ft³/s (286 m³/s) Jan. 31, 1963 (gage height, 12.60 ft or 3.840 m, site and datum then in use), from rating curve extended above 3,200 ft³/s (90.6 m³/s) on basis of slope-area measurement of maximum flow; no flow at times in each year.

REMARKS.--Records good. No regulation or diversion above station. Records of water temperatures and sediment discharge for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	1,030	98	31	1,080	573	25	7.3	2.4	.09	.06
2		0	207	66	28	1,550	884	24	6.9	2.1	.07	.03
3		0	76	62	25	1,500	393	22	6.8	1.7	.05	.01
4		0	44	306	24	679	256	22	6.6	1.6	.06	0
5		0	30	343	22	371	188	21	6.7	1.6	.07	0
6		0	23	486	20	246	147	20	6.3	1.8	.07	0
7		0	18	719	19	244	120	19	5.9	1.5	.08	0
8		0	15	610	18	224	103	16	5.6	1.4	.08	0
9		0	12	326	17	152	109	15	5.1	2.3	.08	0
10		0	11	201	17	123	101	14	4.5	1.8	.09	0
11		0	12	154	16	106	82	13	4.3	2.2	.09	0
12		77	16	169	16	104	71	12	3.9	2.5	.09	0
13		26	14	166	20	87	62	12	3.7	2.1	.09	0
14		77	14	124	16	78	55	11	3.8	1.9	.10	0
15		29	12	98	15	69	51	10	3.5	1.6	.11	0
16		18	10	94	15	63	48	10	3.1	1.5	.10	0
17		177	9.6	391	14	57	45	9.7	3.7	1.2	.10	0
18		216	9.4	270	13	54	45	9.9	3.8	1.1	.10	0
19		62	8.2	189	18	50	44	9.5	4.1	.89	.10	0
20		32	7.5	148	22	46	40	9.3	4.3	.65	.12	0
21		23	12	113	17	43	37	9.3	3.9	.49	.11	0
22		17	67	88	15	40	35	8.8	3.9	.42	.13	0
23		13	40	72	13	38	36	8.5	3.8	.37	.16	0
24		12	28	62	12	36	47	8.2	3.2	.32	.18	0
25		11	22	54	12	38	45	7.7	3.0	.26	.19	0
26		9.3	19	48	11	48	37	7.7	2.8	.22	.18	0
27		7.9	992	42	11	55	34	7.5	2.5	.19	.16	0
28		6.8	565	38	12	353	31	7.2	2.5	.16	.14	0
29		6.1	237	35	-----	201	28	7.4	2.1	.15	.13	0
30		6.9	151	33	-----	365	26	7.3	2.0	.12	.11	0
31		-----	99	31	-----	239	-----	7.3	-----	.10	.08	-----
TOTAL	0	827.0	3,810.7	5,636	489	8,339	3,773	391.3	129.6	36.64	3.31	.10
MFAN	0	27.6	123	182	17.5	269	126	12.6	4.32	1.18	.11	.003
MAX	0	216	1,030	719	31	1,550	884	25	7.3	2.5	.19	.06
MIN	0	0	7.5	31	11	36	26	7.2	2.0	.10	.05	0
AC-FT	0	1,640	7,560	11,180	970	16,540	7,480	776	257	73	6.6	.2
CAL YR 1973	TOTAL	31,822.22	MEAN	87.2	MAX	1,690	MIN	0	AC-FT	63,120		
WTR YR 1974	TOTAL	23,435.65	MEAN	64.2	MAX	1,550	MIN	0	AC-FT	46,480		

PEAK DISCHARGE (BASE, 1,000 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-1	0545	8.32	2,290	3-3	0230	8.38	2,330
12-27	0700	7.30	1,540	4-1	2215	7.64	1,780
3-1	1245	7.83	1,910				

RESERVOIRS IN COYOTE CREEK BASIN, CALIF.

11169850 COYOTE LAKE.--Lat 37°07'06", long 121°32'55", in SE¼ sec.29, T.9 S., R.4 E., Santa Clara County, at center of dam on Coyote Creek, 3.8 mi (6.1 km) northeast of San Martin. Drainage area, 120 mi² (311 km²). Period of record, February 1936 to current year. Monthly contents prior to October 1959, published in WSP 1735. Nonrecording gage read once daily. Datum of gage is at mean sea level (levels by Santa Clara Valley Water District). Extremes for current year: Maximum contents observed, 24,580 acre-ft (30.3 hm³) Mar. 8 (elevation, 778.66 ft or 237.336 m); minimum observed, 14,840 acre-ft (18.3 hm³) Nov. 12 (elevation, 762.20 ft or 232.319 m). Extremes for period of record: Maximum contents observed, 28,120 acre-ft (34.7 hm³) Dec. 8, 1950 (elevation 782.5 ft or 238.51 m); no contents at times.

Reservoir is formed by rock- and earthfill dam completed in 1936. Capacity, 23,700 acre-ft (29.2 hm³) between elevations 693.3 ft (211.32 m), invert of outlet tunnel and 777.2 ft (236.89 m), crest of spillway. Water released down Coyote Creek for storage in Anderson Lake. Record of contents furnished by Santa Clara Valley Water District.

11169920 ANDERSON LAKE.--Lat 37°09'56", long 121°37'42", in southeast corner of La Laguna Seca Grant, Santa Clara County, at center of dam on Coyote Creek, 2.5 mi (4.0 km) northeast of Madrone. Drainage area, 195 mi² (505 km²). Period of record, December 1950 to current year. Monthly contents prior to October 1959, published in WSP 1735. Nonrecording gage read once daily. Datum of gage is at mean sea level (levels by Santa Clara Valley Water District). Extremes for current year: Maximum contents observed, 91,370 acre-ft (113 hm³) Mar. 31 (elevation, 625.07 ft or 190.521 m); minimum observed, 58,480 acre-ft (72.1 hm³) Nov. 5 (elevation, 594.35 ft or 181.158 m). Extremes for period of record: Maximum contents, 95,990 acre-ft (118 hm³) Apr. 3, 1958 (elevation, 628.67 ft or 191.619 m, from floodmarks); no contents at times in 1960-62.

Reservoir is formed by earth- and rockfill dam completed in 1950. Capacity, 91,280 acre-ft (113 hm³) between elevations 439 ft (133.8 m), invert of outlet tunnel and 625.0 ft (190.50 m), crest of spillway. Water released down Coyote Creek for irrigation and ground-water recharge by percolation. Record of contents furnished by Santa Clara Valley Water District.

MONTHEND CONTENTS, IN ACRE-FEET (INCLUDING MOMENTARY
STORAGE ABOVE SPILLWAY CREST), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Coyote Lake	Anderson Lake
Sept. 30, 1973.....	18,820	61,860
Oct. 31.....	15,630	58,840
Nov. 30.....	15,580	58,960
Dec. 31.....	18,040	64,050
Jan. 31, 1974.....	23,720	72,820
Feb. 28.....	23,870	73,980
Mar. 31.....	24,110	91,280
Apr. 30.....	23,780	91,160
May 31.....	23,610	90,030
June 30.....	23,200	86,970
July 31.....	22,630	81,160
Aug. 31.....	21,860	75,410
Sept. 30.....	21,270	70,010

NOTE.--Contents at 0800 on first day of following month.

COYOTE CREEK BASIN

11170000 COYOTE CREEK NEAR MADRONE, CALIF.

LOCATION.--Lat 37°10'06", long 121°38'55", near southeast corner of La Laguna Seca Grant, Santa Clara County, on right bank 1.2 mi (1.9 km) downstream from Anderson Dam, and 1.8 mi (2.9 km) northeast of Madrone.

DRAINAGE AREA.--196 mi² (508 km²).

PERIOD OF RECORD.--October 1902 to September 1912, December 1916 to current year. Records for water years 1917-19 incomplete, yearly estimates published in WSP 1315-B. Published as Coyote River near Madrone 1902-12, 1916-26.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 375 ft (114 m), from topographic map. Prior to Mar. 1, 1950, nonrecording gage and water-stage recorders at various sites within 1.4 mi (2.3 km) upstream at different datums.

AVERAGE DISCHARGE (unadjusted).--68 years, 64.9 ft³/s (1.838 m³/s), 47,020 acre-ft/yr (58.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 985 ft³/s (27.9 m³/s) Apr. 2 (gage height, 4.71 ft or 1.436 m); minimum daily, 11 ft³/s (0.31 m³/s) Mar. 4-6.

Period of record: Maximum discharge, 25,000 ft³/s (708 m³/s) probably Mar. 7, 1911 (record furnished by Duryea, Haehl, and Gilman); no flow at times.

REMARKS.--Records good. Flow regulated by Coyote (see sta 11169880) and Anderson (see sta 11169920) Lakes; water released during summer. Water is diverted to Main Avenue percolation ponds by Santa Clara Valley Water District.

REVISIONS (WATER YEARS).--WSP 1345: 1932, 1935(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	34	13	14	12	12	280	44	36	51	89	87
2	52	36	12	13	12	12	810	37	36	50	89	87
3	49	36	12	14	12	12	461	28	36	65	89	87
4	46	36	12	14	12	11	646	28	36	76	89	86
5	46	33	12	13	12	11	495	28	37	80	86	86
6	46	31	12	13	12	11	397	28	37	89	82	84
7	48	31	12	13	12	12	383	23	37	89	83	79
8	48	30	12	13	12	76	204	20	36	89	84	80
9	46	30	12	13	12	68	83	20	37	89	84	80
10	46	30	12	12	12	19	82	20	36	57	80	82
11	46	31	13	12	12	16	82	20	36	72	82	85
12	48	31	13	12	13	13	93	20	36	89	80	89
13	48	31	13	12	13	13	100	19	37	88	78	93
14	48	31	13	12	12	13	100	19	38	89	78	93
15	48	30	13	12	12	13	87	24	39	89	76	93
16	44	29	13	13	12	13	69	27	40	88	77	87
17	37	29	13	13	12	13	66	27	36	87	77	77
18	37	29	13	12	12	13	43	28	30	92	77	82
19	37	28	13	12	12	13	43	28	30	100	77	87
20	37	26	13	13	12	13	43	28	30	100	76	86
21	37	22	14	13	12	13	43	28	31	100	76	87
22	37	22	14	12	12	13	43	28	30	100	77	87
23	37	22	14	12	12	13	44	27	30	100	77	87
24	37	21	14	12	12	13	45	29	29	100	77	86
25	37	22	14	12	12	14	45	31	28	97	77	85
26	37	22	14	12	12	14	45	31	35	97	78	84
27	37	22	14	12	12	14	45	29	42	97	83	83
28	37	22	14	12	12	68	45	30	50	97	88	82
29	36	22	14	12	-----	216	45	34	50	94	87	83
30	36	20	14	12	-----	251	45	36	50	89	87	81
31	35	-----	14	12	-----	250	-----	36	-----	89	87	-----
TOTAL	1,312	439	405	388	338	1,256	5,412	855	1,091	2,689	2,527	2,555
MEAN	42.3	28.0	13.1	12.5	12.1	40.5	180	27.6	36.4	86.7	81.5	85.2
MAX	52	36	14	14	13	251	861	44	50	100	89	93
MIN	35	20	12	12	12	11	43	19	28	50	76	77
AC-FT	2,600	1,660	803	770	670	2,490	10,730	1,700	2,160	5,330	5,010	5,070
(a)	525	381	85	0	12	59	289	442	538	385	493	694
CAL YR 1973	TOTAL 13,586.0	MEAN 37.2	MAX 76	MIN 9.1	AC-FT 26,950	a 3,790						
WTR YR 1974	TOTAL 19,667.0	MEAN 53.9	MAX 861	MIN 11	AC-FT 39,010	a 3,900						

a Diversion, in acre-feet, to Main Avenue percolation ponds, furnished by Santa Clara Valley Water District.

11172100 UPPER PENITENCIA CREEK AT SAN JOSE, CALIF.

LOCATION.--Lat 37°23'43", long 121°49'38", on north boundary of San Jose Pala Grant, Santa Clara County, on left bank at downstream side of Dorel Drive bridge, 0.1 mi (0.2 km) upstream from Dutard Creek near northeast limits of San Jose.

DRAINAGE AREA.--21.5 mi² (55.7 km²).

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Concrete control since Sept. 12, 1963. Datum of gage is 265.30 ft (80.863 m) above mean sea level. Prior to Aug. 3, 1962, at site 0.4 mi (0.6 km) downstream at different datum.

AVERAGE DISCHARGE.--13 years, 5.29 ft³/s (0.150 m³/s), 3,830 acre-ft/yr (4.72 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 651 ft³/s (18.4 m³/s) Apr. 1 (gage height, 5.32 ft or 1.622 m); minimum daily, 0.08 ft³/s (0.002 m³/s) Sept. 9, 11, 12.

Period of record: Maximum discharge, 1,500 ft³/s (42.5 m³/s) Jan. 21, 1967 (gage height, 6.24 ft or 1.902 m in gage well, 7.8 ft or 2.38 m, from outside gage), from rating curve extended above 270 ft³/s (7.65 m³/s) on basis of slope-area measurement of maximum flow; no flow at times in some years.

Maximum discharge known since at least 1935, 2,100 ft³/s (59.5 m³/s) Apr. 2, 1958, from information furnished by Santa Clara Valley Water District.

REMARKS.--Records fair. Flow partly regulated by Cherry Flat Reservoir 5 mi (8 km) upstream, capacity, 500 acre-ft (616,000 m³).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.36	.52	35	23	5.9	11	207	5.2	1.4	.89	.24	.23
2	.31	.52	13	17	5.1	56	189	4.9	1.3	.58	.24	.27
3	.33	.52	7.2	19	4.8	56	68	4.5	1.3	.59	.20	.23
4	.27	.52	4.8	103	4.8	33	42	4.2	1.3	.59	.25	.17
5	.39	.80	3.3	52	4.4	24	31	4.1	1.1	.53	.20	.20
6	.37	1.4	2.5	41	3.9	19	24	4.0	2.7	.51	.20	.14
7	1.6	.88	1.9	50	3.5	19	19	3.8	1.3	.57	.28	.12
8	1.0	.72	1.7	46	3.2	18	17	3.5	1.5	.66	.43	.10
9	.56	.65	1.5	30	3.1	13	26	3.3	1.5	.89	.35	.08
10	.65	.46	1.4	23	3.1	11	21	3.1	1.3	.84	.23	.12
11	.64	.72	1.6	18	2.9	9.6	16	2.8	.93	.77	.22	.08
12	.63	2.2	1.7	16	3.5	9.3	14	2.7	.91	.71	.26	.08
13	.60	1.5	1.4	13	5.8	8.0	12	2.6	.99	.63	.22	.12
14	.62	1.2	1.5	11	4.2	7.4	10	2.5	.94	.60	.16	.12
15	.57	.98	1.3	10	3.7	6.8	9.6	2.4	.91	.54	.24	.12
16	.56	1.2	1.2	12	3.8	6.5	8.4	2.3	.94	.49	.36	.14
17	.37	1.8	1.2	22	3.7	6.1	7.8	2.3	1.1	.43	.19	.14
18	1.0	2.9	1.2	21	3.4	5.8	8.9	2.2	1.1	.37	.20	.14
19	.68	2.4	1.2	26	8.0	5.5	9.2	2.2	1.1	.38	.22	.17
20	.69	1.8	1.1	25	6.1	5.1	7.2	2.2	1.1	.40	.17	.31
21	.75	1.8	2.2	21	4.9	4.8	6.4	1.9	1.0	.37	.17	.65
22	.98	1.8	10	17	4.6	4.7	6.0	2.0	.98	.33	.14	.97
23	1.1	1.7	5.1	14	4.1	4.5	9.8	1.9	.98	.23	.12	1.0
24	.80	1.4	3.6	12	3.9	4.5	19	1.9	1.1	.25	.14	1.6
25	.88	1.5	3.1	10	3.7	7.0	11	1.8	1.0	.25	.20	1.7
26	.88	1.4	6.0	9.0	3.5	8.1	8.2	1.8	.98	.21	.20	.81
27	.72	1.3	203	7.7	3.7	8.7	7.2	1.7	.98	.22	.20	.37
28	.72	1.3	80	6.9	3.9	29	6.5	1.6	.93	.25	.17	.32
29	.58	1.2	57	6.4	-----	18	5.8	1.5	.89	.30	.20	.23
30	.58	2.1	39	5.9	-----	17	5.4	1.4	.89	.28	.23	.18
31	.52	-----	26	5.7	-----	14	-----	1.4	-----	.23	.20	-----
TOTAL	20.71	39.19	520.7	693.6	119.2	450.4	832.4	83.7	34.45	14.89	6.83	10.91
MEAN	.67	1.31	16.8	22.4	4.26	14.5	27.7	2.70	1.15	.48	.22	.36
MAX	1.6	2.9	203	103	8.0	56	207	5.2	2.7	.89	.43	1.7
MIN	.27	.46	1.1	5.7	2.9	4.5	5.4	1.4	.89	.21	.12	.08
AC-FT	41	78	1,030	1,380	236	893	1,650	166	68	30	14	22

CAL YR 1973 TOTAL 5,540.97 MEAN 15.3 MAX 213 MIN .01 AC-FT 11,070
 WTR YR 1974 TOTAL 2,826.98 MEAN 7.75 MAX 207 MIN .08 AC-FT 5,610

PEAK DISCHARGE (BASE, 90 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-27	0400	4.99	450	3-2	0030	4.06	112
1-4	0445	4.22	153	4-1	2000	5.32	651

ALAMEDA CREEK BASIN

11173200 ARROYO HONDO NEAR SAN JOSE, CALIF.

LOCATION.--Lat 37°27'42", long 121°46'06", in NE&NE¼ sec.32, T.5 S., R.2 E., Santa Clara County, on right bank 150 ft (46 m) upstream from road bridge, 3.5 mi (5.6 km) southeast of Calaveras Dam, 3.5 mi (5.6 km) northeast of city limits of San Jose.

DRAINAGE AREA.--77.1 mi² (199.7 km²).

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 783.86 ft (238.921 m) above mean sea level.

AVERAGE DISCHARGE.--6 years, 55.8 ft³/s (1.580 m³/s), 40,430 acre-ft/yr (49.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,310 ft³/s (93.7 m³/s) Apr. 1 (gage height, 9.92 ft or 3.024 m); minimum daily, 0.44 ft³/s (0.012 m³/s) Sept. 30.

Period of record: Maximum discharge, 4,620 ft³/s (131 m³/s) Jan. 26, 1969 (gage height, 10.94 ft or 3.335 m); minimum daily, 0.11 ft³/s (0.003 m³/s) July 28-30, 1972.

REMARKS.--Records good. No regulation or diversion above station.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	3.3	1,190	172	47	621	1,150	43	14	5.6	2.5	1.3
2	1.8	3.3	275	122	43	1,000	1,260	40	13	5.6	2.3	1.3
3	1.7	3.3	118	109	39	598	451	38	13	5.6	2.2	1.3
4	1.7	3.4	77	143	37	366	265	36	13	5.5	2.3	1.4
5	1.6	4.0	56	133	34	233	186	35	12	5.1	2.1	1.2
6	1.6	3.3	42	150	31	173	145	34	12	5.1	2.0	1.1
7	2.6	41	33	280	29	154	118	32	11	5.1	1.9	.97
8	7.9	14	29	380	28	168	103	30	10	5.6	1.8	.90
9	7.3	8.7	24	271	27	117	137	28	9.9	7.9	1.7	.88
10	5.2	7.6	22	197	26	99	171	26	9.8	9.7	1.7	.80
11	4.2	7.4	24	180	25	87	117	25	9.6	8.1	1.8	.69
12	3.7	216	34	333	26	84	98	23	9.2	7.0	1.8	.64
13	3.3	68	29	320	33	77	85	23	9.1	6.4	1.8	.71
14	3.1	61	34	245	28	67	76	23	9.3	5.8	1.8	.71
15	3.0	32	29	212	26	60	69	22	9.2	5.3	1.9	.72
16	3.5	26	25	177	25	56	64	22	9.2	4.9	1.9	.68
17	3.2	129	24	423	24	52	60	21	9.9	4.7	1.9	.64
18	2.9	242	26	288	23	48	62	21	10	4.6	2.0	.61
19	2.8	96	23	233	43	45	65	21	11	4.3	1.9	.68
20	2.7	51	21	199	51	42	55	21	10	4.2	1.9	.72
21	2.7	49	29	155	36	38	49	20	9.2	3.8	1.7	.67
22	3.1	34	204	124	32	36	46	19	8.4	3.5	1.5	.60
23	6.1	26	100	104	28	35	50	18	7.7	3.3	1.4	.57
24	8.9	23	72	90	26	33	89	18	7.1	3.1	1.4	.49
25	5.6	24	57	81	24	37	96	18	7.0	2.9	1.4	.46
26	4.8	23	59	73	23	47	69	16	6.8	2.8	1.3	.47
27	4.3	19	1,480	64	23	66	60	15	6.7	2.7	1.3	.48
28	4.0	16	682	58	23	327	54	15	6.4	2.8	1.3	.47
29	3.6	14	379	54	-----	185	49	15	6.1	2.7	1.2	.47
30	3.5	16	270	50	-----	180	46	14	5.8	2.6	1.2	.44
31	3.4	-----	184	47	-----	153	-----	14	-----	2.6	1.3	-----
TOTAL	115.6	1,294.0	5,651	5,467	860	5,284	5,345	746	285.4	148.9	54.2	23.07
MEAN	3.73	43.1	182	176	30.7	170	178	24.1	9.51	4.80	1.75	.77
MAX	8.9	242	1,480	423	51	1,000	1,260	43	14	9.7	2.5	1.4
MIN	1.6	3.3	21	47	23	33	46	14	5.8	2.6	1.2	.44
AC-FT	229	2,570	11,210	10,840	1,710	10,480	10,600	1,480	566	295	108	46

CAL YR 1973 TOTAL 36,772.20 MEAN 101 MAX 1,830 MIN 1.0 AC-FT 72,940
WTR YR 1974 TOTAL 25,274.17 MEAN 69.2 MAX 1,480 MIN .44 AC-FT 50,130

PEAK DISCHARGE (BASE, 800 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-1	0530	9.49	2,840	3-2	0415	7.95	1,470
12-27	0515	9.32	2,670	4-1	2145	9.92	3,310

11176000 ARROYO MOCHO NEAR LIVERMORE, CALIF.

LOCATION.--Lat 37°37'35", long 121°42'13", in NW¼SE¼ sec.36, T.3 S., R.2 E., Alameda County, on right bank 100 ft (30 m) downstream from Mines Road bridge, 2.4 mi (3.9 km) upstream from small right-bank tributary, and 5.2 mi (8.4 km) southeast of Livermore.

DRAINAGE AREA.--38.2 mi² (98.9 km²).

PERIOD OF RECORD.--January 1912 to September 1930, October 1963 to current year. Records for water year 1914 incomplete, yearly estimate and monthly discharge only for some months, published in WSP 1315-B.

GAGE.--Water-stage recorder. Concrete control since Aug. 5, 1964 (ineffective due to gravel fill). Datum of gage is 746.49 ft (227.530 m) above mean sea level. 1912 to October 1914 at present site at different datum. November 1914 to Sept. 30, 1930, at site 1 mi (2 km) upstream at different datum.

AVERAGE DISCHARGE.--29 years, 4.38 ft³/s (0.124 m³/s), 3,170 acre-ft/yr (3.91 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 228 ft³/s (6.46 m³/s) Dec. 27 (gage height, 6.16 ft or 1.878 m); minimum daily, 0.11 ft³/s (0.003 m³/s) Sept. 17-22.

Period of record: Maximum discharge recorded, 1,250 ft³/s (35.4 m³/s) Jan. 22, 1967 (gage height, 5.90 ft or 1.798 m), from rating curve extended above 460 ft³/s (13.0 m³/s); maximum daily discharge, 1,000 ft³/s (28.3 m³/s) Jan. 25, 1914 (estimated); no flow for parts of most years.

Flood of Dec. 23, 1955, discharge 1,880 ft³/s (53.2 m³/s), by slope-area measurement of maximum flow.

REMARKS.--Records fair. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.14	.48	66	8.8	3.9	20	28	2.5	1.2	.46	.17	.14
2	.14	.52	15	6.3	3.4	60	69	2.5	1.2	.38	.17	.14
3	.14	.59	6.1	5.4	3.2	40	23	2.3	1.2	.33	.17	.17
4	.16	.75	3.6	9.1	3.0	19	12	2.3	1.2	.29	.17	.17
5	.17	.79	2.9	9.8	2.5	13	8.0	2.3	1.1	.26	.17	.17
6	.17	4.1	2.3	11	2.1	8.7	6.2	2.3	1.0	.24	.17	.17
7	.24	2.6	2.0	18	2.0	7.2	5.1	2.3	.98	.25	.16	.14
8	.35	1.3	1.9	37	1.9	8.4	4.8	2.2	.90	.25	.14	.14
9	.45	.90	1.7	28	1.9	5.9	7.6	2.0	.85	.40	.14	.14
10	.48	.79	1.6	17	1.8	5.1	13	2.0	.80	.70	.14	.14
11	.43	.90	1.9	14	1.8	4.6	7.2	1.9	1.1	.60	.14	.14
12	.43	6.7	2.5	39	1.8	4.6	5.4	1.9	1.3	.55	.14	.14
13	.43	3.5	2.2	33	2.1	4.3	4.3	1.9	1.2	.50	.14	.14
14	.45	2.1	2.0	17	1.9	3.9	4.1	1.9	1.2	.45	.14	.14
15	.36	1.5	1.9	12	1.8	3.7	3.9	1.9	1.2	.43	.14	.14
16	.36	1.5	1.7	9.7	1.8	3.7	3.4	1.9	1.1	.40	.14	.14
17	.35	2.6	1.6	20	1.8	3.7	3.4	1.9	1.3	.36	.19	.11
18	.41	12	1.6	18	1.7	3.4	3.4	1.8	1.5	.31	.26	.11
19	.42	4.4	1.6	15	2.3	3.2	3.7	1.9	1.6	.30	.26	.11
20	.42	2.8	1.4	12	2.2	3.2	3.7	1.9	1.5	.29	.26	.11
21	.42	2.3	2.3	8.9	1.8	3.0	3.4	1.9	1.3	.26	.24	.11
22	.53	2.0	1.4	6.9	1.8	3.0	3.2	1.8	1.1	.26	.21	.11
23	1.3	1.7	5.6	5.9	1.7	3.0	3.4	1.8	1.0	.22	.20	.14
24	1.6	1.4	3.7	5.1	1.5	3.0	4.6	1.7	.87	.21	.17	.14
25	1.1	1.3	2.8	4.6	1.5	3.4	4.3	1.6	.80	.21	.16	.14
26	.44	1.3	4.3	4.3	1.5	4.6	3.9	1.6	.74	.21	.14	.14
27	.77	1.2	167	4.0	1.5	4.8	3.2	1.5	.67	.23	.14	.14
28	.68	1.1	92	4.1	1.5	16	3.0	1.4	.58	.25	.14	.14
29	.61	1.1	25	3.9	-----	10	2.8	1.5	.52	.21	.14	.14
30	.55	1.6	12	3.5	-----	7.2	2.7	1.3	.48	.20	.14	.16
31	.54	-----	7.9	3.5	-----	6.5	-----	1.2	-----	.17	.14	-----
TOTAL	15.90	65.42	454.3	394.8	57.7	290.1	253.7	58.9	31.57	10.18	5.23	4.16
MEAN	.51	2.21	14.8	12.7	2.06	9.36	8.46	1.90	1.05	.33	.17	.14
MAX	1.4	12	167	39	3.9	60	69	2.5	1.6	.70	.26	.17
MIN	.14	.48	1.4	3.5	1.5	3.0	2.7	1.2	.48	.17	.14	.11
ACFT	31	132	969	783	114	575	503	117	63	20	10	8.3
CAL YR 1973	TOTAL	5,351.09	MEAN	14.7	MAX	321	MIN	.08	ACFT	10,610		
WTR YR 1974	TOTAL	1,646.86	MEAN	4.51	MAX	167	MIN	.11	ACFT	3,270		

PEAK DISCHARGE (BASE, 90 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-1	0745	6.02	177	4-2	0115	5.95	140
12-27	2245	6.16	228				

NOTE.--No gage-height record June 8 to July 18.

11176100 ARROYO LAS POSITAS ABOVE LIVERMORE, CALIF.

LOCATION.--Lat 37°41'40", long 121°42'49", in Las Positas Valley Grant, Alameda County, on left bank at northwest corner boundary of Lawrence Livermore Laboratory, 1,100 ft (335 m) upstream from Western Pacific Railroad, and 3.0 mi (4.8 km) northeast of Livermore.

DRAINAGE AREA.--7.82 mi² (20.25 km²).

PERIOD OF RECORD.--December 1971 to June 1974 (discontinued).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 570 ft (174 m), from topographic map.

EXTREMES.--Maximum discharge during period (also maximum for water year) October 1973 to June 1974, 54 ft³/s (1.53 m³/s Dec. 26 (gage height, 3.36 ft or 1.024 m); no flow many days.

Period of record: Maximum discharge, 226 ft³/s (6.40 m³/s) Feb. 27, 1973 (gage height, 6.35 ft or 1.935 m, from floodmarks), from rating curve extended above 30 ft³/s (0.85 m³/s) on basis of field estimate of maximum flow; no flow many days in each year.

REMARKS.--Records fair. Small releases above station from cooling water towers at laboratory and from backwashing at filtration plant.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	20	.25	.04	6.9	5.9	.02	.02			
2	0	0	4.0	.04	.02	3.6	.10	.04	.02			
3	0	0	1.0	.12	0	1.4	.01	.04	.02			
4	0	0	.03	.09	0	0	.01	.04	.02			
5	0	3.5	.04	.22	0	0	.01	.02	.02			
6	.32	5.7	.02	.25	0	0	.01	.03	.02			
7	4.7	.05	.03	.25	.03	.02	.02	.03	.01			
8	.02	.03	.02	.22	.02	0	.03	.03	.02			
9	.06	.18	.02	.06	.04	0	4.3	.02	.01			
10	.03	1.1	.01	.02	.01	0	.07	.03	.02			
11	.02	4.7	1.6	.01	0	.44	.06	.03	.02			
12	.02	0.4	.03	.01	1.6	.03	.06	.02	.02			
13	.01	.05	.32	.01	.11	.01	.02	.02	.02			
14	0	.19	.03	.01	.01	0	.02	.02	.02			
15	.03	.04	.05	0	0	0	.01	.03	.02			
16	.05	1.4	.02	.30	.01	.14	.01	.02	.01			
17	.03	2.8	.04	1.4	.01	.43	.01	.02	.02			
18	.02	.19	.14	.13	0	.28	.36	.02	.02			
19	.02	.02	.07	.47	.04	.13	.06	.02	.02			
20	0	.02	.04	.04	.04	.04	.03	.02	.02			
21	0	.02	4.1	.08	.03	0	.03	.02	.05			
22	2.4	.14	.94	.04	.04	0	.02	.03	.03			
23	.30	.28	.04	.01	.02	0	.72	.02	.03			
24	0	.36	.03	0	0	0	.99	.03	.03			
25	0	.36	.02	0	0	.08	.29	.02	.03			
26	0	.22	10	0	0	.13	.12	.02	.03			
27	0	.36	10	0	0	.08	.07	.02	.03			
28	0	.25	.52	0	0	.43	.05	.02	.03			
29	0	.22	.46	0	-----	.16	.04	.03	.03			
30	0	2.6	.03	0	-----	.06	.03	.04	.03			
31	0	-----	.46	.01	-----	.03	-----	.04	-----			
TOTAL	8.55	35.88	54.11	4.04	2.07	14.39	13.46	.81	.67			
MEAN	.27	1.23	1.75	.13	.074	.46	.45	.026	.023			
MAX	4.7	8.6	20	1.4	1.6	6.9	5.9	.04	.05			
MIN	0	0	.01	0	0	0	.01	.02	.01			
AC-FT	17	73	107	8.0	4.1	29	27	1.6	1.4			

CAL YR 1973 TOTAL 301.31 MEAN .83 MAX 31 MIN 0 AC-FT 598

PEAK DISCHARGE (BASE, 40 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
10-22	2115	3.20	41	12-1	0045	3.25	45
11-5	1745	3.27	46	12-26	2045	3.36	54
11-12	0215	3.19	40	3-1	2230	3.19	40

11176200 ARROYO MOCHO NEAR PLEASANTON, CALIF.

LOCATION.--Lat 37°41'26", long 121°52'20", in Santa Rita Grant, Alameda County, on right bank 0.3 mi (0.5 km) upstream from Santa Rita Road, 0.8 mi (1.3 km) downstream from Arroyo Las Positas, and 2 mi (3 km) north of Pleasanton.

DRAINAGE AREA.--143 mi² or 370 km² (revised).

PERIOD OF RECORD.--September 1962 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 319.51 ft (97.387 m) above mean sea level. Prior to Oct. 30, 1967, at site 0.4 mi (0.6 km) downstream at different datum. Dec. 8, 1967, to July 7, 1968, nonrecording gage at bridge 0.3 mi (0.5 km) downstream at different datum.

AVERAGE DISCHARGE.--12 years, 14.7 ft³/s (0.416 m³/s), 10,650 acre-ft/yr (13.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 917 ft³/s (26.0 m³/s) Dec. 27 (gage height, 11.07 ft or 3.374 m); minimum daily, 0.01 ft³/s (<0.001 m³/s) Oct. 6, 12, 13, Nov. 2.

Period of record: Maximum discharge, 1,760 ft³/s (49.8 m³/s) Feb. 1, 1963 (gage height, 8.60 ft or 2.621 m, site and datum then in use), from rating curve extended above 58 ft³/s (1.64 m³/s) on basis of slope-area measurement of maximum flow; no flow at times.

REMARKS.--Records fair. No regulation. Waste water from Livermore sewage disposal plant and gravel operations enters stream about 4 mi (6 km) upstream from gage.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP
1	.02	.02	235	13	3.1	30	127	5.5	9.3	2.8	2.7	5.1
2	.03	.01	25	7.0	3.4	111	137	6.9	7.6	4.4	1.8	6.0
3	.03	.02	8.1	12	2.1	61	38	13	7.5	4.8	2.2	6.1
4	.02	.38	5.5	14	3.1	26	15	6.5	5.6	6.2	3.9	5.9
5	.03	20	4.7	13	3.6	11	6.8	4.5	5.0	6.4	4.2	5.8
6	.01	53	4.3	12	6.2	5.4	3.5	5.2	4.0	6.4	4.7	5.3
7	4.8	3.5	4.3	35	2.8	5.2	2.8	3.3	4.2	6.6	3.3	4.8
8	2.1	.63	4.1	37	1.6	4.2	3.5	3.5	5.2	7.2	3.3	5.6
9	.72	.13	3.7	23	.60	2.8	30	2.5	5.2	5.4	4.1	6.6
10	.58	1.2	4.0	13	.60	3.0	22	2.5	6.0	5.5	5.1	7.2
11	.02	25	11	8.0	.60	5.4	6.6	1.4	6.9	5.5	5.1	7.0
12	.01	104	1.8	18	5.1	6.0	4.7	2.8	7.2	5.5	3.8	6.9
13	.01	3.4	.95	18	5.1	5.4	7.4	4.0	5.1	3.5	3.3	7.4
14	.02	1.4	4.7	7.2	2.3	5.7	6.4	4.0	6.5	3.2	5.0	6.4
15	.02	2.1	4.6	3.1	1.8	6.0	7.8	2.7	5.9	3.8	3.4	6.3
16	.02	18	4.5	11	1.1	6.2	6.8	5.2	4.9	3.1	2.9	7.6
17	.02	38	5.1	16	.50	3.4	3.4	3.6	6.3	2.0	4.6	7.4
18	.03	22	4.6	10	.90	5.0	7.4	3.2	7.5	2.4	4.0	6.2
19	.03	6.8	3.3	13	5.1	4.5	5.5	3.8	7.1	4.5	4.8	6.2
20	.03	4.8	3.3	8.6	2.5	4.5	2.7	3.8	7.0	3.2	4.0	6.3
21	.05	4.4	30	3.9	2.3	1.8	5.7	3.9	6.0	3.4	3.4	6.1
22	1.5	5.1	32	5.7	1.4	2.2	3.1	4.0	5.2	4.4	4.5	7.5
23	17	3.7	7.2	4.7	1.1	3.7	7.0	4.4	4.8	2.9	3.9	8.9
24	1.2	3.9	4.3	1.7	1.4	2.1	12	3.7	5.0	2.8	2.6	6.3
25	.11	4.2	3.3	2.5	1.1	6.4	7.0	4.8	5.3	3.2	2.7	5.3
26	.33	4.4	45	2.4	.60	5.5	6.6	4.0	4.6	3.2	2.5	6.5
27	.13	3.8	563	2.1	.60	4.1	6.6	5.7	4.4	3.9	3.4	6.2
28	.05	3.9	193	1.9	3.0	41	6.2	7.3	4.6	4.8	2.9	6.0
29	.02	4.2	45	1.5	-----	15	6.6	8.6	2.9	4.4	3.1	7.1
30	.02	15	23	.54	-----	13	6.6	11	3.2	3.8	4.4	8.6
31	.02	-----	11	1.5	-----	8.9	-----	9.5	-----	1.8	4.5	-----
TOTAL	28.98	356.99	1,339.35	318.34	63.60	415.9	511.7	154.8	170.0	131.0	114.6	194.6
MEAN	.93	11.9	43.2	10.3	2.27	13.4	17.1	4.99	5.67	4.23	3.70	6.49
MAX	17	104	563	37	6.2	111	137	13	9.3	7.2	5.1	8.9
MIN	.01	.01	.95	.54	.50	1.8	2.7	1.4	2.9	1.8	1.8	4.8
AC-FT	57	708	2,660	631	126	825	1,010	307	337	260	227	386
CAL YR 1973	TOTAL	11,860.59	MEAN	32.5	MAX	906	MIN	0	AC-FT	23,530		
WTR YR 1974	TOTAL	3,799.86	MEAN	10.4	MAX	563	MIN	.01	AC-FT	7,540		

PEAK DISCHARGE (BASE, 250 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-12	0415	9.81	414	3-1	2315	9.43	279
12-1	0315	10.89	836	4-1	1930	9.75	393
12-27	0145	11.07	917				

ALAMEDA CREEK BASIN

11176400 ARROYO VALLE ABOVE LANG CANYON, NEAR LIVERMORE, CALIF.

LOCATION.--Lat 37°33'00", long 121°39'57", in SE¼ sec.29, T.4 S., R.3 E., Alameda County, on left bank 700 ft (213 m) upstream from small right-bank tributary, 1,200 ft (366 m) upstream from Lang Canyon, and 10.5 mi (16.9 km) southeast of Livermore.

DRAINAGE AREA.--126 mi² (326 km²).

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 800 ft (244 m), from topographic map.

AVERAGE DISCHARGE.--11 years, 30.4 ft³/s (0.861 m³/s), 22,020 acre-ft/yr (27.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,130 ft³/s (32.0 m³/s) Apr. 1 (gage height, 5.53 ft or 1.686 m); no flow many days.

Period of record: Maximum discharge, 5,340 ft³/s (151 m³/s) Jan. 25, 1969 (gage height, 8.90 ft or 2.713 m); no flow at times in each year.

REMARKS.--Records good. No regulation or diversion above station. Records of water temperatures and sediment discharge for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.34	100	90	32	145	478	21	6.0	1.6	.31	
2	.10	.34	233	68	30	582	664	19	5.8	1.2	.27	
3	.12	.37	90	56	28	410	291	18	5.5	1.1	.21	
4	.10	.37	51	120	27	274	178	17	5.1	1.1	.18	
5	.10	1.7	35	176	25	170	128	17	4.7	.94	.20	
6	.08	.21	.28	.254	.24	123	99	16	4.3	.86	.16	
7	.79	13	23	375	23	102	80	15	3.8	.93	.12	
8	1.7	6.7	20	475	22	104	70	14	3.2	.91	.10	
9	1.3	4.4	18	256	22	76	92	13	2.8	1.7	.09	
10	.73	4.3	16	167	21	62	124	12	3.0	3.2	.08	
11	.51	5.0	18	136	21	55	80	12	3.7	2.7	.08	
12	.43	73	19	220	21	54	60	11	4.3	2.2	.08	
13	.30	15	18	187	23	49	48	10	4.1	1.9	.08	
14	.30	10	18	137	21	43	42	10	4.1	1.7	.08	
15	.30	6.7	16	112	20	39	36	10	4.1	1.4	.08	
16	.30	9.4	15	105	20	37	34	9.8	4.0	1.2	.08	
17	.21	29	15	194	20	34	32	9.8	4.3	1.0	.08	
18	.18	69	15	185	19	32	30	9.9	5.1	.89	.06	
19	.18	24	14	160	25	30	31	10	5.4	.84	.06	
20	.17	14	13	134	24	28	28	9.8	5.2	.69	.06	
21	.21	13	39	104	20	27	27	9.7	4.5	.56	.04	
22	.46	9.8	111	80	20	26	25	9.3	3.8	.46	.04	
23	3.2	8.6	57	68	19	27	26	8.9	3.2	.39	.03	
24	1.8	7.4	38	59	18	26	33	8.5	3.0	.42	.03	
25	1.0	7.2	30	52	18	28	29	7.9	2.7	.36	.03	
26	.84	7.0	71	46	18	38	26	7.5	2.5	.28	.03	
27	.59	6.5	818	41	18	41	25	6.8	2.3	.25	.02	
28	.54	6.0	555	37	18	197	24	6.4	2.0	.25	.02	
29	.43	5.4	246	35	-----	148	22	6.4	1.8	.31	.01	
30	.28	8.2	146	33	-----	115	21	6.2	1.6	.27	.01	
31	.25	-----	96	32	-----	95	-----	6.0	-----	.28	.01	-----
TOTAL	17.61	387.32	3,582	4,194	617	3,217	2,883	347.9	115.9	31.89	2.73	0
MEAN	.57	12.9	116	135	22.0	104	96.1	11.2	3.86	1.03	.088	0
MAX	3.2	73	818	475	32	582	664	21	6.0	3.2	.31	0
MIN	.08	.34	13	32	18	26	21	6.0	1.6	.25	.01	0
AC-FT	45	768	7,100	8,320	1,220	6,380	5,720	690	230	63	5.4	0
CAL YR 1973	TOTAL	24,496.44	MEAN	67.1	MAX	1,760	MIN	.05	AC-FT	48,590		
WTR YR 1974	TOTAL	15,396.35	MEAN	42.2	MAX	818	MIN	0	AC-FT	30,540		

PEAK DISCHARGE (BASE, 500 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-1	1030	5.41	1,040	3-2	0315	4.85	683
12-27	0345	5.29	954	4-1	2100	5.53	1,130
1-8	0130	4.76	633				

11176500 ARROYO VALLE NEAR LIVERMORE, CALIF.

LOCATION.--Lat 37°37'24", long 121°45'28", in Valle de San Jose Grant, Alameda County, on right bank 900 ft (274 m) downstream from highway bridge, 1.1 mi (1.8 km) upstream from Dry Creek, 1.3 mi (2.1 km) downstream from Del Valle Dam, 4.1 mi (6.6 km) south of Livermore, and 6.9 mi (11.1 km) southeast of Pleasanton.

DRAINAGE AREA.--147 mi² (381 km²).

PERIOD OF RECORD.--January 1912 to September 1930, October 1957 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Published as Arroyo del Valle near Livermore, 1912-29.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 510.44 ft (155.582 m) above mean sea level. Prior to November 1914, at site 900 ft (274 m) upstream at different datum. Nov. 1, 1914, to Sept. 30, 1930, at site 300 ft (91 m) upstream at different datum.

AVERAGE DISCHARGE.--29 years (1912-30, 1957-68), 29.6 ft³/s (0.838 m³/s), 21,450 acre-ft/yr (26.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 270 ft³/s (7.65 m³/s) Apr. 10 (gage height, 3.76 ft or 1.146 m); minimum daily, 0.15 ft³/s (0.004 m³/s) July 13, 14.

Period of record: Maximum discharge, 12,200 ft³/s (346 m³/s) Apr. 2, 1958 (gage height, 10.91 ft or 3.325 m); no flow at times. Maximum discharge since construction of Del Valle Dam in 1968, 1,030 ft³/s (29.2 m³/s) Feb. 11, 1973 (gage height, 5.39 ft or 1.643 m).

Flood of Dec. 23, 1955, reached a stage of 13.93 ft (4.246 m), from floodmarks (discharge, 18,200 ft³/s or 515 m³/s, on basis of contracted-opening and slope-area measurement of maximum flow).

REMARKS.--Records good. Flow regulated by Del Valle Reservoir 1.3 mi (2.1 km) upstream beginning in September 1968, capacity, 77,100 acre-ft (95.1 hm³). Water from Sacramento-San Joaquin Delta imported through South Bay Aqueduct can be pumped into Del Valle Reservoir for storage and later released into the channel for downstream percolation or returned to the South Bay Aqueduct. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	9.5	2.3	.75	.66	10	1.6	9.8	8.6	.38	12	11
2	36	8.7	.94	.66	.64	10	133	9.9	8.5	.32	12	10
3	37	8.5	.66	.74	.54	9.9	263	10	8.6	.24	11	4.9
4	37	8.1	.69	.76	.54	8.8	264	10	8.6	.22	11	.92
5	37	5.0	.66	.59	.66	8.7	264	10	8.6	.19	11	.80
6	37	1.0	.70	.71	.66	9.3	264	9.9	8.6	.27	11	.65
7	33	.60	.94	.77	.68	9.8	264	10	8.6	.31	11	.59
8	1.6	.57	1.0	.66	.75	9.8	263	9.9	8.7	.27	11	.48
9	5.3	.54	.94	.66	.73	9.8	264	10	8.7	.27	10	.45
10	9.9	.60	.78	.66	.66	9.2	266	9.9	8.2	.27	10	.48
11	21	1.2	1.6	.66	.67	9.2	266	9.8	5.8	.25	10	.41
12	29	1.5	2.3	.66	.81	5.8	88	9.9	.77	.25	12	4.8
13	29	.51	3.0	.62	.80	6.3	1.8	9.5	.69	.15	13	15
14	29	.48	2.9	.65	.80	7.5	1.4	8.8	.70	.15	13	15
15	29	.35	2.9	.66	.85	7.4	1.3	9.2	.66	.17	32	15
16	29	.61	2.4	.70	.84	6.0	1.3	8.2	.61	.25	49	15
17	29	.77	2.4	.80	.87	6.7	1.1	8.3	.63	.23	13	15
18	29	1.1	2.3	.67	.80	5.7	1.3	8.5	.71	.18	13	18
19	29	.74	2.3	.66	3.8	7.0	1.1	8.2	.57	2.8	12	26
20	29	.71	2.3	.66	12	5.8	1.1	8.0	.61	8.0	8.2	16
21	29	.69	2.9	.66	11	6.1	1.1	7.9	.66	8.7	8.2	6.5
22	30	.77	1.6	.66	11	6.1	.94	7.6	.63	8.7	8.2	6.5
23	21	.71	1.1	.72	11	5.4	1.1	7.7	.48	8.7	9.2	7.7
24	10	.64	.66	.71	11	6.4	1.1	7.7	.49	8.7	11	10
25	8.8	.78	.71	.75	11	6.0	.94	7.6	.43	8.7	10	12
26	8.3	.67	1.1	.63	11	6.8	6.1	7.1	.39	10	9.7	12
27	7.7	.63	1.5	.63	9.8	1.4	5.3	6.7	.41	12	9.8	11
28	7.7	.61	.91	.76	9.4	1.5	6.1	6.7	.38	11	9.8	13
29	7.7	.54	.81	.66	-----	1.3	5.3	7.5	.35	11	10	13
30	7.7	1.1	.75	.54	-----	1.2	5.4	8.5	.44	11	10	12
31	8.5	-----	.71	.61	-----	1.1	-----	8.7	-----	11	10	-----
TOTAL	699.2	58.22	46.66	21.03	113.96	206.0	2,644.38	271.5	102.11	124.67	391.1	274.18
MEAN	22.6	1.94	1.51	.68	4.07	6.65	88.1	8.76	3.40	4.02	12.6	9.14
MAX	37	9.5	3.0	.80	12	10	266	10	8.7	12	49	26
MIN	1.6	.35	.66	.54	.54	1.1	.94	6.7	.35	.15	8.2	.41
AC-FT	1,390	115	93	42	226	409	5,250	539	203	247	776	544

CAL YR 1973 TOTAL 16,986.15 MEAN 46.5 MAX 981 MIN .35 AC-FT 33,690
WTR YR 1974 TOTAL 4,953.01 MEAN 13.6 MAX 266 MIN .15 AC-FT 9,820

11176600 ARROYO VALLE AT PLEASANTON, CALIF.

LOCATION.--Lat 37°40'02", long 121°53'02", in Valle de San Jose Grant, Alameda County, on right bank 0.4 mi (0.6 km) northwest of Pleasanton, and 5.8 mi (9.3 km) west of Livermore.

DRAINAGE AREA.--171 mi² (443 km²).

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder. Concrete control since Sept. 2, 1970. Datum of gage is 311.80 ft (95.037 m) above mean sea level.

AVERAGE DISCHARGE.--11 years (1957-68), 27.7 ft³/s (0.784 m³/s), 20,050 acre-ft/yr (24.7 hm³/yr); 6 years (1968-74), 21.7 ft³/s (0.615 m³/s), 15,720 acre-ft/yr (19.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 249 ft³/s (7.05 m³/s) Apr. 6 (gage height, 9.32 ft or 2.841 m); no flow at times.

Period of record: Maximum discharge, 11,300 ft³/s (320 m³/s) Apr. 3, 1958 (gage height, 25.36 ft or 7.730 m); no flow at times in most years. Maximum discharge since construction of Del Valle Dam in 1968, 1,060 ft³/s (30.0 m³/s) Feb. 13, 1973 (gage height, 11.17 ft or 3.405 m); maximum gage height, 11.43 ft or 3.484 m Mar. 3, 1969.

REMARKS.--Records good. Flow regulated by Del Valle Reservoir 10 mi (16 km) upstream beginning in September 1968, capacity, 77,100 acre-ft (95.1 hm³). Water imported from Sacramento-San Joaquin Delta (see REMARKS for sta 11176500). Flow regulated by pumping and gravel operations above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	.05	26	2.6	0	8.9	18	1.9	1.0		0	0
2	25	.14	7.8	.37	3.5	18	11	3.4	6.0		0	0
3	25	.37	4.8	13	8.7	24	196	.33	3.4		0	0
4	24	.45	2.7	12	5.7	15	238	0	.70		0	0
5	24	13	1.6	13	2.3	5.4	244	0	.02		0	0
6	24	13	1.1	13	3.0	3.7	247	4.8	0		0	0
7	34	4.6	.96	14	3.9	4.0	247	1.9	0		0	0
8	25	1.5	.76	13	4.1	4.2	239	1.3	0		0	0
9	8.7	.22	1.7	12	5.5	4.1	257	1.3	0		0	0
10	3.1	.68	1.9	7.4	6.1	3.9	252	1.3	0		0	0
11	2.1	3.9	2.7	1.1	6.3	4.3	247	3.7	0		0	0
12	5.1	11	.48	8.7	7.4	9.8	196	13	0		0	0
13	13	7.1	.95	11	6.7	9.8	37	10	0		0	0
14	15	1.8	.31	7.1	2.3	8.2	22	8.1	0		0	0
15	16	.30	.07	.45	1.7	8.2	14	6.9	0		0	0
16	16	3.8	1.1	1.5	.14	3.0	10	6.0	0		0	0
17	16	10	1.9	.34	0	2.5	5.0	5.6	0		13	0
18	16	6.1	.41	0	0	2.0	6.5	6.6	0		6.4	0
19	16	4.3	.03	0	0	1.1	8.3	9.2	0		3.0	0
20	16	1.4	1.2	0	0	1.1	8.7	2.2	0		2.3	0
21	16	.10	8.2	0	0	1.1	9.5	2.3	0		.85	2.9
22	25	0	5.2	0	0	.94	7.0	.37	0		.04	1.7
23	28	.63	4.5	0	0	.54	8.8	0	0		0	.09
24	16	2.0	3.2	0	0	.92	8.3	3.1	0		0	0
25	7.5	.73	.81	0	0	7.0	5.8	6.9	0		0	0
26	4.4	0	8.7	6.1	0	6.9	4.7	7.7	0		0	0
27	2.8	0	18	9.1	2.3	9.5	8.1	4.0	0		0	0
28	3.8	0	27	5.9	7.0	13	7.7	2.1	0		0	0
29	4.5	0	21	.27	-----	7.9	5.7	3.1	0		0	0
30	2.0	6.3	17	2.1	-----	12	1.1	.31	0		0	0
31	.56	-----	13	.19	-----	10	-----	0	-----		0	-----
TOTAL	458.56	89.47	185.08	154.22	76.64	211.00	2,570.2	117.41	11.12	0	25.59	4.69
MEAN	14.8	2.98	5.97	4.97	2.74	6.81	85.7	3.79	.37	0	.83	.16
MAX	34	13	27	14	8.7	24	257	13	6.0	0	13	2.9
MIN	.56	0	.03	0	0	.54	1.1	0	0	0	0	0
AC-FT	910	177	367	306	152	419	5,100	233	22	0	51	9.3

CAL YR 1973 TOTAL 16,547.01 MEAN 45.3 MAX 1,040 MIN 0 AC-FT 32,820
WTR YR 1974 TOTAL 3,903.98 MEAN 10.7 MAX 257 MIN 0 AC-FT 7,740

11177000 ARROYO DE LA LAGUNA NEAR PLEASANTON, CALIF.

LOCATION.--Lat 37°36'55", long 121°52'50", in Valle de San Jose Grant, Alameda County, on right bank 0.3 mi (0.5 km) upstream from small left-bank tributary, 0.8 mi (1.3 km) downstream from highway bridge, and 3.2 mi (5.1 km) south of Pleasanton.

DRAINAGE AREA.--405 mi² (1,049 km²).

PERIOD OF RECORD.--January 1912 to September 1930, October 1969 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 251.40 ft (76.627 m) above mean sea level. January 1912 to September 1917, at site 3.0 mi (4.8 km) upstream at different datum. October 1917 to September 1930, at site 0.8 mi (1.3 km) downstream at different datum.

AVERAGE DISCHARGE.--17 years (1912-19, 1920-30), 42.5 ft³/s (1.204 m³/s), 30,790 acre-ft/yr (38.0 hm³/yr); 5 years (1969-74), 54.4 ft³/s (1.541 m³/s), 39,410 acre-ft/yr (48.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,360 ft³/s (66.8 m³/s) Apr. 1 (gage height, 11.14 ft or 3.395 m); minimum daily, 4.9 ft³/s (0.14 m³/s) Nov. 28.
Period of record: Maximum daily discharge, 9,810 ft³/s (278 m³/s) Jan. 25, 1914; no flow at times.

REMARKS.--Records fair. Flow partly regulated by Del Valle Reservoir 15 mi (24 km) upstream, capacity, 77,100 acre-ft (95.1 hm³). Water imported from Sacramento-San Joaquin Delta (see REMARKS for sta 11176500). Water from South Bay Aqueduct at times imported through Vallecitos Creek 1.5 mi (2.4 km) downstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	6.8	462	81	29	271	982	20	20	12	8.7	9.5
2	32	6.5	104	41	24	583	555	21	22	12	9.2	9.5
3	32	6.3	38	113	28	342	350	19	22	12	8.7	10
4	31	6.6	27	201	27	114	332	20	20	12	9.5	11
5	32	93	19	101	26	65	310	19	18	13	10	11
6	32	191	14	94	23	49	302	20	17	13	11	10
7	72	28	12	144	22	40	294	20	16	13	9.2	9.9
8	45	7.5	12	111	21	40	289	19	15	17	8.5	10
9	19	5.2	12	75	21	37	364	17	17	15	9.2	11
10	10	27	12	57	21	35	278	17	16	13	9.2	11
11	8.0	64	50	45	22	50	253	17	16	12	9.5	11
12	8.0	256	17	52	38	80	217	22	17	11	9.2	10
13	14	32	26	59	37	60	80	23	16	12	8.7	11
14	18	20	15	44	23	50	60	21	15	11	9.0	12
15	18	6.8	14	34	17	45	50	20	16	11	9.2	11
16	18	70	14	90	22	35	45	20	15	11	9.0	12
17	19	106	22	115	16	28	40	20	15	9.0	14	12
18	19	84	18	73	15	24	45	20	17	8.7	15	11
19	19	18	18	81	59	23	39	22	17	9.2	11	11
20	20	12	14	59	24	22	35	20	17	11	11	11
21	20	8.7	88	39	20	21	34	18	16	12	9.5	9.9
22	34	8.8	112	34	21	20	32	18	15	11	9.2	13
23	106	7.4	32	32	16	20	39	18	15	12	9.2	12
24	32	5.6	22	27	17	21	42	18	14	12	8.7	13
25	19	5.6	19	25	17	45	32	21	13	11	8.2	9.9
26	14	5.9	148	28	16	39	29	22	13	11	8.2	11
27	12	5.2	937	32	16	46	28	20	12	10	8.0	11
28	11	4.9	312	30	69	199	27	20	13	11	8.0	11
29	12	5.1	201	23	-----	68	25	21	12	12	7.7	11
30	10	124	122	23	-----	109	22	20	12	11	8.7	12
31	7.8	-----	80	23	-----	51	-----	20	-----	9.9	9.2	-----
TOTAL	776.8	1,227.9	3,393	1,986	707	2,632	5,230	613	479	360.8	293.4	328.7
MEAN	25.1	40.9	109	64.1	25.3	84.9	174	19.8	16.0	11.6	9.46	11.0
MAX	106	256	937	201	69	583	982	23	22	17	15	13
MIN	7.8	4.9	12	23	15	20	22	17	12	8.7	7.7	9.5
AC-FT	1,540	2,440	6,730	3,940	1,400	5,220	10,370	1,220	950	716	582	652

CAL YR 1973 TOTAL 44,293.3 MEAN 121 MAX 2,350 MIN 4.9 AC-FT 87,860
WTR YR 1974 TOTAL 18,027.6 MEAN 49.4 MAX 982 MIN 4.9 AC-FT 35,760

11179000 ALAMEDA CREEK NEAR NILES, CALIF.

LOCATION.--Lat 37°35'14", long 121°57'35", in NW¼ sec.15, T.4 S., R.1 W., Alameda County, on right bank 0.3 mi (0.5 km) downstream from railroad bridge, and 1.2 mi (1.9 km) northeast of Niles.

DRAINAGE AREA.--633 mi² (1,639 km²).

PERIOD OF RECORD.--January 1891 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Published as "at Niles Dam" 1891-1900, and as "at Sunol Glen" 1901-21.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 85.65 ft (26.106 m) above mean sea level. Prior to 1901, nonrecording gage at site 1 mi (2 km) upstream at different datum. 1901 to Sept. 30, 1914, nonrecording gage and Oct. 1, 1914, to Sept. 30, 1916, water-stage recorder at site 4.5 mi (7.2 km) upstream at different datum. Oct. 1, 1916, to Dec. 17, 1923, water-stage recorder at site 800 ft (244 m) upstream at different datum.

AVERAGE DISCHARGE.--71 years (1891-1962), 123 ft³/s (3.483 m³/s), 89,050 acre-ft/yr (110 hm³/yr); 12 years (1962-74), 104 ft³/s (2.945 m³/s), 75,350 acre-ft/yr (92.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 6,660 ft³/s (189 m³/s) Apr. 1 (gage height, 8.59 ft or 2.618 m); minimum daily, 8.2 ft³/s (0.23 m³/s) Sept. 27.
Period of record: Maximum discharge, 29,000 ft³/s (821 m³/s) Dec. 23, 1955 (gage height, 14.9 ft or 4.54 m); minimum (1891-1962), no flow at times; minimum daily (1963 to current year), 1.4 ft³/s (0.040 m³/s) Dec. 7, 8, 1962.

REMARKS.--Records good. Flow regulated by Calaveras Reservoir, usable capacity, 96,800 acre-ft (119 hm³), most of which is diverted for San Francisco water supply, beginning in 1916 although dam not completed until 1925, by San Antonio Reservoir beginning in February 1965, capacity, 51,000 acre-ft (62.9 hm³), and by Del Valle Reservoir 23 mi (37 km) upstream beginning in September 1968, capacity, 77,100 acre-ft (95.1 hm³). Natural flow of stream affected by imported water from Delta-Mendota Canal beginning in 1962. Other diversions from ground-water basin for irrigation of 9,000 acres (36.4 km²) above station.

REVISIONS (WATER YEARS).--WSP 1315-B: 1921. WSP 1515: 1951-52, 1956. WSP 1565: 1945.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	29	1,780	346	180	427	2,410	145	67	44	13	23
2	30	28	427	267	179	1,290	1,730	139	72	39	12	23
3	31	30	244	314	173	886	756	119	66	36	10	22
4	31	31	197	583	167	461	618	107	56	37	10	23
5	32	46	175	363	163	329	536	105	51	37	12	12
6	31	226	166	363	159	277	497	114	51	24	13	11
7	61	49	155	450	154	269	472	153	46	25	12	10
8	57	21	149	441	156	270	443	151	37	25	10	10
9	31	13	145	353	185	229	577	136	35	34	11	11
10	17	25	143	303	205	213	554	46	34	23	11	12
11	12	48	171	274	163	210	464	82	30	22	11	11
12	10	312	158	329	170	224	423	87	36	20	11	11
13	14	73	153	332	182	206	259	99	24	18	10	11
14	21	36	149	279	163	199	221	83	26	16	9.8	13
15	23	20	143	256	155	193	206	71	34	15	11	13
16	23	73	141	275	164	185	199	80	38	16	17	12
17	23	109	146	446	160	177	184	58	36	15	23	12
18	24	214	162	329	155	176	188	57	35	13	31	11
19	24	71	152	324	213	171	187	61	39	13	25	11
20	23	39	145	308	183	163	173	46	35	13	23	10
21	24	32	210	259	164	132	169	54	31	14	21	9.0
22	30	48	425	238	189	128	166	56	37	13	20	8.6
23	102	47	232	224	154	128	182	56	39	14	20	9.6
24	40	57	194	216	151	128	200	56	40	15	23	9.7
25	21	36	178	209	150	151	179	69	40	14	21	9.9
26	15	32	274	203	148	180	165	70	42	13	21	8.4
27	11	39	2,780	196	147	173	163	50	36	13	20	8.2
28	8.8	67	1,100	192	161	463	159	47	36	14	22	9.8
29	9.1	40	703	181	-----	269	154	60	35	15	23	9.0
30	11	107	491	175	-----	316	145	60	35	15	21	8.5
31	27	-----	459	173	-----	247	-----	66	-----	14	22	-----
TOTAL	447.4	2,055	12,047	9,207	4,692	8,870	12,783	2,612	1,223	639	519.6	362.7
MEAN	27.4	68.5	389	297	168	286	426	84.3	40.8	20.6	16.8	12.1
MAX	102	312	2,780	583	213	1,290	2,410	153	72	44	31	23
MIN	8.8	13	141	173	147	128	145	46	26	13	9.8	8.2
AC-FE	1,680	4,080	23,900	18,260	9,310	17,590	25,360	5,180	2,430	1,270	1,030	719

CAL YR 1973 TOTAL 91,910.6 MEAN 252 MAX 3,750 MIN 8.8 AC-FE 182,300
WTR YR 1974 TOTAL 55,858.4 MEAN 153 MAX 2,780 MIN 8.2 AC-FE 110,800

11180500 DRY CREEK AT UNION CITY, CALIF.

LOCATION.--Lat 37°36'22", long 122°01'22", in Arroyo de la Alameda Grant, Alameda County, on right bank 900 ft (274 m) downstream from bridge on State Highway 238 in Decoto District in Union City, and 1.7 mi (2.7 km) upstream from mouth.

DRAINAGE AREA.--9.41 mi² (24.37 km²).

PERIOD OF RECORD.--October 1916 to September 1919 (published as "near Decoto"), April 1959 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 85.12 ft (25.945 m) above mean sea level. Prior to Apr. 1, 1959, at site 1.4 mi (2.3 km) downstream at different datum.

AVERAGE DISCHARGE.--18 years, 2.17 ft³/s (0.0615 m³/s), 1,570 acre-ft/yr (1.94 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 650 ft³/s (18.4 m³/s) Apr. 1 (gage height, 4.02 ft or 1.225 m); no flow many days.

Period of record: Maximum discharge, 930 ft³/s (26.3 m³/s) Oct. 13, 1962 (gage height, 5.27 ft or 1.606 m, from outside gage), from rating curve extended above 140 ft³/s (3.96 m³/s) on basis of slope-area measurement of maximum flow; no flow most of each year.

REMARKS.--Records good. No regulation or diversion above station.

REVISIONS (WATER YEARS).--WSP 1929: Drainage area. WRD Calif. 1969: 1962(M), 1963(P), 1965(P), 1967(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	110	17	5.4	49	256	3.4	.90	.22	0	0
2	0	0	16	11	4.6	52	81	3.3	.81	.17	.03	.03
3	0	0	8.6	44	4.2	44	35	3.2	.77	.10	.01	0
4	0	0	5.9	69	4.0	21	22	2.9	.79	.08	0	0
5	0	.51	4.5	32	3.8	14	17	2.9	1.4	.08	0	0
6	0	1.6	3.5	26	3.2	12	14	2.9	2.1	.11	0	0
7	.04	.01	3.0	25	3.2	16	11	2.6	.72	.10	0	0
8	.03	0	2.6	18	3.1	12	9.6	2.5	.71	.25	0	.02
9	0	0	2.2	14	3.1	8.3	14	2.4	.63	.32	.01	.03
10	0	.06	1.9	12	3.1	7.3	9.1	2.2	.63	.19	.07	0
11	0	.98	3.0	10	2.9	7.6	7.7	2.3	.65	.16	.13	0
12	0	6.4	2.4	9.3	3.8	7.2	6.7	2.1	.69	.07	.06	.03
13	0	1.5	3.1	8.1	3.6	5.9	5.9	1.9	.70	.06	0	.04
14	0	.64	2.5	7.4	2.9	5.3	5.4	1.8	.64	.10	0	0
15	0	.35	1.9	7.1	2.8	4.9	5.1	1.7	.53	.04	0	0
16	0	1.7	1.7	11	3.2	4.6	4.9	1.7	.58	.04	.05	.01
17	0	5.3	2.1	13	2.9	4.3	4.7	1.5	.63	.04	.04	0
18	0	5.6	1.9	11	2.6	4.1	5.2	1.4	.66	.03	.04	0
19	0	2.5	1.6	16	9.8	3.9	4.8	1.4	.87	.02	.06	0
20	0	2.3	1.4	12	4.0	3.6	4.4	1.3	.77	.04	0	0
21	0	2.1	5.5	9.8	3.6	3.4	4.1	1.3	.48	.04	0	0
22	.04	1.7	8.3	8.1	3.6	3.3	3.9	1.3	.50	.04	.02	0
23	0	1.4	4.8	7.4	3.2	3.3	5.2	1.2	1.3	.03	.04	.06
24	0	1.1	4.1	6.8	2.9	3.7	4.9	1.1	1.5	.03	0	0
25	0	1.1	3.9	6.1	2.8	5.9	4.2	1.8	.36	.01	.05	0
26	0	1.4	6.4	5.7	2.8	5.5	4.1	3.1	.35	.01	.05	0
27	0	.89	19.3	5.2	2.8	6.2	3.9	.96	.35	0	0	0
28	0	.74	61	5.0	6.8	29	3.9	.91	.51	0	0	0
29	0	.72	65	4.8	-----	11	3.4	.93	.28	0	0	0
30	0	.35	32	4.8	-----	18	3.4	.87	.27	0	0	0
31	0	-----	22	4.8	-----	9.9	-----	.88	-----	0	0	-----
TOTAL	.11	75.60	652.4	441.4	104.7	386.2	564.5	59.75	22.08	2.38	.66	.22
MAFAN	.004	2.52	21.0	14.2	3.74	12.5	18.8	1.93	.74	.077	.021	.007
MAX	.04	.35	198	69	9.8	52	256	3.4	2.1	.32	.13	.06
MIN	0	0	1.4	4.8	2.6	3.3	3.4	.87	.27	0	0	0
AC-FT	.2	150	1,290	876	208	766	1,120	119	44	4.7	1.3	.4

CAL YR 1973 TOTAL 3,129.48 MEAN 8.57 MAX 224 MIN 0 AC-FT 6,210
 4TR YR 1974 TOTAL 2,310.00 MEAN 6.33 MAX 256 MIN 0 AC-FT 4,580

PEAK DISCHARGE (BASE, 40 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-30	2345	3.64	473	3-1	2045	2.91	189
12-26	2345	3.65	478	3-28	0115	2.54	89
12-29	1000	2.90	186	3-30	0445	2.26	40
1-3	1930	2.78	149	4-1	1145	4.02	650

ALAMEDA CREEK BASIN

11180700 PATTERSON CREEK AT UNION CITY, CALIF.

LOCATION.--Lat 37°55'09", long 122°02'50", in Potrero de Los Cerritos Grant, Alameda County, on right bank 0.1 mi (0.2 km) downstream from effluence from Alameda Creek, 0.2 mi (0.3 km) upstream from bridge on State Highway 17 (Nimitz Freeway), and 2.0 mi (3.2 km) southwest of Decoto District in Union City.

PERIOD OF RECORD.--October 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4.13 ft (1.259 m) above mean sea level. Prior to Oct. 26, 1966, at site 0.2 mi (0.3 km) downstream at same datum.

EXTREMES.--Current year: Maximum discharge, 5,470 ft³/s (155 m³/s) Nov. 6 (gage height, 14.35 ft or 4.374 m); no flow many days.

Period of record: Maximum discharge, 10,500 ft³/s (297 m³/s) Feb. 1, 1963 (gage height, 20.4 ft or 6.22 m, from floodmarks); no flow at times in each year.

REMARKS.--Records fair. This stream is a distributary of Alameda Creek. (See REMARKS for Alameda Creek near Niles). Diversion by Alameda County Water District to percolation ponds between station near Niles and this station; additional percolation to ground water by placing check dams in channel.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.57	.03	1,790	393	164	1,040	2,300	125	31	23		
2	.02	.02	495	197	162	1,130	2,130	117	31	16		
3	.13	.43	200	453	154	844	866	106	32	15		
4	.05	0	148	702	153	469	702	93	32	15		
5	0	18	127	423	141	355	607	87	29	15		
6	.54	550	123	410	137	329	561	66	29	15		
7	7.4	20	124	492	128	304	521	60	27	15		
8	3.7	5.0	127	493	131	209	479	108	19	15		
9	.74	2.0	118	230	175	150	641	95	15	15		
10	.23	6.5	112	219	190	164	645	64	12	15		
11	.12	21	141	283	139	145	394	60	11	15		
12	.37	451	129	323	163	213	388	63	12	14		
13	.52	136	113	323	162	196	206	70	10	10		
14	1.0	15	113	260	144	187	186	55	9.5	5.0		
15	.50	3.0	104	244	135	194	184	47	9.4	2.5		
16	.17	30	102	397	151	176	184	38	9.5	1.5		
17	.07	100	101	494	148	156	174	37	11	.80		
18	.02	200	113	366	141	160	177	36	13	.40		
19	0	40	115	361	215	153	178	39	17	.20		
20	.40	15	106	343	155	151	161	30	15	.20		
21	.34	5.1	280	174	140	117	154	37	11	.10		
22	4.0	4.0	496	173	166	97	151	38	14	.10		
23	3.6	10	265	185	136	102	165	38	18	0		
24	13	5.1	210	191	133	105	194	36	14	0		
25	2.4	4.1	186	190	128	264	169	44	17	0		
26	.35	10	295	187	125	198	148	47	20	0		
27	.15	5.2	2,620	184	125	188	142	33	19	0		
28	.25	3.0	1,240	177	433	574	142	27	15	0		
29	.22	5.5	812	165	-----	334	135	28	17	0		
30	0	161	535	157	-----	376	127	30	14	0		
31	0	-----	421	151	-----	294	-----	30	-----	0		
TOTAL	41,447	1,002,000	11,954	9,347	4,478	9,464	13,212	1,786	533.4	208.80	0	0
MEAN	1.34	31.0	385	302	160	305	440	57.6	17.6	6.74	0	0
MAX	13	550	2,620	702	433	1,130	2,300	125	32	23	0	0
MIN	0	0	101	151	125	97	127	27	9.4	0	0	0
AC-F1	52	3,750	23,710	18,540	8,480	18,770	26,210	3,540	1,060	414	0	0
CAL YR 1973	TOTAL 51,055.48	MEAN 228	MAX 3,600	MIN 0	AC-F1 164,700							
WTR YR 1974	TOTAL 52,913.77	MEAN 145	MAX 2,620	MIN 0	AC-F1 105,000							

11181000 SAN LORENZO CREEK AT HAYWARD, CALIF.

LOCATION.--Lat 37°41'11", long 122°03'44", in San Lorenzo Grant, Alameda County, on right bank at bridge on B Street, just outside city limits of Hayward, 0.5 mi (0.8 km) downstream from Crow Creek, and 0.9 mi (1.4 km) downstream from Don Castro Dam.

DRAINAGE AREA.--37.5 mi² (97.1 km²).

PERIOD OF RECORD.--October 1939 to September 1940, October 1946 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder and concrete control (control ineffective since 1952 due to gravel fill). Datum of gage is 133.16 ft (40.587 m) above mean sea level. January to September 1940, nonrecording gage on bridge at present site and datum.

AVERAGE DISCHARGE.--29 years, 15.2 ft³/s (0.430 m³/s), 11,010 acre-ft/yr (13.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,500 ft³/s (99.1 m³/s) Apr. 1 (gage height, 14.16 ft or 4.316 m); minimum daily, 0.14 ft³/s (0.004 m³/s) Oct. 1.

Period of record: Maximum discharge, 7,460 ft³/s (211 m³/s) Oct. 13, 1962 (gage height, 19.73 ft or 6.014 m, from floodmarks), from rating curve extended above 2,700 ft³/s (76.5 m³/s) on basis of slope-area measurement of maximum flow; maximum gage height, 20.82 ft (6.346 m), from floodmarks, Dec. 22, 1955; no flow at times.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Flow partly regulated by Cull Creek Reservoir beginning in October 1962, capacity, 310 acre-ft (382,000 m³) and Don Castro Reservoir 0.9 mi (1.4 km) upstream beginning in January 1965, capacity, 380 acre-ft (469,000 m³). A few very small diversions above station.

REVISIONS (WATER YEARS).--WSP 1315-B: 1947(M), 1949(M). WSP 1345: 1940(M). WSP 1715: 1947.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.14	.40	424	77	32	323	1,160	14	7.0	2.5	1.4	1.2
2	.20	.50	59	52	23	309	357	14	6.4	2.1	1.3	1.1
3	.20	2.0	34	174	27	203	156	14	6.1	1.6	1.2	.98
4	.20	.80	27	202	21	105	113	15	5.8	1.5	1.0	.99
5	.20	5.0	24	122	20	78	89	17	5.8	1.2	.97	.66
6	.20	30	21	105	18	65	74	17	6.2	1.1	1.0	.30
7	4.0	2.0	19	114	18	80	62	16	6.1	1.5	.95	.28
8	2.5	1.5	20	80	20	60	55	15	5.4	1.7	.96	.32
9	1.0	1.5	18	65	23	46	93	13	5.2	4.2	1.1	.28
10	.70	8.0	15	56	22	42	50	12	5.1	4.1	1.3	.29
11	.50	12	28	51	22	45	42	11	4.8	2.5	1.4	.26
12	.50	45	18	47	28	45	36	10	5.1	2.1	1.1	.25
13	.50	5.6	32	39	28	41	32	9.9	5.1	1.6	1.3	.33
14	.50	6.0	20	37	27	39	29	10	4.9	1.4	1.3	.40
15	.50	3.2	17	35	24	27	28	9.9	4.4	1.7	1.2	.74
16	.30	35	17	106	24	20	26	9.5	4.3	1.6	1.2	1.2
17	.30	43	22	108	20	22	25	9.9	4.3	1.7	1.3	1.5
18	.30	24	32	79	20	24	25	10	5.0	1.6	1.3	1.8
19	.30	8.3	25	87	51	31	23	9.7	4.4	1.4	1.2	1.5
20	.30	9.0	9.5	64	19	28	22	10	3.5	1.4	1.2	1.5
21	.30	6.8	30	51	18	18	21	16	3.3	1.2	1.1	1.5
22	1.0	7.2	29	44	17	18	20	12	2.9	1.5	.93	1.5
23	3.0	5.2	25	39	13	19	30	9.2	2.8	1.3	.94	2.0
24	1.0	4.7	25	36	13	18	24	8.1	2.5	1.3	.90	1.8
25	.70	6.1	25	35	14	30	19	6.4	2.5	1.1	.82	1.9
26	.40	5.2	189	31	13	24	20	5.8	2.5	.96	.90	1.7
27	.35	4.0	483	28	13	35	17	5.4	2.3	.93	1.1	1.5
28	.30	3.7	162	27	41	151	17	12	2.2	1.2	1.3	1.5
29	.30	4.1	282	26	-----	65	16	7.7	2.0	1.5	1.2	1.7
30	.30	101	120	26	-----	111	14	7.3	1.9	1.5	1.3	2.0
31	.30	-----	93	28	-----	57	-----	6.9	-----	1.7	1.2	-----
TOTAL	21.29	390.80	2,344.5	2,071	624	2,179	2,695	343.7	129.8	56.89	35.37	32.98
MEAN	.69	13.0	75.6	66.8	22.3	70.3	89.8	11.1	4.33	1.84	1.14	1.10
MAX	4.0	101	483	202	51	323	1,160	17	7.0	5.7	1.4	2.0
MIN	.14	.40	9.5	26	13	18	14	5.4	1.9	.93	.82	.25
AC=FT	42	775	4,650	4,110	1,240	4,320	5,350	682	257	113	70	65

CAL YR 1973 TOTAL 14,227.45 MEAN 39.0 MAX 1,150 MIN 0 AC=FT 28,220
WTR YR 1974 TOTAL 10,924.33 MEAN 29.9 MAX 1,160 MIN .14 AC=FT 21,670

PEAK DISCHARGE (BASE, 350 FT ³ /S)						NOTE.--No gage-height record Oct. 2 to Nov. 12.	
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-1	0045	10.81	1,630	3-1	2100	10.02	1,270
12-27	0145	9.82	1,180	3-28	0145	7.95	527
12-29	1015	8.66	745	4-1	1245	14.16	3,500
1-3	2015	8.03	551				

SAN LORENZO CREEK BASIN

11181008 CASTRO VALLEY CREEK AT HAYWARD, CALIF.

LOCATION.--Lat 37°40'48", long 122°04'46", in San Lorenzo (Castro) Grant, Alameda County, on left bank at Hayward, 700 ft (213 m) upstream from mouth, and 700 ft (213 m) downstream from small left-bank tributary.

DRAINAGE AREA.--5.51 mi² (14.27 km²).

PERIOD OF RECORD.--October 1971 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 100 ft (30 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 523 ft³/s (14.8 m³/s) Apr. 1 (gage height, 5.77 ft or 1.759 m), from rating curve extended as explained below; minimum daily, 0.30 ft³/s (0.008 m³/s) Oct. 4, 5.

Period of record: Maximum discharge, 665 ft³/s (18.8 m³/s) Feb. 27, 1973 (gage height, 7.15 ft or 2.179 m), from rating curve extended above 53 ft³/s (1.50 m³/s) on basis of slope-area measurements at gage heights 3.92 ft (1.195 m) and 6.02 ft (1.835 m); minimum daily, 0.10 ft³/s (0.003 m³/s) Oct. 1-3, 11, 15-20, 1971.

REMARKS.--Records fair. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.35	.50	.41	4.4	7.8	70	227	3.2	.75	.59	.55	.50
2	.40	.50	3.2	2.7	1.8	25	18	3.2	.82	.56	.60	.57
3	.40	.50	2.1	6.2	1.6	26	7.1	3.0	.73	.57	.56	.48
4	.30	.50	1.8	2.6	1.4	4.8	4.9	3.0	.68	.61	.59	.51
5	.30	1.50	1.4	1.2	1.4	3.6	5.4	3.0	.70	.56	.56	.54
6	2.0	.80	1.2	7.9	1.2	3.2	3.5	3.0	.71	.49	.66	.59
7	20	10	1.0	11	1.2	18	3.0	2.2	.74	.50	.58	.55
8	5.0	4.0	.96	3.5	1.1	3.3	3.0	1.0	.86	17	.55	.52
9	2.0	20	.84	2.9	1.1	2.5	22	.97	.82	1.8	.54	.54
10	.40	40	.78	2.5	1.0	2.3	3.0	.94	.73	.50	.55	.53
11	.40	60	14	3.2	1.0	5.3	2.6	1.1	.73	.50	.54	.54
12	.40	10	1.4	2.4	9.6	2.4	2.4	1.0	.62	.50	.50	.46
13	.40	3.5	14	2.0	1.2	1.9	2.1	.89	.58	.50	.51	.40
14	.40	1.4	1.6	4.5	1.1	1.8	2.0	.88	.65	.50	.52	.43
15	.40	.90	1.2	2.1	.96	1.8	2.0	.86	.67	.50	.46	.44
16	.40	37	1.0	37	6.0	1.7	2.3	.92	.60	.50	.46	.41
17	.40	28	3.0	11	1.0	1.5	2.0	.76	.61	.50	.46	.40
18	.40	4.2	.96	10	1.1	1.5	3.9	.73	3.1	.50	.49	.90
19	.50	1.6	.90	12	23	1.4	2.0	.84	.57	.58	.45	.43
20	.50	6.6	.78	4.0	1.8	1.4	2.0	.72	.64	.58	.44	.43
21	.50	1.4	20	2.9	3.0	1.2	1.9	.77	.90	.59	.53	.49
22	15	5.8	2.9	2.5	1.4	1.2	1.8	.76	.82	.58	.50	.46
23	2.0	1.3	1.5	2.4	1.3	1.2	17	.77	.58	.59	.59	.45
24	1.0	1.2	1.3	2.1	1.1	1.2	9.2	.74	.74	.64	.54	.43
25	.50	4.9	1.3	2.0	1.1	14	3.3	.89	.56	.64	.52	.41
26	.50	1.1	98	1.8	1.3	2.1	3.5	.92	.78	.81	.46	.38
27	.50	.73	97	1.7	1.0	38	3.2	.95	.57	.61	.49	.45
28	.50	.73	17	1.6	26	32	3.0	.66	.86	.73	.45	.46
29	.50	1.1	40	1.5	-----	9.1	3.0	.69	.74	.77	.43	.44
30	.50	93	6.0	1.4	-----	20	3.2	.70	.57	.74	.43	.53
31	.50	-----	12	6.9	-----	3.5	-----	.71	-----	.61	.52	-----
TOTAL	57.35	570.46	390.12	249.9	102.56	302.9	369.3	40.77	23.43	35.65	16.03	14.67
MEAN	1.85	19.0	12.6	8.06	3.66	9.77	12.3	1.32	.78	1.15	.52	.49
MAX	20	150	98	62	26	70	227	3.2	3.1	17	.66	.90
MIN	.30	.50	.78	1.4	.96	1.2	1.8	.66	.56	.49	.43	.38
AC-FT	114	1,130	774	496	203	601	733	81	46	71	32	29

CAL YR 1973 TOTAL 2,750.97 MEAN 7.54 MAX 151 MIN .30 AC-FT 5,460
 WTR YR 1974 TOTAL 2,173.14 MEAN 5.95 MAX 227 MIN .30 AC-FT 4,310

PEAK DISCHARGE (BASE, 400 FT ³ /S)				NOTE.--No gage-height record Oct. 2 to Nov. 12.			
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-16	0515	4.99	428	3-28	0015	4.94	421
11-30	2240	5.65	508	4-1	1115	5.77	523
12-26	2100	5.46	485				

11181040 SAN LORENZO CREEK AT SAN LORENZO, CALIF.

LOCATION.--Lat 37°41'03", long 122°08'20", in San Lorenzo (Soto) Grant, Alameda County, on left bank 400 ft (122 m) downstream from Washington Avenue bridge in San Lorenzo, and 1.6 mi (2.6 km) upstream from mouth.

DRAINAGE AREA.--44.6 mi² (115.5 km²).

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 6.13 ft (1.868 m) above mean sea level (levels by Alameda County Flood Control and Water Conservation District).

AVERAGE DISCHARGE.--7 years, 24.6 ft³/s (0.697 m³/s), 17,820 acre-ft/yr (22.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,960 ft³/s (112 m³/s) Apr. 1 (gage height, 8.22 ft or 2.505 m), from rating curve extended above 1,200 ft³/s (34.0 m³/s); minimum daily, 0.80 ft³/s (0.023 m³/s) Oct. 19-21.
Period of record: Maximum discharge, 3,960 ft³/s (112 m³/s) Apr. 1, 1974 (gage height, 8.22 ft or 2.505 m), from rating curve extended above 1,200 ft³/s (34.0 m³/s); minimum daily, 0.05 ft³/s (0.001 m³/s) Oct. 23, 1968.

REMARKS.--Records fair. Flow partly regulated by Cull Creek Reservoir beginning in October 1962, capacity, 310 acre-ft (382,000 m³) and Don Castro Reservoir 7 mi (11 km) upstream beginning in January 1965, capacity, 380 acre-ft (469,000 m³). A few very small diversions above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.0	500	96	58	500	1,400	22	9.1	3.0	1.9	2.4
2	1.1	1.2	70	66	38	350	390	22	8.6	2.6	1.8	1.4
3	1.1	3.0	45	250	35	230	178	20	8.2	2.2	1.7	1.2
4	1.0	2.0	36	230	34	108	117	20	7.9	1.8	1.4	1.2
5	.90	175	32	149	33	75	98	20	7.7	1.7	1.3	1.4
6	3.0	130	28	131	30	66	75	19	8.0	1.7	1.3	1.4
7	28	18	26	145	29	98	66	18	8.2	2.0	1.3	1.3
8	10	8.0	27	94	30	65	63	18	7.4	15	1.3	1.4
9	4.0	30	26	75	33	51	120	16	7.1	10	1.3	1.5
10	2.5	60	24	69	33	46	58	14	6.8	7.3	1.7	1.5
11	2.0	90	57	64	33	54	52	14	6.5	3.2	2.0	1.5
12	1.8	75	26	62	52	51	45	14	6.4	2.0	1.7	1.3
13	1.6	15	57	55	36	46	40	13	6.4	1.8	1.8	1.2
14	1.4	7.6	29	57	34	45	37	13	6.2	1.8	1.9	1.2
15	1.2	4.2	25	53	31	37	35	13	6.0	2.0	1.8	1.3
16	1.1	88	24	158	39	29	33	13	5.9	2.3	1.8	1.8
17	.90	73	32	146	28	32	33	12	6.3	2.1	1.7	2.4
18	.90	30	38	111	28	35	34	12	7.5	2.0	1.8	1.8
19	.80	12	34	119	95	39	35	12	6.5	1.9	1.7	1.4
20	.80	18	15	79	31	39	28	12	5.4	2.0	1.6	1.4
21	.80	11	65	67	32	29	26	14	4.3	1.7	2.3	1.6
22	20	15	45	62	29	30	25	13	3.7	2.2	1.5	1.1
23	8.0	7.7	33	58	25	31	48	12	3.5	2.1	1.1	1.1
24	5.0	5.9	32	53	24	32	42	11	3.1	1.7	1.1	1.1
25	3.0	15	32	49	24	65	29	10	3.0	1.5	1.3	1.1
26	1.8	10	300	46	24	38	29	11	3.0	1.3	2.4	1.1
27	1.6	6.3	648	44	24	77	26	11	2.8	1.5	2.6	1.2
28	1.4	5.5	206	44	80	182	25	12	2.7	1.6	3.0	1.1
29	1.2	6.6	320	40	-----	82	23	11	2.5	1.7	1.7	1.2
30	1.0	220	147	40	-----	135	22	10	2.7	2.0	1.9	1.4
31	1.0	-----	115	51	-----	70	-----	9.5	-----	2.2	1.8	-----
TOTAL	110.10	1,144.0	3,094	2,763	1,022	2,767	3,232	441.5	173.4	87.9	53.5	42.0
MEAN	3.55	38.1	99.8	89.1	36.5	89.3	108	14.2	5.78	2.84	1.73	1.40
MAX	28	220	648	250	95	500	1,400	22	9.1	15	3.0	2.4
MTN	.80	1.0	15	40	24	29	22	9.5	2.5	1.3	1.1	1.1
AC-FT	218	2,270	6,140	5,480	2,030	5,490	6,410	876	344	174	106	83
CAL YR 1973	TOTAL	17,524.59	MEAN	48.0	MAX	1,330	MIN	.80	AC-FT	34,760		
WTR YR 1974	TOTAL	14,930.40	MEAN	40.9	MAX	1,400	MIN	.80	AC-FT	29,610		

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-30	2300	6.48	2,000	3-1	2300	5.65	1,200
12-27	0115	6.20	1,740	4-1	1500	8.22	3,960
1-3	1630	5.30	891				

NOTE.--No gage-height record Oct. 3 to Nov. 14.

CASTRO CREEK BASIN

11181400 WILDCAT CREEK AT RICHMOND, CALIF.

LOCATION.--Lat 37°57'41", long 122°21'33", in San Pablo Grant, Contra Costa County, on left bank 200 ft (61 m) downstream from Southern Pacific Railway bridge at east city limits of Richmond, and 2 mi (3 km) upstream from mouth.

DRAINAGE AREA.--8.69 mi² (22.51 km²).

PERIOD OF RECORD.--July 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 20.62 ft (6.285 m) above mean sea level.

AVERAGE DISCHARGE.--10 years, 5.52 ft³/s (0.156 m³/s), 4,000 acre-ft/yr (4.93 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 523 ft³/s (14.8 m³/s) Apr. 1 (gage height, 8.77 ft or 2.673 m); no flow many days.

Period of record: Maximum discharge, 776 ft³/s (22.0 m³/s) Jan. 21, 1970 (gage height, 9.90 ft or 3.018 m); maximum gage height, 10.30 ft (3.139 m) Jan. 16, 1973; no flow many days in each year.

REMARKS.--Records good. Minor storage in Lake Anza and Jewel Lake. No diversion above station.

REVISIONS (WATER YEARS).--WRD Calif. 1973: 1970(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	99	8.4	15	118	245	4.1	2.4	7.1	.20	.01
2	0	2.2	19	6.4	9.3	89	55	3.7	2.4	7.5	.20	0
3	0	2.4	9.0	40	7.5	110	28	3.6	3.2	7.1	.20	0
4	0	2.4	6.4	43	6.8	28	21	3.5	3.2	7.9	.20	0
5	0	35	5.0	20	6.4	18	20	3.6	4.4	8.3	.20	0
6	0	16	3.9	27	5.7	14	18	3.8	3.5	7.9	.20	0
7	5.2	2.7	3.1	27	5.6	22	15	3.4	3.8	7.5	.05	0
8	.05	.71	2.7	17	8.5	17	13	3.6	3.5	16	.16	0
9	0	5.7	2.4	13	4.4	11	16	3.5	3.8	4.7	.01	0
10	0	20	2.0	11	3.8	9.1	12	2.8	3.2	.82	.01	0
11	0	22	9.2	11	3.6	12	10	2.4	3.2	.36	.07	0
12	0	38	4.3	13	6.4	15	9.0	2.2	3.5	.20	.16	0
13	0	8.3	9.5	9.7	3.7	9.4	8.2	1.8	4.1	.20	.12	0
14	0	3.5	3.1	20	3.4	7.6	7.8	1.9	3.8	.20	.12	0
15	0	2.3	1.8	16	4.3	6.6	7.1	1.9	4.1	.12	.12	0
16	0	55	1.4	49	5.5	5.9	6.7	1.9	4.4	.12	.12	0
17	0	46	3.2	35	3.8	5.3	6.2	1.9	4.4	.16	.16	0
18	0	19	1.7	30	3.7	5.0	5.8	2.0	5.3	.12	.20	0
19	0	9.9	1.2	26	40	4.5	5.3	2.2	4.7	.12	.43	.30
20	0	6.8	1.0	20	12	3.8	5.1	2.2	4.4	.12	.16	.07
21	0	5.0	20	16	10	3.5	4.9	2.0	4.7	.12	.01	.05
22	.05	7.9	16	14	8.7	3.3	4.8	1.8	4.4	.16	0	.01
23	.04	4.1	5.0	13	7.5	3.2	9.9	1.8	4.7	.12	0	0
24	0	2.9	3.4	10	6.8	3.0	21	1.6	5.3	.05	0	0
25	0	2.9	2.7	8.0	6.4	14	8.3	1.6	6.0	.07	0	0
26	0	2.4	21	9.7	6.4	8.9	8.6	1.8	6.4	.01	0	0
27	0	1.8	47	8.7	6.2	25	6.1	1.8	5.3	.03	0	0
28	0	1.5	17	8.3	16	51	5.3	2.0	4.1	.12	0	0
29	0	1.2	8.8	7.9	-----	31	4.6	2.2	4.7	.12	.01	0
30	0	74	6.3	7.7	-----	89	3.9	2.2	5.7	.25	.01	0
31	0	-----	9.6	10	-----	23	-----	2.2	-----	.20	0	-----
TOTAL	5.34	401.61	345.7	555.8	227.4	766.1	591.6	77.0	126.6	77.79	3.12	.44
MFAN	.17	13.4	11.2	17.9	8.12	24.7	19.7	2.48	4.22	2.51	.10	.015
MAX	5.2	74	99	49	40	118	245	4.1	6.4	16	.43	.30
MIN	0	0	1.0	6.4	3.4	3.0	3.9	1.6	2.4	.01	0	0
AC-FT	11	797	686	1,100	451	1,520	1,170	153	251	154	6.2	.9

CAL YR 1973 TOTAL 3,790.87 MEAN 10.4 MAX 300 MIN 0 AC-FT 7,520
WTR YR 1974 TOTAL 3,178.50 MEAN 8.71 MAX 245 MIN 0 AC-FT 6,300

PEAK DISCHARGE (BASE, 150 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-17	1245	6.03	179	3-28	0045	5.93	167
11-30	2300	7.52	372	3-30	0400	6.47	234
3-3	0345	7.09	318	4-1	1115	8.77	523

11182030 RHEEM CREEK AT SAN PABLO, CALIF.

LOCATION.--Lat 37°58'38", long 122°21'10", in San Pablo Grant, Contra Costa County, on left bank 50 ft (15 m) downstream from Santa Fe Railway bridge at San Pablo, and 0.7 mi (1.1 km) upstream from mouth.

DRAINAGE AREA.--1.49 mi² (3.86 km²).

PERIOD OF RECORD.--December 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 13.63 ft (4.154 m) above mean sea level (Corps of Engineers bench mark). Prior to Aug. 13, 1965, at site 0.2 mi (0.3 km) upstream at datum 7.74 ft (2.359 m) higher.

AVERAGE DISCHARGE.--13 years (1961-74), 1.46 ft³/s (0.0413 m³/s), 1,060 acre-ft/yr (1.31 km³/yr).

EXTREMES.--Current year: Maximum discharge, 348 ft³/s (9.86 m³/s) Nov. 17 (gage height, 6.11 ft or 1.862 m), from rating curve extended above 150 ft³/s (4.25 m³/s); minimum daily, 0.01 ft³/s (<0.001 m³/s) July 11.
Period of record: Maximum discharge, 477 ft³/s (13.5 m³/s) Dec. 20, 1969 (gage height, 6.95 ft or 2.118 m), from rating curve extended above 150 ft³/s (4.25 m³/s); no flow at times.

REMARKS.--Records fair. Low flow affected by return flow from industrial waste, leakage, and infrequent releases from off-stream North Reservoir.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	.04	15	.71	4.0	15	26	.47	.17	.04	.17	.17
2	.04	.04	1.5	.47	.49	4.9	1.9	.61	.17	.15	.24	.24
3	.10	.02	.79	22	.42	5.9	.81	.54	.20	.29	.12	.14
4	.12	.03	.60	6.4	.39	1.4	.62	.47	.12	.08	.12	.34
5	.16	34	.51	2.6	.36	.65	1.3	.54	.20	.10	.17	.24
6	.08	8.5	.44	5.3	.37	.42	1.1	.61	.20	.10	.10	.34
7	8.2	2.2	.40	3.5	.42	5.3	.87	.54	.20	.10	.14	.20
8	1.6	.37	.37	1.1	.42	.80	.63	.86	.17	15	.14	.20
9	.07	8.9	.35	.75	.37	.47	3.1	.77	.17	1.3	.24	.34
10	.05	21	.32	.62	.42	.41	.48	.95	.29	.02	.14	.24
11	.05	21	4.9	1.3	.42	3.4	.43	1.1	.14	.01	.12	.54
12	.04	6.9	.46	2.2	2.2	1.3	.39	.68	.20	.03	.10	.34
13	.04	2.5	6.4	.69	.42	.46	.38	.47	.20	.02	.08	.54
14	.04	.69	.61	9.0	.37	.41	.35	.54	.24	.03	.14	.29
15	.04	.57	.45	1.8	.32	.41	.34	.47	.12	.03	.29	.17
16	.04	30	.42	20	1.5	.37	.56	.54	.10	.04	.14	.47
17	.06	28	1.7	3.1	.37	.35	.47	.54	.10	.10	.10	.29
18	.04	2.3	.43	7.6	.37	.36	.49	.08	.10	.10	.12	.29
19	.05	.69	.40	1.7	14	.35	.42	.08	.10	.14	.17	.29
20	.04	1.3	.39	.96	.47	.30	.50	.12	.12	.12	.17	.77
21	.23	.50	13	.83	1.2	.31	.40	.14	.10	.14	.20	.14
22	9.4	4.1	1.8	.55	.42	.28	.49	.24	.04	.20	.24	.14
23	1.0	.61	.66	.52	.37	.28	4.2	.20	.03	.20	.20	.29
24	.08	.44	.56	.50	.32	.28	8.4	.20	.06	.29	.34	.39
25	.07	.71	.47	.49	.37	7.6	.65	.17	.06	.34	.20	.20
26	.06	.38	16	.42	.37	1.0	2.3	.20	.14	.47	.40	.67
27	.06	.35	7.5	.40	.32	20	.47	.29	.06	.17	.12	.22
28	.04	.35	2.0	.40	7.5	10	.61	.12	.18	.17	.14	.20
29	.06	.35	.95	.40	-----	15	.54	.12	.08	.34	.24	.22
30	.04	34	.64	.45	-----	17	.47	.34	.03	.17	.20	.36
31	.07	-----	1.8	2.0	-----	1.3	-----	.29	-----	.24	.14	-----
TOTAL	22.03	210.94	81.82	98.76	38.97	116.01	59.67	13.29	4.09	20.53	5.43	9.27
MEAN	.71	7.03	2.64	3.19	1.39	3.74	1.99	.43	.14	.66	.18	.31
MAX	9.4	34	16	22	14	20	26	1.1	.29	.15	.40	.77
MIN	.04	.02	.32	.40	.32	.28	.34	.08	.03	.01	.08	.14
AC-FT	44	418	162	196	77	230	118	26	8.1	41	11	18
CAL YR 1973	TOTAL 935.00	MEAN 2.56	MAX 72	MIN .02	AC-FT 1,850							
WTR YR 1974	TOTAL 680.71	MEAN 1.87	MAX 34	MIN .01	AC-FT 1,350							

PEAK DISCHARGE (BASE, 150 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
10-22	1945	4.75	178	11-30	2100	5.04	210
11-10	0830	4.48	151	3-27	2200	4.68	171
11-17	1215	6.11	348				

11182100 PINOLE CREEK AT PINOLE, CALIF.

LOCATION.--Lat 37°58'21", long 122°14'43", in Pinole Grant, Contra Costa County, on left bank 0.2 mi (0.3 km) downstream from county bridge on Pinole Valley Road, 0.8 mi (1.3 km) upstream from Pinole city boundary.

DRAINAGE AREA.--10.0 mi² (25.9 km²).

PERIOD OF RECORD.--December 1938 to current year. Monthly discharge only for water years 1939-59, published in WSP 1735.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 170 ft (52 m), from topographic map.

AVERAGE DISCHARGE.--35 years (1939-74), 3.95 ft³/s (0.112 m³/s), 2,860 acre-ft/yr (3.53 km³/yr).

EXTREMES.--Current year: Maximum discharge, 778 ft³/s (22.0 m³/s) Mar. 1 (gage height, 7.07 ft or 2.155 m); minimum daily, 0.04 ft³/s (0.001 m³/s) Oct. 6.
Period of record: Maximum discharge, 1,660 ft³/s (47.0 m³/s) Apr. 2, 1958 (gage height, 11.63 ft or 3.545 m); no flow at times.

REMARKS.--No storage or diversion above station except for minor stock ponds; some inflow from ground-water withdrawals during irrigation season.

COOPERATION.--Records furnished by East Bay Municipal Utility District and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WRD Calif. 1972: 1970.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.14	.26	96	5.9	7.6	332	174	4.6	2.5	.92	.39	.35
2	.14	.31	8.0	3.9	5.4	165	42	4.5	2.5	.81	.48	.31
3	.13	.33	4.0	71	4.8	135	21	4.4	2.1	.69	.46	.29
4	.10	.35	2.8	43	4.6	33	15	4.4	1.6	.75	.44	.27
5	.08	1.2	2.2	15	4.5	20	13	4.2	1.5	.78	.46	.25
6	.04	3.4	1.7	35	4.2	17	12	4.2	1.3	.78	.44	.21
7	.09	.73	1.6	36	4.2	20	10	3.8	1.4	.81	.37	.17
8	.15	.58	1.5	13	4.1	17	9.6	3.6	1.2	1.5	.39	.17
9	.12	.65	1.4	9.0	4.1	11	11	3.2	1.1	1.4	.39	.21
10	.06	4.4	1.4	7.6	4.1	10	8.6	3.2	1.2	1.1	.42	.17
11	.53	5.4	5.0	7.1	4.0	11	7.6	3.2	1.2	.94	.41	.17
12	.30	5.0	2.3	9.0	5.5	14	6.8	3.1	1.2	.84	.40	.16
13	.19	.87	9.0	6.5	4.6	9.0	6.5	3.1	1.0	.78	.44	.23
14	.16	1.3	3.2	20	4.1	8.2	6.1	3.1	1.1	.69	.39	.26
15	.15	.60	2.3	11	4.0	7.6	5.9	3.1	1.1	.69	.35	.23
16	.17	5.1	2.0	56	4.2	7.2	5.9	3.0	1.2	.66	.37	.31
17	.15	8.1	2.3	22	3.9	6.8	5.9	2.8	1.3	.66	.34	.31
18	.14	3.2	1.8	18	3.8	6.5	5.9	2.8	1.3	.66	.25	.27
19	.19	.98	1.7	16	18	6.3	5.7	3.2	1.3	.60	.27	.29
20	.21	.75	1.7	11	5.0	5.9	5.6	3.1	1.1	.55	.27	.29
21	.23	.72	15	8.2	4.6	5.7	5.4	3.1	1.1	.55	.21	.25
22	.45	.81	8.8	6.8	4.2	5.7	5.4	3.0	1.0	.55	.21	.25
23	1.7	.78	4.0	6.5	4.0	5.7	6.1	2.8	.98	.51	.19	.27
24	.44	.66	3.1	6.1	3.9	5.7	11	2.7	.98	.48	.19	.31
25	.35	.63	2.9	5.9	3.8	11	5.7	2.6	.96	.46	.14	.31
26	.33	.63	24	5.6	3.8	7.6	6.1	2.6	.96	.44	.14	.33
27	.31	.60	36	5.4	3.6	35	5.6	2.4	.90	.51	.23	.35
28	.29	.60	12	5.4	48	38	5.2	2.4	.90	.55	.27	.33
29	.25	.60	7.3	5.2	-----	24	4.6	2.6	.82	.39	.29	.35
30	.19	67	5.4	5.2	-----	106	4.6	2.6	.85	.38	.33	.31
31	.17	-----	5.2	5.3	-----	18	-----	2.6	-----	.49	.39	-----
TOTAL	7.95	116.54	275.6	481.6	180.6	1,104.9	437.8	100.0	37.65	21.92	10.32	7.98
MFAN	.26	3.88	8.89	15.5	6.45	35.6	14.6	3.23	1.26	.71	.33	.27
MAX	1.7	67	96	71	48	332	174	4.6	2.5	1.5	.48	.35
MIN	.04	.26	1.4	3.9	3.6	5.7	4.6	2.4	.82	.38	.14	.16
AC-FT	16	231	547	955	358	2,190	868	198	75	43	20	16
CAL YR 1973	TOTAL 3,329.68 MEAN 9.12 MAX 337 MIN .02 AC-FT 6,600											
WTR YR 1974	TOTAL 2,782.86 MEAN 7.62 MAX 332 MIN .04 AC-FT 5,520											

PEAK DISCHARGE (BASE, 200 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-30	2300	5.24	456	3-1	2030	7.07	778
1-3	1520	3.97	249	3-27	2300	4.36	312
1-16	1300	3.87	233	4-1	1200	5.14	439

11182400 ARROYO DEL HAMBRE AT MARTINEZ, CALIF.

LOCATION.--Lat 38°00'12", long 122°07'44", in Las Juntas Grant, Contra Costa County, on right bank 40 ft (12 m) upstream from D Street Bridge in Martinez.

DRAINAGE AREA.--15.1 mi² (39.1 km²).

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 48.33 ft (14.731 m) above mean sea level (levels by Contra Costa County Flood Control District).

AVERAGE DISCHARGE.--10 years, 4.67 ft³/s (0.132 m³/s), 3,380 acre-ft/yr (4.17 km³/yr).

EXTREMES.--Current year: Maximum discharge, 342 ft³/s (9.69 m³/s) Nov. 30 (gage height, 4.27 ft or 1.301 m); minimum daily, 0.05 ft³/s (0.001 m³/s) Oct. 1-4, 6.
Period of record: Maximum discharge, 1,960 ft³/s (55.5 m³/s) Jan. 18, 1973 (gage height, 10.93 ft or 3.331 m), from rating curve extended above 540 ft³/s (15.3 m³/s) on basis of slope-area measurement at gage height 9.62 ft (2.932 m); no flow at times.

REMARKS.--Records good. No regulation or diversion above station.

REVISIONS (WATER YEARS).--WRD Calif. 1969: 1967(M).

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	.40	.58	4.9	7.8	182	89	4.6	2.1	.69	.29	.25
2	.05	.40	5.4	3.4	5.6	98	24	4.5	2.1	.54	.28	.25
3	.05	.41	3.2	32	5.2	90	16	4.3	2.1	.48	.28	.29
4	.05	.47	2.6	19	5.2	24	13	4.3	1.8	.56	.27	.27
5	.06	8.1	2.2	8.8	4.8	18	12	3.9	1.7	.42	.26	.20
6	.05	5.2	1.9	21	4.6	15	11	3.8	1.8	.38	.25	.14
7	1.4	1.0	1.9	25	4.8	16	10	3.7	1.8	.42	.25	.18
8	.22	.52	1.7	10	4.6	13	9.8	3.5	1.7	1.7	.24	.22
9	.12	4.9	1.6	7.9	4.7	10	12	3.4	1.4	1.1	.23	.15
10	.09	7.5	1.6	6.9	4.6	9.7	9.0	3.4	1.5	.50	.22	.10
11	.12	17	6.2	7.5	4.6	10	8.4	3.3	1.4	.36	.21	.10
12	.11	1.8	2.0	9.1	7.5	10	8.0	3.2	1.2	.37	.20	.08
13	.10	2.2	5.5	6.6	4.9	8.7	7.3	3.2	1.1	.47	.20	.12
14	.12	1.4	2.3	13	4.3	8.3	7.0	3.1	.95	.48	.20	.13
15	.09	.79	1.9	9.3	4.1	7.9	6.8	3.0	.92	.45	.22	.22
16	.10	7.5	1.9	36	4.0	7.6	6.8	3.1	1.0	.54	.25	.23
17	.09	12	2.2	15	4.0	7.4	6.4	3.0	.98	.54	.28	.22
18	.11	3.1	1.9	12	3.9	7.1	6.4	2.8	.79	.63	.30	.22
19	.12	1.2	1.8	12	13	6.9	6.3	2.7	.84	.81	.30	.21
20	.12	1.0	1.7	9.4	4.7	6.4	6.0	2.6	.68	.60	.28	.21
21	.13	.90	13	8.0	4.2	6.3	5.7	2.6	.84	.50	.13	.21
22	5.7	1.4	6.3	7.3	4.1	6.2	5.6	2.5	.82	.45	.09	.21
23	2.1	.93	2.8	7.0	3.9	6.1	6.9	2.4	.86	.40	.10	.21
24	.31	.82	2.4	6.7	3.9	5.9	8.0	2.3	.76	.38	.12	.16
25	.38	.74	2.3	6.6	3.9	12	5.7	2.2	.83	.36	.16	.17
26	.65	.69	22	6.2	3.8	7.5	6.8	2.2	.86	.35	.17	.22
27	.51	.61	27	5.8	3.6	17	5.4	2.1	.80	.34	.17	.23
28	.40	.60	7.5	5.8	40	26	5.1	1.8	.72	.33	.19	.22
29	.37	.79	5.5	5.8	-----	15	4.8	2.1	.52	.32	.15	.22
30	.35	47	4.1	5.5	-----	60	4.6	2.1	.54	.31	.20	.14
31	.37	-----	5.0	6.2	-----	12	-----	1.9	-----	.30	.31	-----
TOTAL	14.49	131.37	205.4	339.7	175.2	730.0	333.8	93.6	35.43	16.08	6.80	5.78
MEAN	.47	4.38	6.63	11.0	6.26	23.6	11.1	3.02	1.18	.52	.22	.19
MAX	5.7	47	58	36	40	182	89	4.6	2.1	1.7	.31	.29
MIN	.05	.40	1.6	3.4	3.6	5.9	4.6	1.8	.52	.30	.09	.08
AC-FI	29	261	407	674	348	1,450	662	186	70	32	13	11

CAL YR 1973 TOTAL 3,331.35 MEAN 9.13 MAX 405 MIN .05 AC-FT 6,610
WTR YR 1974 TOTAL 2,087.65 MEAN 5.72 MAX 182 MIN .05 AC-FT 4,140

PEAK DISCHARGE (BASE, 150 FT³/S)
DATE TIME G.H. DISCHARGE DATE TIME G.H. DISCHARGE
11-30 2345 4.27 342 3-30 0445 3.60 194
1-3 1815 3.44 167 4-1 1145 4.20 327
3-1 2230 4.23 334

NOTE.--No gage-height record July 19 to Aug. 20.

PACHECO CREEK BASIN

11182500 SAN RAMON CREEK AT SAN RAMON, CALIF.

LOCATION.--Lat 37°46'23", long 121°59'37", in sec.8, T.2 S., R.1 W., Contra Costa County, on right bank 0.2 mi (0.3 km) downstream from Bollinger Creek, and 1.0 mi (1.6 km) southwest of San Ramon.

DRAINAGE AREA.--5.89 mi² (15.26 km²).

PERIOD OF RECORD.--October 1952 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 530 ft (162 m), from topographic map.

AVERAGE DISCHARGE.--22 years, 2.98 ft³/s (0.0844 m³/s), 2,160 acre-ft/yr (2.66 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 356 ft³/s (10.1 m³/s) Nov. 30 (gage height, 4.71 ft or 1.436 m), from rating curve extended as explained below; minimum daily, 0.01 ft³/s (<0.001 m³/s) Oct. 1, 6.
Period of record: Maximum discharge, 1,600 ft³/s (45.3 m³/s) Oct. 13, 1962 (gage height, 16.98 ft or 5.176 m), from rating curve extended above 90 ft³/s (2.55 m³/s) on basis of indirect measurements of maximum flow through culvert at gage heights 12.09 ft (3.685 m) and 16.98 ft (5.176 m); no flow for parts of most years.

REMARKS.--Records good. No regulation or diversion above station.

REVISIONS (WATER YEARS).--WSP 1445: 1953-54(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.07	61	12	8.0	100	144	4.1	1.7	.68	.39	.25
2	.02	.10	6.7	8.9	6.0	56	41	4.2	1.7	.58	.27	.20
3	.06	.11	4.3	15	5.8	39	25	4.1	1.7	.58	.25	.17
4	.05	.12	3.9	22	5.2	19	20	3.9	1.6	.58	.24	.16
5	.02	3.1	3.8	16	4.8	15	17	3.9	1.4	.55	.21	.12
6	.01	5.8	3.3	16	4.6	14	15	3.9	1.4	.61	.20	.10
7	.58	.58	3.1	18	4.4	15	13	3.7	1.4	.64	.18	.08
8	.78	.33	3.0	13	4.2	12	12	3.5	1.2	1.4	.20	.08
9	.51	.34	2.7	12	4.2	10	17	3.4	1.2	1.1	.23	.11
10	.35	1.2	2.7	10	4.0	9.2	11	3.3	1.1	.77	.27	.07
11	.25	2.5	4.3	9.5	1.8	9.7	10	3.2	1.1	.71	.32	.03
12	.21	8.3	3.0	9.3	9.0	9.1	9.2	3.0	1.2	.65	.32	.02
13	.14	2.4	5.6	8.1	4.0	7.9	8.4	3.0	1.2	.60	.31	.03
14	.14	2.4	3.4	8.5	3.7	7.4	7.8	2.8	1.2	.54	.28	.07
15	.12	1.2	3.0	7.5	3.7	7.0	7.5	2.6	1.1	.49	.28	.11
16	.11	4.7	2.9	25	4.1	6.6	7.0	2.7	1.2	.56	.31	.11
17	.11	13	3.6	18	3.6	6.4	6.8	2.7	1.2	.57	.31	.08
18	.11	4.6	3.0	18	3.6	6.2	6.8	2.6	1.2	.53	.29	.05
19	.13	3.3	2.9	18	16	5.8	6.5	2.5	1.2	.48	.27	.04
20	.14	2.8	2.9	13	4.6	5.5	6.2	2.5	1.1	.46	.21	.07
21	.16	2.1	10	11	4.3	5.4	5.6	2.5	.95	.44	.17	.08
22	.44	1.7	6.2	10	3.9	5.2	5.4	2.3	.91	.41	.14	.09
23	1.5	1.4	4.1	9.4	3.7	5.2	6.6	2.2	.94	.39	.14	.11
24	.35	1.3	4.0	8.7	3.6	4.9	6.0	2.1	.80	.36	.12	.09
25	.23	1.4	3.9	8.3	3.5	6.5	5.1	2.0	.77	.32	.13	.07
26	.17	1.3	27	7.5	3.5	5.4	5.7	1.9	.78	.27	.14	.11
27	.17	1.2	41	6.6	3.4	17	5.0	1.8	.74	.37	.13	.15
28	.14	1.2	17	6.4	22	43	4.5	1.9	.68	.39	.19	.15
29	.13	1.2	44	6.2	-----	16	4.2	1.8	.60	.37	.26	.17
30	.06	31	16	5.9	-----	42	4.1	1.8	.66	.36	.32	.12
31	.03	-----	15	6.5	-----	15	-----	1.7	-----	.37	.31	-----
TOTAL	7.23	100.75	317.3	364.3	155.2	526.4	443.4	87.6	33.93	17.13	7.39	3.09
MEAN	.23	3.36	10.2	11.8	5.54	17.0	14.8	2.83	1.13	.55	.24	.10
MAX	1.5	31	61	25	22	100	144	4.2	1.7	1.4	.39	.25
MIN	.01	.07	2.7	5.9	3.4	4.9	4.1	1.7	.60	.27	.12	.02
AC-FT	14	200	629	723	308	1,040	879	174	67	34	15	6.1

CAL YR 1973 TOTAL 2,234.74 MEAN 6.12 MAX 117 MIN 0 AC-FT 4,430
WTR YR 1974 TOTAL 2,063.72 MEAN 5.65 MAX 144 MIN .01 AC-FT 4,090

PEAK DISCHARGE (BASE, 100 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-30	2330	4.71	356	3-28	0045	3.56	175
12-26	2045	3.38	149	3-30	0300	3.25	131
12-29	0815	3.39	151	4-1	1215	4.67	349
3-1	2245	4.16	269				

LOCATION.--Lat 37°52'38", long 122°02'52", in San Ramon Grant, Contra Costa County, on left bank 600 ft (183 m) upstream from Rudgear Road, near south city limits of town of Walnut Creek.

PERIOD OF RECORD.--October 1952 to current year.

GAGE.--Water-stage recorder. Concrete control since Dec. 4, 1962. Datum of gage is 146.4 ft (44.62 m) above mean sea level (levels by Corps of Engineers). Prior to Dec. 8, 1971, at site 0.6 mi (1.0 km) downstream at different datum.

AVERAGE DISCHARGE.--22 years, 16.2 ft³/s (0.459 m³/s), 11,740 acre-ft/yr (14.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,820 ft³/s (79.9 m³/s) Dec. 1 (gage height, 6.30 ft or 1.920 m), from rating curve extended above 670 ft³/s (19.0 m³/s); minimum daily, 2.3 ft³/s (0.065 m³/s) Oct. 2-4.
Period of record: Maximum discharge, 7,980 ft³/s (226 m³/s) Jan. 31, 1963 (gage height, 14.40 ft or 4.389 m, site and datum then in use), from rating curve extended above 2,200 ft³/s (62.3 m³/s) on basis of computed discharge at gage height 13.16 ft (4.011 m); maximum gage height, 14.55 ft (4.435 m) Dec. 23, 1955, site and datum then in use; no flow at times in most years.

REMARKS.--Records good. No regulation; pumping for irrigation above station during periods of low flow.

REVISIONS (WATER YEARS).--WSP 1395: 1953(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER, 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	2.5	539	42	25	654	686	16	6.6	6.0	4.3	3.4
2	2.3	3.4	32	25	18	400	169	17	6.3	5.9	4.3	3.4
3	2.3	3.1	18	102	17	250	74	16	6.3	5.9	4.1	3.5
4	2.3	3.1	13	105	16	64	56	15	6.4	5.6	4.1	3.4
5	2.4	53	11	58	15	47	50	15	6.0	5.6	4.1	3.4
6	2.5	63	9.8	58	14	39	44	15	5.9	5.5	3.9	3.4
7	6.5	8.4	4.9	88	14	53	39	14	5.8	5.6	3.7	3.1
8	6.7	4.8	8.4	44	14	38	36	14	5.9	12	3.5	2.9
9	4.8	4.3	8.1	32	14	30	73	13	5.8	9.4	3.7	2.9
10	3.4	27	7.6	27	13	27	36	13	5.5	7.2	3.7	2.8
11	3.3	46	29	26	13	32	32	13	5.9	6.1	3.7	2.6
12	3.1	76	12	28	25	31	29	12	5.9	5.4	3.7	2.6
13	2.9	19	33	23	17	25	27	12	6.3	5.1	3.7	2.8
14	2.8	21	13	25	14	24	24	12	6.5	5.1	3.7	2.8
15	2.8	8.7	8.8	26	13	23	24	12	6.2	5.1	3.7	2.9
16	2.6	49	8.2	131	17	23	24	12	5.9	4.9	3.7	3.1
17	2.6	64	13	92	13	21	23	12	5.8	4.7	3.7	2.9
18	2.6	35	9.3	78	12	21	24	12	6.3	4.3	3.7	2.9
19	2.6	12	7.9	60	73	20	23	13	6.2	4.5	3.7	3.1
20	2.5	11	7.6	39	18	18	22	12	7.1	4.5	3.7	3.1
21	2.4	8.8	67	30	16	17	21	12	6.4	4.3	3.5	3.2
22	8.8	11	50	26	15	18	20	12	6.2	4.1	3.5	3.2
23	21	8.2	17	24	13	18	29	11	6.4	4.3	3.5	3.1
24	5.1	7.0	13	23	13	17	29	10	6.5	4.3	3.4	2.9
25	3.4	6.3	12	22	13	34	21	9.0	6.5	4.3	3.4	2.9
26	3.6	6.0	143	21	13	23	24	7.9	6.5	4.3	3.4	3.2
27	3.2	5.1	270	20	12	53	20	8.0	6.5	4.3	3.4	3.1
28	3.0	4.9	62	19	108	262	18	8.1	6.4	4.3	3.4	3.2
29	2.9	5.0	123	19	-----	57	17	7.5	7.1	4.3	3.4	3.2
30	2.8	168	47	18	-----	218	16	6.8	6.4	4.3	3.4	3.1
31	2.5	-----	44	21	-----	50	-----	6.6	-----	4.3	3.4	-----
TOTAL	122.1	744.6	1,645.6	1,352	578	2,611	1,730	368.9	187.8	165.5	116.1	92.1
MEAN	3.94	24.8	53.1	43.6	20.6	84.2	57.7	11.9	6.26	5.34	3.68	3.07
MAX	21	168	539	131	108	658	686	17	7.1	12	4.3	3.5
MIN	2.3	2.5	7.6	18	12	17	16	6.6	5.6	4.1	3.4	2.6
AC-FT	242	1,480	3,260	2,680	1,150	5,180	3,430	732	373	328	226	183

CAL YR 1973	TOTAL	13,291.2	MEAN	36.4	MAX	1,040	MIN	2.3	AC-FT	26,360
WTR YR 1974	TOTAL	9,711.7	MEAN	25.6	MAX	686	MIN	2.3	AC-FT	12,260

PEAK DISCHARGE (BASE, 500 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-1	0115	6.30	2,820	3-28	0230	5.45	930
12-26	2245	4.45	955	3-30	0500	4.84	694
3-1	2200	7.05	1,680	4-1	1400	7.40	1,880

11183600 WALNUT CREEK AT CONCORD, CALIF.

LOCATION.--Lat 37°56'43", long 122°02'55", in Arroyo de las Nueces y Bolbones Grant, Contra Costa County, on right bank at southwest city limits of Concord, 0.2 mi (0.3 km) upstream from Southern Pacific Railroad bridge, and 3.8 mi (6.1 km) downstream from confluence of San Ramon and Las Trampas Creeks.

DRAINAGE AREA.--85.1 mi² (220.4 km²).

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 35.44 ft (10.802 m) above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--6 years, 49.6 ft³/s (1.405 m³/s), 35,940 acre-ft/yr (44.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,670 ft³/s (104 m³/s) Dec. 1 (gage height, 8.50 ft or 2.591 m), from rating curve extended as explained below; minimum daily, 5.1 ft³/s (0.14 m³/s) Oct. 30.

Period of record: Maximum discharge, 8,000 ft³/s (227 m³/s) Feb. 27, 1973 (gage height, 14.0 ft or 4.27 m, estimated), from rating curve extended above 2,500 ft³/s (70.8 m³/s) on basis of computed discharge at gage height 13.7 ft (4.18 m); minimum daily, 3.0 ft³/s (0.085 m³/s) Oct. 27, 28, Oct. 30 to Nov. 1, 1972.

REMARKS.--Records good. Flow slightly regulated by Lafayette Reservoir 10 mi (16 km) upstream, capacity, 4,240 acre-ft (5.23 hm³). Some small diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.7	5.3	934	88	62	1,450	1,180	40	20	15	12	11
2	8.7	5.6	86	54	40	777	305	41	19	16	13	16
3	8.6	5.4	52	219	37	449	187	40	19	16	13	11
4	7.1	5.2	44	194	36	164	142	38	18	15	15	11
5	6.3	150	34	109	35	137	114	38	18	15	12	11
6	6.5	165	23	125	32	115	103	38	18	14	13	11
7	17	21	21	189	31	124	93	36	18	18	12	11
8	15	13	20	97	31	82	87	35	16	29	12	10
9	9.5	18	19	75	31	64	146	32	16	28	12	10
10	7.2	84	18	58	31	58	82	31	16	18	11	11
11	6.6	140	75	59	31	66	70	31	16	15	11	10
12	20	218	26	66	66	69	66	30	16	18	11	11
13	15	31	94	50	40	54	62	30	16	15	11	11
14	7.3	31	33	68	32	51	58	30	17	14	11	11
15	7.6	17	24	60	31	47	56	29	16	14	18	11
16	6.4	162	22	241	43	44	55	27	16	14	12	11
17	6.3	292	32	172	32	42	53	25	16	14	11	11
18	5.5	84	24	154	30	41	59	26	16	14	11	11
19	5.7	29	20	127	152	39	59	27	17	14	11	15
20	5.6	28	20	87	46	36	52	26	17	14	12	25
21	8.1	23	173	69	39	34	54	25	17	13	11	23
22	48	27	115	59	37	34	66	25	16	13	11	25
23	57	21	40	56	35	34	88	25	16	13	12	24
24	15	17	31	52	32	34	86	24	16	13	12	20
25	14	16	29	49	31	82	52	23	16	14	11	11
26	9.3	16	226	46	31	45	57	23	16	13	18	12
27	5.8	16	419	44	31	155	45	23	16	12	11	12
28	5.8	14	119	43	224	415	42	23	17	11	11	15
29	5.4	16	169	42	-----	129	41	23	17	12	10	14
30	5.1	497	88	40	-----	458	40	21	16	13	11	13
31	5.2	-----	92	47	-----	107	-----	22	-----	12	10	-----
TOTAL	359.3	2,166.5	3,127	2,839	1,329	5,436	3,600	907	504	469	372	409
MEAN	11.6	72.2	101	91.6	47.5	175	120	29.3	16.8	15.1	12.0	13.6
MAX	57	497	934	241	224	1,450	1,180	41	20	29	18	25
MIN	5.1	5.2	18	40	30	34	40	21	16	11	10	10
AC-FEET	713	4,300	6,200	5,630	2,640	10,780	7,140	1,800	1,000	930	738	811
CAL YR 1973	TOTAL	29,120.8	MEAN	79.8	MAX	2,130	MIN	5.1	AC-FEET	57,760		
WTR YR 1974	TOTAL	21,517.8	MEAN	59.0	MAX	1,450	MIN	5.1	AC-FEET	42,680		

PEAK DISCHARGE (BASE, 850 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-17	1430	5.29	1,050	3-28	0045	5.77	1,480
12-1	0215	8.50	3,670	3-30	0330	5.93	1,600
12-26	2300	5.63	1,330	4-1	1115	7.50	2,880
3-1	1945	7.28	2,700				

11456000 NAPA RIVER NEAR ST. HELENA, CALIF.

LOCATION.--Lat 38°29'52", long 122°25'37", in Carne Humana Grant, Napa County, on right bank 0.2 mi (0.3 km) upstream from highway bridge, 1.3 mi (2.1 km) northeast of Zinfandel, and 2.5 mi (4.0 km) east of St. Helena.

DRAINAGE AREA.--81.4 mi² (210.8 km²).

PERIOD OF RECORD.--October 1929 to September 1932, October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 172.12 ft (52.462 m) above mean sea level. Prior to Nov. 22, 1958, at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--38 years, 96.6 ft³/s (2.736 m³/s), 69,990 acre-ft/yr (86.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 6,680 ft³/s (189 m³/s) Mar. 30 (gage height, 11.53 ft or 3.514 m); minimum daily, 0.94 ft³/s (0.027 m³/s) Oct. 1.

Period of record: Maximum discharge, 12,600 ft³/s (357 m³/s) Dec. 22, 1955 (gage height, 16.17 ft or 4.929 m, present datum); no flow at times.

REMARKS.--Records good. Some regulation by Bell Canyon Reservoir since 1959, capacity, 2,530 acre-ft (3.12 hm³). Small diversions above station for irrigation of about 1,500 acres (6.07 km²). Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.94	7.0	1,110	220	131	2,340	1,620	40	14	6.7	2.7	4.2
2	1.2	7.0	455	156	100	1,630	875	39	14	5.3	2.9	3.7
3	1.2	8.0	305	289	90	803	542	38	13	5.2	2.7	3.0
4	1.4	7.7	228	529	81	511	398	37	11	5.2	2.8	3.2
5	1.4	35	174	339	73	384	330	35	12	5.0	3.0	2.5
6	1.4	105	137	310	66	312	271	34	11	4.8	3.4	2.1
7	3.8	265	116	290	61	358	228	32	10	5.3	2.5	1.9
8	4.7	98	101	260	56	303	202	31	11	14	2.5	2.1
9	5.2	184	91	230	55	232	235	29	11	14	2.7	2.2
10	8.5	532	82	206	54	202	181	28	11	8.2	2.9	2.7
11	14	1,400	160	198	51	372	159	27	11	8.2	2.8	2.2
12	9.8	1,610	164	300	62	637	142	26	10	7.3	2.7	1.7
13	8.9	982	348	387	59	459	128	25	9.3	7.2	3.3	2.2
14	8.9	697	218	1,040	50	342	116	23	11	7.4	3.6	2.4
15	8.9	408	152	1,540	48	270	105	23	11	5.8	4.4	2.4
16	8.9	1,710	129	1,950	54	227	99	22	11	4.9	4.1	3.0
17	8.9	1,200	164	1,410	48	193	93	22	11	4.7	3.8	3.7
18	8.5	773	134	1,260	51	167	88	20	11	4.8	3.6	3.5
19	8.9	402	113	951	519	136	83	21	11	3.3	2.9	3.2
20	8.9	308	99	613	209	118	77	21	9.7	7.0	2.8	3.0
21	11	233	523	438	159	107	78	20	8.5	4.8	2.7	2.8
22	16	186	553	330	135	98	77	20	9.6	3.7	2.4	2.6
23	31	150	336	270	113	92	74	19	9.6	3.3	2.6	3.2
24	19	134	263	226	98	87	76	17	9.4	3.1	2.4	4.0
25	12	119	208	196	90	112	66	17	9.0	4.4	2.4	3.8
26	10	105	250	168	86	112	53	18	8.8	6.5	3.0	3.4
27	9.3	91	529	144	79	325	52	17	8.9	4.1	3.2	3.3
28	8.5	83	452	131	1,770	683	49	16	5.8	3.6	3.8	3.3
29	7.7	78	445	117	-----	1,620	45	17	4.3	4.1	3.7	3.2
30	7.0	518	348	107	-----	3,160	43	15	6.1	3.6	3.8	3.2
31	7.0	-----	280	113	-----	856	-----	13	-----	2.7	4.1	-----
TOTAL	262.84	12,435.7	8,667	14,718	4,448	17,248	6,585	762	304.0	178.2	96.2	87.7
MEAN	8.48	415	280	475	159	556	220	24.6	10.1	5.75	3.10	2.92
MAX	31	1,710	1,110	1,950	1,770	3,160	1,620	40	14	14	4.4	4.2
MIN	.94	7.0	82	107	48	87	43	13	4.3	2.7	2.4	1.7
AC-FT	521	24,670	17,190	29,190	8,820	34,210	13,060	1,510	603	353	191	174

CAL YR 1973 TOTAL 64,250.03 MEAN 176 MAX 3,400 MIN .29 AC-FT 127,400
WTR YR 1974 TOTAL 65,792.64 MEAN 180 MAX 3,160 MIN .94 AC-FT 130,500

PEAK DISCHARGE (BASE, 4,200 FT³/S).--Feb. 28 (2145) 5,090 ft³/s (9.99 ft); Mar. 30 (0245) 6,680 ft³/s (11.53 ft).

11456500 CONN CREEK NEAR OAKVILLE, CALIF.

LOCATION.--Lat 38°26'50", long 122°22'47", in Caymus Grant, Napa County, on left bank 20 ft (6 m) upstream from Oakville Cross Road bridge, and 1.4 mi (2.3 km) northeast of Oakville.

DRAINAGE AREA.--55.4 mi² (143.5 km²).

PERIOD OF RECORD.--October 1929 to September 1959 (published as "near St. Helena"), October 1970 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 112.18 ft (34.192 m) above mean sea level (levels by county of Napa). November 1929, to Aug. 4, 1952, at site 3.3 mi (5.3 km) upstream at different datum. Aug. 5, 1952, to Sept. 30, 1959, at site 4.9 mi (7.9 km) upstream at different datum.

AVERAGE DISCHARGE (prior to construction of Conn Dam).--16 years (1929-45), 33.9 ft³/s (0.960 m³/s), 24,540 acre-ft/yr (30.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,330 ft³/s (37.7 m³/s) Mar. 30 (gage height, 7.88 ft or 2.402 m); no flow many days.

Period of record: Maximum discharge, 7,700 ft³/s (218 m³/s) Feb. 27, 1940 (gage height, 11.80 ft or 3.597 m, site and datum then in use); no flow many days in each year.

REMARKS.--Records good except those below 5 ft³/s (0.14 m³/s), which are fair. Flow regulated by Lake Hennessey 6.5 mi (10.5 km) upstream beginning in December 1945, capacity, 31,000 acre-ft (38.2 hm³). Diversion for irrigation of about 700 acres (2.83 km²) occurs between dam and gage. Some effluent ground water flows past the station during the summer months at times when the stream is dry a short distance above and below the gage; no flow is computed for these periods.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	107	59	870	553	26	2.9	3.4		
2			0	63	51	824	477	25	2.1	1.5		
3			0	65	44	491	327	23	2.5	1.3		
4			0	266	39	304	244	21	1.8	1.1		
5			0	244	36	216	195	21	2.0	.98		
6			0	182	30	164	162	20	2.3	.98		
7			0	160	24	151	132	18	2.8	1.1		
8			0	132	23	145	107	18	3.2	1.9		
9			0	105	23	113	99	16	3.4	2.3		
10			0	87	23	91	88	13	3.9	2.0		
11			0	74	22	87	74	13	4.5	1.8		
12			0	105	23	102	64	11	4.4	1.8		
13			0	132	26	107	54	10	4.3	1.6		
14			0	215	24	91	50	9.0	2.8	1.0		
15			0	615	22	78	46	7.5	1.6	1.2		
16			0	671	23	67	44	7.5	2.0	1.1		
17			0	901	22	59	44	6.7	2.3	1.7		
18			0	631	20	53	43	3.6	3.6	1.8		
19			0	547	51	45	44	2.5	3.1	1.5		
20			0	382	60	42	39	4.5	3.7	1.4		
21			14	282	44	39	38	3.6	3.2	1.3		
22			252	214	38	37	37	3.1	3.6	1.2		
23			198	168	32	36	37	2.6	3.9	1.1		
24			137	137	28	36	48	2.3	3.9	1.0		
25			94	117	25	45	47	2.3	3.9	.90		
26			76	97	20	57	45	2.2	3.7	.70		
27			184	81	20	64	40	2.3	3.9	.50		
28			194	71	158	220	36	2.3	3.6	.40		
29			190	63	-----	418	32	2.3	3.6	.20		
30			176	57	-----	1,090	29	4.1	3.6	.10		
31		-----	138	53	-----	602	-----	4.9	-----	0		-----
TOTAL	0	0	1,653	7,024	1,010	6,744	3,275	308.3	96.1	38.86	0	0
MFAN	0	0	53.3	227	36.1	218	109	9.95	3.20	1.25	0	0
MAX	0	0	252	901	158	1,090	553	26	4.5	3.4	0	0
MIN	0	0	0	53	20	36	29	2.2	1.6	0	0	0
AC-FT	0	0	3,280	13,930	2,000	13,380	6,500	612	191	77	0	0
CAL YR 1973	TOTAL	18,496.41	MEAN	50.7	MAX	1,380	MIN	0	AC-FT	36,690		
WTR YR 1974	TOTAL	20,149.26	MEAN	55.2	MAX	1,090	MIN	0	AC-FT	39,970		

11458000 NAPA RIVER NEAR NAPA, CALIF.

LOCATION.--Lat 38°22'06", long 122°18'08", in Yajome Grant, Napa County, on left bank at downstream side of Oak Knoll Avenue bridge, 0.4 mi (0.6 km) downstream from Dry Creek, and 5 mi (8 km) north of Napa.

DRAINAGE AREA.--218 mi² (565 km²).

PERIOD OF RECORD.--October 1929 to September 1932, October 1959 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 24.74 ft (7.541 m) above mean sea level.

AVERAGE DISCHARGE.--18 years, 190 ft³/s (5.381 m³/s), 137,700 acre-ft/yr (170 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 9,730 ft³/s (276 m³/s) Mar. 30 (gage height, 18.19 ft or 5.544 m); minimum daily, 3.0 ft³/s (0.085 m³/s) Oct. 2.
Period of record: Maximum discharge, 16,900 ft³/s (479 m³/s) Jan. 31, 1963 (gage height, 27.59 ft or 8.409 m); no flow at times.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Flow slightly regulated by Bell Canyon Reservoir beginning in 1959, capacity, 2,530 acre-ft (3.12 hm³) and Lake Hennessey beginning in December 1945, capacity, 31,000 acre-ft (38.2 hm³). Diversions for irrigation of about 10,000 acres (40.5 km²) above station.

REVISIONS (WATER YEARS).--WSP 1315-B: 1930(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	3.8	1,980	480	358	4,530	3,290	117	43	18	5.2	13
2	3.0	4.1	849	320	306	3,630	2,170	111	40	15	6.7	11
3	3.1	3.8	551	472	279	1,970	1,400	106	41	22	7.6	10
4	3.2	3.9	432	1,130	259	1,260	989	101	39	18	6.2	9.0
5	3.1	32	352	786	240	905	780	98	35	20	5.6	7.8
6	3.5	154	286	669	224	720	660	94	34	18	7.0	8.0
7	3.1	563	237	635	215	725	560	89	33	16	8.9	6.3
8	3.1	256	205	557	196	667	491	86	29	14	6.6	5.1
9	3.5	118	179	499	187	545	499	83	27	30	5.9	5.7
10	3.5	870	163	450	183	479	433	77	25	20	6.5	6.3
11	3.5	1,580	289	431	176	550	386	74	25	14	7.9	7.2
12	3.9	2,450	328	555	183	865	349	71	23	13	7.4	6.2
13	3.8	1,110	587	649	196	725	307	67	16	13	6.7	4.8
14	3.5	1,220	418	1,160	174	599	280	65	19	12	6.6	5.4
15	3.4	626	314	2,790	165	504	260	62	17	11	8.0	6.7
16	3.4	2,370	260	3,370	174	453	240	58	18	14	10	8.0
17	3.4	1,930	296	3,520	166	404	225	54	20	13	13	9.5
18	3.2	1,430	259	2,640	159	368	212	47	18	13	11	11
19	3.3	710	211	2,180	748	323	204	43	15	13	9.5	10
20	3.3	520	180	1,460	442	288	190	46	18	10	8.0	9.2
21	3.5	415	667	1,040	348	263	178	48	16	13	7.0	8.4
22	3.9	328	1,070	779	316	248	171	46	13	10	6.4	7.8
23	4.9	270	672	649	278	236	169	45	15	9.1	6.0	7.3
24	8.5	229	522	561	252	223	174	42	17	8.6	6.7	6.8
25	6.6	196	442	496	238	268	167	40	19	7.3	6.3	8.2
26	4.5	177	458	448	228	286	160	39	22	8.2	6.0	11
27	4.0	152	1,020	399	214	440	149	41	20	7.5	7.3	13
28	3.8	138	837	370	1,530	1,430	139	43	19	8.2	9.1	11
29	3.7	130	851	347	-----	2,200	130	44	16	19	11	9.0
30	3.6	476	700	323	-----	6,350	121	42	14	8.3	8.8	7.4
31	3.7	-----	510	321	-----	2,380	-----	40	-----	6.3	10	-----
TOTAL	117.6	18,465.6	16,125	30,486	8,434	34,834	15,483	2,019	706	422.5	238.9	250.1
MEAN	3.79	616	520	983	301	1,124	516	65.1	23.5	13.6	7.71	8.34
MAX	8.5	2,450	1,980	3,520	1,530	6,350	3,290	117	43	30	13	13
MIN	3.0	3.8	163	320	159	223	121	39	13	6.3	5.2	4.8
AC-FT	233	36,630	31,980	60,470	16,730	69,090	30,710	4,000	1,400	838	474	496

CAL YR 1973 TOTAL 142,997.49 MEAN 392 MAX 8,450 MIN .59 AC-FT 283,600
WTR YR 1974 TOTAL 127,581.70 MEAN 350 MAX 6,350 MIN 3.0 AC-FT 253,100

DATE	TIME	PEAK DISCHARGE (BASE, 5,000 FT ³ /S)	DATE	TIME	PEAK DISCHARGE (BASE, 5,000 FT ³ /S)
1-16	1815	G.H. 14.68 DISCHARGE 6,210	3-30	0700	G.H. 18.19 DISCHARGE 9,730
3-1	0100	G.H. 15.23 DISCHARGE 6,710			

NOTE.--No gage-height record Aug. 3 to Sept. 30.

NAPA RIVER BASIN

11458100 MILLIKEN CREEK NEAR NAPA, CALIF.

LOCATION.--Lat 38°20'19", long 122°16'06", in Yajome Grant, Napa County, on right bank at upstream side of Hedgeside Road bridge, 3.0 mi (4.8 km) northwest of town of Napa.

DRAINAGE AREA.--17.3 mi² (44.8 km²).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 37.68 ft (11.485 m) above mean sea level (levels by county of Napa).

EXTREMES.--Current year: Maximum discharge, 2,850 ft³/s (80.7 m³/s) Mar. 30 (gage height, 5.23 ft or 1.594 m), from rating curve extended as explained below; no flow Oct. 10-12, 20.
Period of record: Maximum discharge, 3,580 ft³/s (101 m³/s) Dec. 3, 1970 (gage height, 5.68 ft or 1.731 m), from rating curve extended above 1,100 ft³/s (31.2 m³/s); maximum gage height, 8.38 ft (2.554 m) Jan. 16, 1973 (backwater from debris); no flow Aug. 12, 1972, Sept. 17, 18, Oct. 10-12, 20, 1973.

REMARKS.--Records good. Flow regulated by Milliken Reservoir, capacity, 2,000 acre-ft (2.47 km³) and by several small lakes and diversion dams on the Silverado Golf Course; diversions above station for irrigation of about 500 acres (2.02 km²). During current year, 1,100 acre-ft (1.36 km³) was diverted for municipal supply of city of Napa.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FER	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.52	.14	269	48	20	370	578	6.5	12	3.1	4.7	2.4
2	.06	.12	75	30	13	260	152	6.5	12	3.8	4.7	3.4
3	1.1	.08	58	98	9.7	120	88	6.5	3.8	1.2	5.9	3.1
4	.94	.02	43	269	8.0	68	68	6.5	1.7	.61	3.8	2.2
5	.61	7.5	35	83	17	55	50	5.9	.85	1.5	3.4	1.7
6	.81	20	28	78	5.9	45	40	5.9	.68	1.3	4.3	1.0
7	1.3	22	23	78	4.7	65	30	1.5	1.7	.61	3.8	1.7
8	1.3	12	21	65	3.1	48	30	1.2	2.7	5.3	4.3	2.4
9	.15	44	20	53	3.1	33	30	.85	3.4	3.4	4.3	2.7
10	0	115	17	43	3.1	30	30	.68	4.3	1.7	4.3	2.7
11	0	193	30	50	2.7	40	30	.61	4.3	1.9	4.3	1.7
12	0	189	23	65	3.4	53	30	.55	2.7	1.5	4.3	2.2
13	.05	72	73	55	3.1	38	30	1.0	2.4	1.0	4.3	2.7
14	.07	34	40	158	2.7	30	30	3.1	2.4	1.0	3.8	2.7
15	.88	17	33	138	2.7	30	30	4.7	2.2	1.2	2.2	1.9
16	.23	185	28	473	3.1	30	28	5.3	2.7	1.2	.14	3.4
17	.47	579	35	341	2.7	30	28	4.3	2.2	.55	.85	3.1
18	1.0	179	28	224	2.7	30	23	4.7	2.4	.31	3.1	2.4
19	.05	65	23	125	30	23	25	6.5	2.4	.49	1.7	2.7
20	0	63	21	85	15	26	23	6.5	2.4	.36	1.5	1.9
21	.47	43	131	65	12	25	18	5.3	2.4	1.5	1.2	1.3
22	2.9	35	98	45	12	14	13	3.8	3.1	.33	1.3	1.2
23	3.2	25	58	40	9.2	14	12	3.1	3.8	.43	1.5	.85
24	1.1	23	43	23	8.7	14	25	2.4	3.8	.76	1.0	2.7
25	.51	18	33	20	8.4	21	26	1.9	4.3	1.0	1.3	2.7
26	.32	17	80	18	7.0	28	26	1.5	4.3	3.4	1.5	3.1
27	.32	14	165	13	6.8	75	23	1.9	3.8	3.1	1.9	1.9
28	.29	13	100	13	180	175	18	2.2	3.8	3.8	2.2	3.1
29	.21	12	137	12	-----	487	15	3.4	3.4	3.8	2.7	2.7
30	.15	149	80	11	-----	940	8.0	3.8	3.8	5.9	2.7	2.4
31	.68	-----	60	12	-----	146	-----	3.4	-----	5.9	1.9	-----
TOTAL	19.69	2,145.86	1,908	2,831	399.8	3,363	1,557.0	111.99	105.73	61.95	88.89	69.95
MEAN	.64	71.5	61.5	91.3	14.3	108	51.9	3.61	3.52	2.00	2.87	2.33
MAX	3.2	579	269	473	180	940	578	6.5	12	5.9	5.9	3.4
MIN	0	.02	17	11	2.7	14	8.0	.55	.68	.31	.14	.85
AC-FT	39	4,260	3,780	5,620	793	6,670	3,090	222	210	123	176	139
CAL YR 1973	TOTAL 13,429.45 MEAN 36.8 MAX 750 MIN 0 AC-FT 26,640											
WTR YR 1974	TOTAL 12,662.86 MEAN 34.7 MAX 940 MIN 0 AC-FT 25,120											

PEAK DISCHARGE (BASE, 600 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-12	0130	3.38	694	1-16	1430	3.60	870
11-17	1400	4.36	1,640	3-1	unknown	4.43	1,730
12-1	0030	3.64	906	3-30	0230	5.23	2,850
1-4	0600	3.30	630	4-1	1115	4.04	1,290
1-14	0230	4.10	1,350				

11458300 NAPA CREEK AT NAPA, CALIF.

LOCATION.--Lat 38°18'07", long 122°18'10", in Napa Grant, Napa County, on left bank 150 ft (46 m) upstream from bridge on State Highway 29 in town of Napa, 0.6 mi (1.0 km) downstream from confluence of Redwood and Browns Creeks.

DRAINAGE AREA.--14.9 mi² (38.6 km²).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 32.60 ft (9.936 m) above mean sea level (levels by county of Napa).

EXTREMES.--Current year: Maximum discharge, 1,200 ft³/s (34.0 m³/s) Nov. 16 (gage height, 7.15 ft or 2.179 m); minimum daily, 0.01 ft³/s (<0.001 m³/s) for many days.
Period of record: Maximum discharge, 2,470 ft³/s (70.0 m³/s) Jan. 18, 1973 (gage height, 10.68 ft or 3.255 m), from rating curve extended above 1,100 ft³/s (31.2 m³/s); no flow for many days in each year.

REMARKS.--Records good except those for period of no gage-height record, which are fair. No regulation; small diversion above station for domestic use.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.10	102	42	36	231	150	8.8	2.0	.28	.08	.10
2	.02	.08	49	34	22	99	147	8.8	2.2	.28	.08	.02
3	.01	.08	38	43	19	60	111	8.1	2.5	.24	.12	.24
4	.01	.08	32	94	16	55	83	7.8	2.3	.24	.08	.04
5	.01	41	28	52	15	47	67	7.5	2.2	.24	.08	.02
6	.01	48	25	51	13	42	59	7.5	1.3	.21	.06	.02
7	.21	46	22	45	13	57	50	6.9	1.0	.21	.04	.04
8	.15	20	20	42	12	44	44	6.6	.84	5.5	.04	.02
9	.15	48	18	38	12	35	42	7.2	.70	3.3	.02	.01
10	.06	115	17	34	11	31	35	6.4	.57	1.0	.02	.01
11	.02	214	36	38	10	42	30	6.4	.52	.46	.02	.01
12	.02	214	22	49	13	59	26	5.1	.52	.36	.02	.01
13	.01	106	36	53	12	43	23	4.8	.52	.32	.02	.01
14	.01	69	25	130	9.4	36	20	4.6	.57	.24	.02	.01
15	.01	42	21	106	9.1	34	19	4.4	.46	.21	.04	.02
16	.01	630	20	257	12	30	18	4.1	.41	.21	.04	.04
17	.01	780	24	199	9.1	28	16	3.9	.46	.18	.02	.04
18	.01	230	20	168	9.4	26	15	3.9	.52	.18	.01	.04
19	.01	74	18	114	96	23	14	4.1	.46	.18	.01	.36
20	.01	58	16	84	26	21	13	3.9	.46	.12	.01	.21
21	.01	40	128	61	21	20	12	3.7	.46	.12	.01	.04
22	4.8	28	75	55	18	19	12	3.5	.41	.12	.01	.02
23	1.1	22	49	46	16	18	13	3.3	.41	.18	.01	.02
24	.28	19	39	41	14	17	20	3.3	.36	.15	.01	.02
25	.15	16	34	37	13	28	13	3.1	.32	.08	.01	.02
26	.15	14	78	32	13	26	12	3.1	.28	.06	.01	.02
27	.12	12	118	28	13	127	11	2.9	.28	.06	.01	.02
28	.12	11	74	25	146	190	9.8	2.3	.28	.06	.01	.02
29	.21	11	87	19	-----	249	9.8	2.2	.24	.06	.01	.02
30	.18	84	54	20	-----	392	9.1	2.0	.24	.08	.01	.04
31	.10	-----	50	27	-----	124	-----	1.8	-----	.15	.06	-----
TOTAL	8.00	2,992.34	1,375	2,064	629.0	2,253	1,103.7	152.0	23.79	15.08	.99	1.51
MEAN	.26	99.7	44.4	66.6	22.5	72.7	36.8	4.90	.79	.49	.032	.050
MAX	4.8	780	128	257	146	392	150	8.8	2.5	5.5	.12	.36
MIN	.01	.08	16	19	9.1	17	9.1	1.8	.24	.06	.01	.01
AC-FT	16	5,940	2,730	4,090	1,250	4,470	2,190	301	47	30	2.0	3.0

CAL YR 1973 TOTAL 12,772.28 MEAN 35.0 MAX 780 MIN 0 AC-FT 25,330
WTR YR 1974 TOTAL 10,618.41 MEAN 29.1 MAX 780 MIN .01 AC-FT 21,060

PEAK DISCHARGE (BASE, 600 FT³/S)
DATE TIME G.H. DISCHARGE DATE TIME G.H. DISCHARGE
11-16 0615 7.15 1,200 3-30 0115 6.61 1,030
3-27 2245 6.68 1,060

NOTE.--No gage-height record Nov. 16-26.

11458350 TULUCAY CREEK AT NAPA, CALIF.

LOCATION.--Lat 38°17'09", long 122°16'29", in Tulucay Grant, Napa County, on left bank 150 ft (46 m) downstream from bridge on State Highways 12 and 29 in Napa.

DRAINAGE AREA.--12.6 mi² (32.6 km²).

PERIOD OF RECORD.--October 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3.65 ft (1.113 m) above mean sea level (levels by county of Napa).

EXTREMES.--Current year: Maximum discharge, 482 ft³/s (13.7 m³/s) Nov. 17 (gage height, 3.67 ft or 1.119 m); minimum daily, 0.18 ft³/s (0.005 m³/s) on several days.

Period of record: Maximum discharge, 1,050 ft³/s (29.7 m³/s) Jan. 16, 1973 (gage height, 5.55 ft or 1.692 m); minimum daily, 0.02 ft³/s (0.001 m³/s) Aug. 22, Sept. 8, 9, 1972.

REMARKS.--Records good except those for period of no gage-height record, which are fair. No regulation; some small diversions above station for irrigation of about 30 acres.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.22	.31	114	24	9.5	108	202	2.5	.70	.27	.31	.22
2	.22	.31	44	19	7.5	50	91	2.4	.68	.27	.31	.22
3	.22	.31	29	95	7.0	32	50	2.2	.65	.26	.29	.22
4	.22	.31	19	203	6.5	25	33	2.1	.62	.25	.29	.22
5	.20	10	15	108	5.6	23	24	2.0	.60	.25	.29	.20
6	.26	12	12	63	5.2	20	19	1.9	.58	.24	.29	.20
7	.40	8.0	11	49	4.9	29	14	1.3	.56	.24	.29	.20
8	.31	4.5	9.5	34	4.5	21	12	1.7	.54	3.5	.26	.20
9	.31	9.6	9.0	25	4.5	16	12	1.7	.52	.42	.26	.22
10	.26	30	8.0	21	4.1	14	10	1.6	.50	.53	.24	.20
11	.28	50	12	25	3.7	20	8.5	1.6	.49	.56	.24	.20
12	.28	92	11	35	4.9	19	7.5	1.5	.48	.53	.24	.20
13	.28	49	17	52	4.9	14	6.5	1.4	.46	.53	.24	.20
14	.26	35	14	102	4.1	13	6.1	1.4	.45	.48	.24	.18
15	.26	21	13	100	3.7	12	5.2	1.3	.43	.48	.24	.18
16	.26	71	11	104	4.9	10	5.2	1.3	.42	.48	.24	.20
17	.24	126	13	98	3.7	9.5	4.9	1.2	.41	.44	.22	.18
18	.24	54	11	79	3.7	8.5	4.5	1.2	.40	.41	.22	.18
19	.24	29	9.5	55	14	7.5	4.5	1.1	.39	.37	.22	.18
20	.24	31	11	41	6.5	6.5	3.7	1.1	.38	.34	.24	.20
21	.32	22	53	30	6.1	6.1	3.7	1.0	.37	.34	.22	.20
22	1.3	19	35	23	5.2	5.6	3.4	.98	.36	.34	.22	.20
23	.37	14	26	19	4.9	5.6	3.7	.96	.35	.31	.22	.18
24	.28	13	21	14	4.5	5.2	7.0	.94	.34	.31	.22	.18
25	.28	11	18	13	4.5	10	4.5	.91	.33	.29	.22	.18
26	.28	8.5	33	12	4.1	8.5	3.7	.87	.32	.29	.24	.18
27	.28	7.0	75	10	4.1	20	3.4	.84	.31	.31	.22	.18
28	.28	6.5	57	9.0	137	38	3.1	.81	.30	.29	.24	.18
29	.28	6.1	71	8.5	-----	108	2.5	.78	.29	.31	.22	.18
30	.31	61	49	8.0	-----	156	2.6	.75	.28	.29	.24	.18
31	.31	-----	34	9.0	-----	63	-----	.72	-----	.31	.22	-----
TOTAL	9.49	806.44	865.0	1,487.5	283.8	884.0	561.2	42.56	13.51	14.66	7.65	5.84
MEAN	.31	26.9	27.9	48.0	10.1	28.5	18.7	1.37	.45	.47	.25	.19
MAX	1.3	126	114	203	137	156	202	2.5	.70	3.5	.31	.22
MIN	.20	.31	8.0	8.0	3.7	5.2	2.5	.72	.28	.24	.22	.18
AC-FT	19	1,600	1,720	2,950	563	1,750	1,110	84	27	29	15	12

CAL YR 1973 TOTAL 7,035.41 MEAN 19.3 MAX 541 MIN .16 AC-FT 13,950
WTR YR 1974 TOTAL 4,981.65 MEAN 13.6 MAX 203 MIN .18 AC-FT 9,880

PEAK DISCHARGE (BASE, 400 FT³/S).--Nov. 17 (1300) 482 ft³/s (3.67 ft); Apr. 1 (1115) 416 ft³/s (3.56 ft).

NOTE.--No gage-height record Apr. 29 to July 8.

11458500 SONOMA CREEK AT AGUA CALIENTE, CALIF.

LOCATION.--Lat 38°19'24", long 122°29'36", in Agua Caliente Grant, Sonoma County, on left bank 20 ft (6 m) upstream from bridge, and 0.4 mi (0.6 km) west of Agua Caliente.

DRAINAGE AREA.--58.4 mi² (151.3 km²).

PERIOD OF RECORD.--February 1955 to current year. Prior to October 1966, published as "at Boyes Hot Springs."

GAGE.--Water-stage recorder. Altitude of gage is 120 ft (37 m), from topographic map. Prior to July 24, 1967, at site 0.8 mi (1.3 km) downstream at different datum. July 24, 1967, to Oct. 9, 1968, at site 130 ft (40 m) upstream at different datum.

AVERAGE DISCHARGE.--19 years, 75.9 ft³/s (2.149 m³/s), 55,000 acre-ft/yr (67.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 4,290 ft³/s (121 m³/s) Mar. 30 (gage height, 10.49 ft or 3.197 m); minimum daily, 0.20 ft³/s (0.006 m³/s) Oct. 20, 21.

Period of record: Maximum discharge, 8,880 ft³/s (251 m³/s) Dec. 22, 1955 (gage height, 17.10 ft or 5.212 m, site and datum then in use), from rating curve extended above 4,100 ft³/s (116 m³/s) on basis of slope-area measurement of maximum flow; no flow at times.

REMARKS.--Records fair. No regulation; some diversion above station for irrigation of about 2,000 acres (8.09 km²).

DISCHARGE, IN CURIC FEET PFR SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FER	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	1.8	700	163	76	940	2,030	24	8.5	9.6	3.2	2.2
2	.90	1.8	260	137	51	790	835	23	8.5	7.9	3.0	2.2
3	.90	1.8	170	458	45	381	443	23	7.9	7.6	2.3	1.9
4	.90	1.8	112	690	41	260	286	21	6.7	7.2	2.2	1.7
5	.80	21	92	306	36	201	235	21	6.7	7.2	2.3	1.4
6	.70	94	81	250	32	167	188	20	5.8	7.6	2.3	1.5
7	1.2	59	73	217	30	241	155	18	5.4	7.2	2.0	1.4
8	1.5	41	64	196	28	183	139	18	5.4	11	1.8	1.3
9	1.6	91	57	168	26	145	147	17	5.4	15	2.3	1.3
10	1.5	190	51	151	25	129	113	16	5.4	9.2	2.3	1.1
11	1.3	340	113	149	23	220	95	16	4.8	7.6	2.6	1.3
12	1.3	650	78	208	32	270	82	16	5.2	6.8	3.0	1.3
13	1.3	315	204	226	29	196	69	15	5.8	5.5	3.2	1.1
14	1.3	188	121	659	23	163	61	14	5.5	5.5	2.9	1.1
15	1.3	130	95	646	21	145	56	14	6.1	6.1	2.7	1.1
16	1.3	570	79	1,540	29	129	52	13	5.8	5.2	2.2	1.0
17	1.3	1,600	109	1,000	23	113	49	13	6.1	4.7	1.8	1.3
18	.70	860	81	824	28	99	47	14	6.4	4.2	1.7	1.3
19	.30	380	67	497	409	85	44	14	6.4	4.0	1.4	1.3
20	.20	250	60	314	112	75	41	12	7.0	3.8	1.5	1.3
21	.20	180	457	223	86	68	39	12	8.5	4.0	1.4	1.3
22	4.4	120	334	174	69	65	36	10	8.2	4.2	1.8	1.4
23	4.8	98	193	147	58	60	37	9.6	7.6	4.0	1.8	1.6
24	1.2	81	155	125	51	57	42	9.2	7.3	3.8	1.7	1.6
25	.70	66	133	107	45	91	38	8.8	7.6	3.4	1.7	1.6
26	.60	53	296	87	44	81	37	8.5	6.8	3.4	1.9	1.7
27	1.5	47	446	72	40	481	34	8.2	5.8	3.0	1.5	1.8
28	1.8	44	318	64	326	785	30	7.9	5.2	2.9	1.5	1.8
29	1.8	42	358	57	-----	1,210	26	7.9	5.0	2.9	1.5	1.7
30	1.6	460	241	52	-----	1,830	25	7.6	7.2	2.7	1.5	1.5
31	1.6	-----	193	67	-----	634	-----	7.6	-----	2.9	2.2	-----
TOTAL	41.00	6,977.2	5,791	9,974	1,838	10,294	5,511	439.3	194.0	180.1	65.2	44.1
MEAN	1.32	233	187	322	65.6	332	184	14.2	6.47	5.81	2.10	1.47
MAX	4.8	1,600	700	1,540	409	1,830	2,030	24	8.5	15	3.2	2.2
MIN	.20	1.8	51	52	21	57	25	7.6	4.8	2.7	1.4	1.0
AC-FT	81	13,840	11,490	19,780	3,650	20,420	10,930	871	385	357	129	87

CAL YR 1973 TOTAL 50,911.01 MEAN 139 MAX 3,770 MIN .20 AC-FT 101,000
WTR YR 1974 TOTAL 41,348.90 MEAN 113 MAX 2,030 MIN .20 AC-FT 82,020

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-17	1700	9.00	3,200	3-30	0030	10.49	4,290
1-16	1315	8.98	3,190	4-1	1130	9.28	3,400

NOTE.--No gage-height record Nov. 6 to Dec. 6.

NOVATO CREEK BASIN

11459500 NOVATO CREEK AT NOVATO, CALIF.

LOCATION.--Lat 38°06'28", long 122°34'44", in Novato Grant, Marin County, on left bank in Novato, 100 ft (30 m) upstream from 7th Street Bridge.

DRAINAGE AREA.--17.6 mi² (45.6 km²).

PERIOD OF RECORD.--October 1946 to current year. Records of diversions for water years 1952-53, estimated. Prior to October 1966 published as "near Novato."

GAGE.--Water-stage recorder. Altitude of gage is 30 ft (9 m), from topographic map. Prior to Aug. 23, 1967, at site 0.6 mi (1.0 km) upstream at different datum.

AVERAGE DISCHARGE (adjusted for diversion).--28 years, 13.3 ft³/s (0.377 m³/s), 9,640 acre-ft/yr (11.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 753 ft³/s (21.3 m³/s) Apr. 1 (gage height, 7.08 ft or 2.158 m); minimum daily, 0.08 ft³/s (0.002 m³/s) Oct. 6.

Period of record: Maximum discharge, 2,000 ft³/s (56.6 m³/s) Jan. 14, 1970 (gage height, 11.01 ft or 3.356 m); no flow many days in most years.

REMARKS.--Records fair. Flow regulated by Stafford Lake beginning Dec. 1, 1951, capacity, 4,500 acre-ft (5.55 hm³) since Oct. 18, 1954; contents, 2,490 acre-ft (3.07 hm³) Sept. 30, 1973, and 2,500 acre-ft (3.08 hm³) Sept. 30, 1974. Diversion from Stafford Lake for municipal water supply began Apr. 25, 1952, and amounted to 1,700 acre-ft (2.10 hm³) for the current year.

COOPERATION.--Record of diversions furnished by North Marin County Water District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.20	70	44	8.3	207	445	4.4	.69	.39	.37	.33
2	.10	.22	29	32	6.8	221	232	4.0	.70	.38	.40	.32
3	.10	.20	20	345	7.7	112	110	3.3	.82	.36	.32	.39
4	.10	.10	14	450	8.6	73	77	2.7	.80	.35	.29	.34
5	.10	.20	11	196	8.1	50	61	2.9	.72	.47	.33	.27
6	.08	7.5	8.2	120	7.3	40	46	2.6	.50	.36	.35	.37
7	.17	1.7	7.0	82	6.9	49	37	2.6	.54	.37	.33	.34
8	.19	.55	6.2	57	6.8	35	33	2.5	.46	.31	.29	.32
9	.14	6.8	5.3	43	6.7	26	31	2.5	.48	1.3	.38	.27
10	.14	11	4.5	39	6.5	22	24	2.9	.46	.85	.28	.31
11	.11	32	15	36	6.5	32	21	1.9	.49	.66	.31	.28
12	.12	17	4.8	39	8.2	34	18	2.3	.52	1.1	.31	.28
13	.10	6.7	17	31	6.7	26	16	2.1	.53	.70	.35	.45
14	.12	5.0	5.7	62	5.9	21	14	1.8	.58	.67	.34	.35
15	.14	3.2	4.7	75	5.5	18	13	2.6	.58	.66	.32	.35
16	.13	40	4.3	177	8.5	18	12	1.8	.59	.75	.42	.34
17	.14	94	6.0	155	5.0	16	11	2.1	.58	.63	.32	.46
18	.12	34	4.2	115	5.4	15	11	1.7	.55	.62	.34	.40
19	.13	17	3.6	87	2.8	13	8.4	1.6	.52	.80	.31	.39
20	.17	19	3.2	61	11	12	7.9	1.8	.51	.61	.30	.59
21	.20	12	47	46	10	11	7.5	1.6	.56	.63	.26	.36
22	7.1	30	23	37	9.3	11	7.2	1.4	.93	.61	.25	.43
23	1.1	15	15	30	7.4	11	8.1	2.0	.53	.62	.32	.51
24	.25	12	23	50	6.7	10	14	2.8	.44	.56	.24	.61
25	.17	11	25	78	6.3	22	7.9	1.8	.44	.51	.25	.55
26	.17	8.9	90	10	5.8	22	7.7	1.1	.45	.66	.27	.35
27	.17	7.3	160	8.9	5.3	58	6.9	.85	.40	.47	.34	.30
28	.16	6.4	96	8.2	7.8	69	6.4	.92	.45	.49	.35	.25
29	.16	5.8	106	7.5	-----	111	4.9	.83	.40	.53	.40	.27
30	.16	87	75	7.1	-----	240	4.5	.88	.38	.44	.63	.28
31	.19	-----	56	8.1	-----	102	-----	.63	-----	.34	.38	-----
TOTAL	12.34	516.56	950.7	2,536.8	294.1	1,707	1,303.4	64.91	16.60	20.99	10.35	11.06
MEAN	.43	17.2	31.0	81.8	10.5	55.1	43.4	2.09	.55	.68	.33	.37
MAX	7.1	94	160	450	7.8	240	445	4.4	.93	3.1	.63	.61
MIN	.08	.19	3.2	7.1	5.3	10	4.5	.63	.38	.34	.24	.25
AC-FT	24	1,020	1,400	5,030	583	3,390	2,590	129	33	42	21	22

CAL YR 1973 TOTAL 12,891.59 MEAN 35.3 MAX 946 MIN .06 AC-FT 25,570
 YR 1974 TOTAL 7,453.81 MEAN 20.4 MAX 450 MIN .08 AC-FT 14,780

11459800 SAN RAFAEL CREEK AT SAN RAFAEL, CALIF.

LOCATION.--Lat 37°58'22", long 122°32'07", in San Pedro Santa Margarita Las Gallinas Grant, Marin County, on left bank 22 ft (6.7 m) upstream from culvert at intersection of Second and Third Streets in town of San Rafael.

DRAINAGE AREA.--1.24 mi² (3.21 km²).

PERIOD OF RECORD.--November 1971 to current year (seasonal records only).

GAGE.--Water-stage recorder. Datum of gage is 15.56 ft (4.743 m) above mean sea level. Recording rain gage at City Hall 0.3 mi (0.5 km) northeast of gage.

EXTREMES.--Current year: Maximum discharge, 781 ft³/s (22.1 m³/s) Dec. 21 (gage height, 7.87 ft or 2.399 m), from rating curve extended as explained below.

Period of record: Maximum discharge, 781 ft³/s (22.1 m³/s) Dec. 21, 1973 (gage height, 7.87 ft or 2.399 m), from rating curve extended above 240 ft³/s (6.80 m³/s) on basis of computation of flow through culvert.

REMARKS.--Records good. Low flow affected by return flow from urban irrigation. Records of sediment discharge for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		--	7.4	1.2		16	22					
2		--	2.6	4.2		7.4	4.2					
3		--	1.7	2.1		3.9	2.6					
4		--	1.3	1.3		1.4	1.7					
5		--	1.0	5.6		1.3	1.5					
6		--	--	4.2		1.2	1.2					
7		--	--	3.2		4.2	1.9					
8		9.2	--	2.1		1.5	--					
9		9.2	--	1.5		1.2	--					
10		14	4.3	1.3		1.2	--					
11		42	3.9	2.6		9.2	--					
12		13	1.3	6.4		4.7	--					
13		11	12	2.6		2.1	--					
14		3.9	2.1	8.1		1.5	--					
15		3.4	1.5	4.4		1.2	--					
16		42	1.2	33		1.0	--					
17		38	2.3	7.1		--	--					
18		5.6	1.2	14		--	--					
19		2.6	4.2	4.7		--	--					
20		2.3	4.80	3.0		--	--					
21		1.3	18	1.9		--	--					
22		6.3	3.9	1.5		--	--					
23		2.6	2.3	1.2		--	--					
24		1.5	1.7	1.0		--	--					
25		1.2	1.3	4.2		3.2	--					
26		1.0	6.4	--		2.3	--					
27		--	5.0	--		23	--					
28		--	2.6	--		16	--					
29		--	2.1	--	-----	29	--					
30		22	1.5	--	-----	32	--					
31		-----	1.5	--	-----	4.7	-----		-----			-----
TOTAL	--	--	--	--	--	--	--	--	--	--	--	--
MEAN	--	--	--	--	--	--	--	--	--	--	--	--
MAX	--	--	--	--	--	--	--	--	--	--	--	--
MIN	--	--	--	--	--	--	--	--	--	--	--	--
ACFT	--	--	--	--	--	--	--	--	--	--	--	--
(a)	3.96	31.60	4.54	7.59	3.64	8.89	1.88	0	0	0	0	0

a Precipitation, in inches.

LOCATION.--Lat 37°58'56", long 122°30'50", in San Pedro Santa Margarita Las Gallinas Grant, Marin County, on right bank at end of Linden Lane in San Rafael.

PERIOD OF RECORD.--November 1971 to current year (seasonal records only).

GAGE.--Water-stage recorder. Altitude of gage is 75 ft (23 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 75 ft³/s (2.12 m³/s) Nov. 17 (gage height, 3.93 ft or 1.198 m), from rating curve extended as explained below.
Period of record: Maximum discharge, 96 ft³/s (2.72 m³/s) Jan. 18, 1973 (gage height, 4.46 ft or 1.359 m), from rating curve extended above 37 ft³/s (1.05 m³/s) on basis of computation of flow through culvert.

REMARKS.--Records good. Low flow affected by return flow from urban irrigation. Records of sediment discharge for the current year are published in Part 2 of this report.

[illegible]

11460000 CORTE MADERA CREEK AT ROSS, CALIF.

LOCATION.--Lat 37°57'45", long 122°33'20", in Punta de Quentin Grant, Marin County, on left bank behind fire station at Ross, 1.7 mi (2.7 km) southwest of San Rafael, and 4 mi (6 km) upstream from mouth.

DRAINAGE AREA.--18.1 mi² (46.9 km²).

PERIOD OF RECORD.--February 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 7.97 ft (2.429 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--23 years, 29.0 ft³/s (0.821 m³/s), 21,010 acre-ft/yr (25.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,950 ft³/s (55.2 m³/s) Nov. 16 (gage height, 13.49 ft or 4.112 m); minimum daily, 0.20 ft³/s (0.006 m³/s) Oct. 1.

Period of record: Maximum discharge, 3,620 ft³/s (103 m³/s) Dec. 22, 1955 (gage height, 17.45 ft or 5.319 m); no flow at times.

REMARKS.--Records fair. Flow regulated by Phoenix Lake 1.7 mi (2.7 km) upstream, capacity, 612 acre-ft (755,000 m³). Diversion on tributary above station by Marin Municipal Water District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.20	3.7	169	27	18	335	748	8.2	3.6	4.1	.80	.85
2	.29	4.1	59	22	16	285	231	7.5	4.1	5.1	.71	.88
3	.29	4.1	38	422	15	154	112	7.0	2.5	5.1	.71	.86
4	.29	4.1	30	420	15	85	74	7.0	2.5	5.1	.64	.84
5	.24	246	24	176	14	64	60	7.0	2.9	5.1	.71	.84
6	.34	196	20	105	12	54	47	6.4	3.2	5.7	.71	.84
7	8.0	57	17	73	11	96	39	5.7	2.9	7.0	.71	.84
8	1.1	29	15	51	11	63	34	5.7	2.2	14	.89	.82
9	.33	145	13	38	11	51	38	4.1	2.5	1.7	.80	.82
10	.28	307	12	30	10	45	28	4.1	2.9	.64	.82	.80
11	.24	586	32	32	9.7	106	26	4.1	2.2	.44	.85	.80
12	.28	403	18	62	13	113	23	3.6	1.7	.44	.90	.78
13	.39	116	119	42	10	79	20	3.6	1.7	.39	.93	.78
14	.56	74	44	132	9.5	63	18	3.2	1.7	.39	.89	.76
15	.78	53	31	124	9.7	52	17	3.2	1.7	.39	.84	.74
16	1.1	557	25	389	10	45	17	3.2	2.0	.44	.80	.74
17	.78	465	32	268	8.9	38	16	3.2	2.2	.44	.78	.74
18	.78	176	23	337	8.9	35	15	3.2	3.2	.44	.76	.74
19	.78	68	20	222	60	32	14	3.2	2.2	.44	.76	.74
20	2.1	55	18	124	20	29	13	3.2	2.0	.50	.76	.74
21	4.5	37	156	110	21	27	12	3.2	2.2	.39	.78	.74
22	97	100	104	33	18	26	12	3.2	2.0	.44	.80	.74
23	25	63	56	11	15	24	15	3.2	2.0	.50	.80	.76
24	5.9	47	38	27	13	23	22	2.9	2.0	.50	.80	.80
25	3.7	32	28	24	10	40	13	2.9	1.7	.50	.82	.82
26	3.7	24	62	21	12	36	14	3.6	1.7	.57	.82	.84
27	3.7	18	106	18	11	215	12	2.9	1.7	.50	.82	.86
28	3.7	15	60	16	81	268	10	2.5	2.2	.57	.82	.86
29	4.1	14	54	15	-----	321	8.8	2.5	2.9	.64	.80	.88
30	4.1	167	40	16	-----	685	8.8	3.6	3.2	.71	.80	.90
31	3.3	-----	34	17	-----	167	-----	3.2	-----	.71	.82	-----
TOTAL	177.85	4,061.0	1,497	3,404	473.2	3,656	1,717.6	130.1	71.5	63.88	24.65	24.15
MEAN	5.74	135	48.3	110	16.9	118	57.3	4.20	2.38	2.06	.80	.81
MAX	97	586	169	422	81	685	748	8.2	4.1	14	.93	.90
MIN	.20	3.7	12	11	8.9	23	8.8	2.5	1.7	.39	.64	.74
AC-FT	353	8,050	2,970	6,750	939	7,250	3,410	258	142	127	49	48
CAL YR 1973	TOTAL 19,817.31	MEAN 54.3	MAX 1,210	MIN .08	AC-FT 39,310							
WTR YR 1974	TOTAL 15,300.93	MEAN 41.9	MAX 748	MIN .20	AC-FT 30,350							

PEAK DISCHARGE (BASE, 1,000 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-12	0045	11.77	1,370	3-27	2230	11.15	1,160
11-16	0530	13.49	1,950	3-30	0045	13.09	1,840
1-3	1415	10.77	1,040	4-1	1045	10.98	1,110
1-16	1045	10.87	1,070				

NOTE.--No gage-height record Aug. 9 to Sept. 30.

WALKER CREEK BASIN

11460800 WALKER CREEK NEAR TOMALES, CALIF.

LOCATION.--Lat 38°12'35", long 122°51'35", in Nicasio Grant, Marin County, on left bank 1,300 ft (396 m) upstream from Chileno Creek, and 3.5 mi (5.6 km) southeast of Tomales.

DRAINAGE AREA.--37.1 mi² (96.1 km²).

PERIOD OF RECORD.--June 1959 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 56.74 ft (17.294 m) above mean sea level.

AVERAGE DISCHARGE.--15 years, 48.5 ft³/s (1.374 m³/s), 35,140 acre-ft/yr (43.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,120 ft³/s (88.4 m³/s) Apr. 1 (gage height, 18.21 ft or 5.550 m), from rating curve extended above 1,400 ft³/s (39.6 m³/s); no flow Oct. 1.
Period of record: Maximum discharge, 5,420 ft³/s (153 m³/s) Jan. 5, 1966 (gage height, 22.23 ft or 6.776 m); maximum gage height, 22.91 ft (6.983 m) Jan. 16, 1973; no flow many days in each year.

REMARKS.--Records good. No regulation; small diversions above station for irrigation of about 50 acres (202,000 m²) and stock watering.

REVISIONS (WATER YEARS).--WRD Calif. 1969: 1967-68.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.02	555	127	53	913	2,120	8.2	.90	.14	.04	.01
2	.01	.02	203	84	33	801	709	7.8	.98	.14	.04	.02
3	.03	.03	129	773	25	439	294	7.4	.90	.14	.03	.02
4	.03	.04	92	937	22	220	184	7.2	.83	.14	.03	.02
5	.03	22	68	397	21	149	147	7.0	.77	.12	.03	.01
6	.03	80	52	264	18	110	109	6.6	.65	.12	.02	.01
7	.05	205	38	181	25	269	77	6.2	.70	.12	.02	.01
8	.05	67	32	129	17	83	58	5.7	.54	1.6	.02	.02
9	.05	275	26	99	22	53	68	5.0	.45	1.6	.02	.01
10	.03	420	23	75	19	41	45	3.9	.45	.65	.02	.01
11	.05	640	87	63	18	149	36	3.5	.41	.36	.03	.01
12	.05	350	50	76	44	180	31	3.2	.41	.25	.03	.01
13	.03	181	159	66	25	132	27	2.9	.41	.19	.03	.02
14	.03	174	96	285	20	101	23	2.6	.41	.17	.02	.01
15	.03	122	77	372	18	82	20	2.3	.36	.14	.02	.01
16	.03	737	64	1,020	35	63	18	2.1	.41	.12	.02	.02
17	.03	705	83	747	21	44	16	2.0	.41	.12	.02	.02
18	.03	398	62	510	277	33	15	2.0	.50	.12	.02	.02
19	.03	178	44	363	93	26	14	2.0	.50	.10	.01	.02
20	.02	150	32	245	110	22	13	1.8	.45	.08	.01	.02
21	.02	104	333	173	95	20	12	1.6	.36	.08	.01	.02
22	.05	141	300	130	80	18	11	1.8	.32	.08	.01	.02
23	.01	123	167	102	68	17	10	1.6	.32	.06	.01	.02
24	.01	92	127	83	56	17	15	1.5	.29	.06	.01	.02
25	.01	79	98	66	50	31	12	1.3	.29	.04	.01	.02
26	.01	68	257	52	45	34	18	1.3	.25	.04	.01	.02
27	.01	47	570	41	39	166	15	1.1	.22	.04	.01	.02
28	.01	36	344	33	465	387	12	1.2	.19	.04	.02	.02
29	.01	32	393	29	-----	628	10	1.1	.17	.04	.02	.02
30	.01	357	243	25	-----	1,220	9.0	.98	.17	.04	.02	.02
31	.01	-----	170	32	-----	373	-----	.90	-----	.04	.02	-----
TOTAL	.80	5,783.11	4,974	7,579	1,814	6,821	4,148.0	103.78	14.02	6.98	.63	.50
MEAN	.026	193	160	244	64.8	220	138	3.35	.47	.23	.020	.017
MAX	.05	737	570	1,020	465	1,220	2,120	8.2	.98	1.6	.04	.02
MIN	0	.02	23	25	17	17	9.0	.90	.17	.04	.01	.01
AC-FT	1.6	11,470	9,870	15,030	3,600	13,530	8,230	206	28	14	1.2	1.0

CAL YR 1973 TOTAL 37,359.14 MEAN 102 MAX 3,110 MIN 0 AC-FT 74,100
WTR YR 1974 TOTAL 31,245.82 MEAN 85.6 MAX 2,120 MIN 0 AC-FT 61,980

PEAK DISCHARGE (BASE, 2,000 FT³/S).--Apr. 1 (1200) 3,120 ft³/s (18.21 ft).

11460920 SALMON CREEK AT BODEGA, CALIF.

LOCATION.--Lat 38°20'54", long 122°58'45", in Estero Americano Grant, Sonoma County, on left bank 100 ft (30 m) upstream from private road bridge, 0.3 mi (0.5 km) upstream from small left-bank tributary, and 0.4 mi (0.6 km) northwest of Bodega.

DRAINAGE AREA.--15.7 mi² (40.7 km²).

PERIOD OF RECORD.--July 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 81.03 ft (24.698 m) above mean sea level.

AVERAGE DISCHARGE.--12 years, 24.5 ft³/s (0.694 m³/s), 17,750 acre-ft/yr (21.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,760 ft³/s (49.8 m³/s) Jan. 14 (gage height, 16.48 ft or 5.023 m); no flow Oct. 15.

Period of record: Maximum discharge, 2,260 ft³/s (64.0 m³/s) Jan. 11, 1973 (gage height, 19.61 ft or 5.977 m, from inside high-water mark); no flow at times in each year.

REMARKS.--Records good. No regulation or diversion above station. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.28	.07	267	47	86	275	1,110	5.4	1.6	.51	.41	.40
2	.28	.08	78	35	35	187	151	5.1	1.6	.42	.40	.50
3	.23	.08	44	259	26	86	68	4.9	1.5	.31	.44	.42
4	.14	.08	31	273	21	49	45	4.9	1.5	.37	.42	.36
5	.10	12	23	104	18	37	54	4.9	1.5	.39	.34	.21
6	.14	39	18	88	15	31	40	4.8	1.1	.38	.24	.19
7	.80	114	17	66	14	51	29	4.5	1.0	.37	.19	.13
8	.94	23	15	48	12	32	26	4.3	.90	.11	.17	.10
9	1.0	132	13	42	10	23	39	4.1	.93	.85	.16	.24
10	.54	193	12	38	9.5	21	24	3.8	.80	.24	.23	.13
11	.23	380	60	36	9.1	98	19	3.5	.83	1.3	.42	.13
12	.19	245	27	102	21	82	16	3.3	1.0	.98	.52	.14
13	.12	112	139	143	14	49	13	3.0	1.1	.83	.51	.14
14	.05	65	47	680	10	34	12	3.0	1.1	.69	.31	.25
15	0	49	32	407	8.6	27	11	3.0	.92	.58	.31	.32
16	.01	392	26	540	18	23	9.7	2.8	.92	.63	.23	.46
17	.01	334	99	210	11	20	9.2	2.5	.94	.63	.26	.60
18	.01	126	43	272	75	18	9.0	2.7	1.2	.45	.22	.69
19	.01	48	31	150	426	16	8.4	2.9	1.3	.50	.19	.54
20	.05	73	24	76	61	14	7.5	2.7	.96	.43	.17	.55
21	.16	42	225	51	68	12	7.2	2.6	.81	.37	.14	.47
22	3.6	57	103	38	46	11	6.9	2.3	.67	.33	.11	.42
23	6.1	38	53	31	32	10	6.7	2.3	.67	.25	.06	.39
24	1.1	31	42	26	25	10	9.4	2.1	.59	.30	.05	.30
25	.49	27	33	21	21	36	7.6	1.9	.64	.21	.07	.24
26	.28	21	196	18	21	40	12	1.9	.58	.23	.08	.31
27	.23	17	262	15	18	180	8.3	1.9	.44	.33	.04	.39
28	.14	14	146	14	315	184	6.9	1.6	.38	.45	.22	.36
29	.12	13	213	13	-----	444	6.0	1.7	.40	.41	.21	.28
30	.08	273	82	12	-----	479	5.4	1.8	.43	.41	.28	.27
31	.07	-----	57	96	-----	130	-----	1.7	-----	.41	.49	-----
TOTAL	17.50	2,870.31	2,458	3,951	1,446.2	2,709	1,777.2	97.9	28.55	36.97	7.94	9.92
MFAN	.56	95.7	79.3	127	51.7	87.4	59.2	3.16	.95	1.13	.28	.33
MAX	6.1	392	267	680	426	479	1,110	5.4	1.6	1.1	.52	.69
MIN	0	.07	12	12	8.6	10	5.4	1.6	.38	.21	.05	.10
AC-FT	35	5,690	4,880	7,840	2,870	5,370	3,530	194	57	69	16	20
CAL YR 1973	TOTAL	15,769.36	MEAN	43.2	MAX	1,260	MIN	0	AC-FT	31,220		
WTR YR 1974	TOTAL	15,408.49	MEAN	42.2	MAX	1,110	MIN	0	AC-FT	30,560		

PEAK DISCHARGE (BASE, 1,000 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-16	0545	12.09	1,050	3-30	0115	13.51	1,280
1-14	1830	16.48	1,760	4-1	0615	15.85	1,660
2-19	0400	13.37	1,260				

RUSSIAN RIVER BASIN

11461000 RUSSIAN RIVER NEAR UKIAH, CALIF.

LOCATION.--Lat 39°11'44", long 123°11'38", in Yokayo Rancho Grant, Mendocino County, on right bank 20 ft (6.1 m) downstream from bridge on Lake Mendocino Drive, 0.4 mi (0.6 km) upstream from East Fork, 0.6 mi (1.0 km) downstream from York Creek, and 3.2 mi (5.1 km) north of Ukiah.

DRAINAGE AREA.--100 mi² (259 km²).

PERIOD OF RECORD.--August 1911 to September 1913, October 1952 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Altitude of gage is 600 ft (183 m), from topographic map. Prior to October 1952, nonrecording gage at bridge 20 ft (6.1 m) upstream at different datum. Oct. 1, 1952, to Nov. 8, 1971, water-stage recorder at site 0.6 mi (1.0 km) upstream at different datums.

AVERAGE DISCHARGE.--24 years, 184 ft³/s (5.211 m³/s), 133,500 acre-ft/yr (165 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 15,600 ft³/s (442 m³/s) Jan. 16 (gage height, 22.78 ft or 6.943 m), from rating curve extended above 2,800 ft³/s (79.3 m³/s); minimum daily, 0.05 ft³/s (0.001 m³/s) Aug. 8, Sept. 21, 25-28.

Period of record: Maximum discharge, 18,900 ft³/s (535 m³/s) Dec. 21, 1955 (gage height, 19.0 ft or 5.79 m, site and datum then in use); no flow at times in 1911, 1952-53, 1960-61, 1964-65, 1970-73.

REMARKS.--Records good. No regulation. Diversions above station for irrigation of about 1,000 acres (4.05 km²).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.22	1.2	2,430	430	419	2,360	4,930	71	15	4.2	.50	.85
2	.20	1.2	935	338	269	1,710	1,610	68	15	4.9	.40	.85
3	.18	1.2	522	380	223	1,070	846	62	15	4.9	.40	.85
4	.18	1.0	395	338	198	681	616	57	12	3.9	.35	.70
5	.18	1.81	317	311	181	528	499	53	12	3.3	.70	.60
6	.75	1.32	248	287	167	403	405	53	12	3.9	1.0	.30
7	6.3	514	230	263	155	500	339	49	10	3.9	1.0	.35
8	4.9	380	210	245	143	388	311	47	12	15	.05	.40
9	2.3	905	173	224	133	314	460	43	12	14	.40	.30
10	1.6	1,030	149	208	125	290	326	41	10	8.4	.25	.20
11	1.2	2,170	402	210	119	730	287	39	9.9	6.3	.30	.25
12	.95	1,650	329	335	169	865	251	37	11	4.9	.30	.20
13	.95	1,320	855	416	153	614	225	35	8.0	4.6	.60	.11
14	.75	780	660	2,130	127	468	203	34	8.9	3.9	.60	.14
15	.75	462	438	4,720	113	384	183	32	8.9	4.2	.35	.11
16	.95	2,400	338	9,800	181	326	171	33	8.9	3.3	.35	.11
17	.75	1,160	332	2,200	151	281	157	30	9.9	3.3	.35	.11
18	.55	1,040	263	1,490	860	245	149	33	9.4	3.1	.40	.11
19	.95	458	227	1,060	3,000	213	141	35	9.9	2.6	.40	.09
20	1.4	506	269	780	677	189	127	32	11	2.6	.40	.07
21	2.3	399	2,030	618	609	173	119	31	8.0	2.2	.60	.05
22	23	317	956	500	476	161	111	29	7.0	1.3	.40	.07
23	93	254	538	409	356	151	107	28	6.7	.70	.35	.07
24	45	299	416	329	290	141	107	25	5.6	.30	.35	.07
25	14	233	338	284	243	195	117	22	6.0	.40	.35	.05
26	7.7	200	680	240	257	167	131	24	6.0	.70	.30	.05
27	4.6	203	1,290	210	230	600	99	22	6.0	.70	.30	.05
28	2.8	210	1,200	185	2,450	672	88	20	5.3	.70	.40	.05
29	2.0	365	1,750	169	-----	6,300	80	17	3.5	.70	.85	.07
30	1.6	2,900	905	157	-----	4,030	75	16	3.5	.70	.70	.07
31	1.2	-----	585	391	-----	1,910	-----	16	-----	.35	.70	-----
TOTAL	223.21	20,472.6	20,410	29,657	12,474	27,059	13,270	1,134	278.4	113.95	14.40	7.30
MEAN	7.20	682	658	957	446	873	442	36.6	9.28	3.68	.46	.24
MAX	93	2,900	2,430	9,800	3,000	6,300	4,930	71	15	15	1.0	.85
MIN	.18	1.0	149	157	113	141	75	16	3.5	.30	.05	.05
AC-FT	443	40,610	40,480	58,820	24,740	53,670	26,320	2,250	552	226	29	14

CAL YR 1973 TOTAL 103,063.43 MEAN 242 MAX 4,710 MIN 0 AC-FT 204,400
 WTR YR 1974 TOTAL 125,113.86 MEAN 343 MAX 9,800 MIN .05 AC-FT 248,200

PEAK DISCHARGE (BASE, 4,000 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-16	0400	15.83	5,770	2-28	1415	15.70	6,550
11-30	1615	14.61	4,510	3-29	2115	18.76	10,200
1-16	0700	22.78	15,600	4-1	1100	15.78	6,640
2-19	0145	16.44	7,440				

11461500 EAST FORK RUSSIAN RIVER NEAR CALPELLA, CALIF.

LOCATION.--Lat 39°14'48", long 123°07'45", in NW¼NW¼ sec.18, T.16 N., R.11 W., Mendocino County, on left bank 0.1 mi (0.2 km) downstream from Cold Creek, and 3.9 mi (6.3 km) east of Calpella.

DRAINAGE AREA.--92.2 mi² (238.8 km²).

PERIOD OF RECORD.--October 1941 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 787.87 ft (240.143 m) above mean sea level. Prior to May 28, 1957, at site 1.3 mi (2.1 km) downstream at different datum. May 28, 1957, to Apr. 5, 1966, at site 0.4 mi (0.6 km) downstream at same datum.

AVERAGE DISCHARGE.--33 years, 343 ft³/s (9.714 m³/s), 248,500 acre-ft/yr (306 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 12,200 ft³/s (346 m³/s) Jan. 16 (gage height, 21.04 ft or 6.413 m); minimum daily, 5.2 ft³/s (0.15 m³/s) Nov. 3.

Period of record: Maximum discharge, 18,700 ft³/s (530 m³/s) Dec. 22, 1964 (gage height, 20.21 ft or 6.160 m, site then in use); minimum daily, 3.8 ft³/s (0.11 m³/s) Oct. 30, 31, 1959.

REMARKS.--Records good. Flow greatly affected by diversion from Eel River through Potter Valley powerhouse (see sta 11471000). Diversion for irrigation of about 8,000 acres (32.4 km²) above station. Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	333	5.5	1,490	601	614	1,650	3,660	375	313	237	59	68
2	328	5.4	813	550	546	1,200	1,300	370	319	215	70	80
3	328	5.2	614	585	512	760	910	360	335	150	68	68
4	320	10	588	541	500	650	730	355	323	98	68	65
5	325	72	562	511	484	630	655	350	314	104	63	71
6	333	26	514	500	472	610	610	340	298	105	71	169
7	328	168	488	484	465	769	580	335	290	105	63	278
8	253	80	470	469	453	618	570	330	290	125	66	292
9	182	345	458	456	450	558	717	325	278	170	75	316
10	174	520	454	443	450	537	576	316	281	138	78	313
11	174	1,130	610	448	416	910	550	313	275	131	70	304
12	176	1,020	540	513	492	1,030	525	313	278	125	70	307
13	174	782	838	547	409	796	508	323	278	121	57	301
14	174	391	651	1,780	99	730	492	316	284	105	56	304
15	140	220	540	2,610	76	650	480	310	278	45	57	298
16	14	1,510	502	7,460	207	610	465	319	275	43	56	307
17	9.8	657	539	1,720	301	570	457	326	248	76	50	326
18	7.0	367	489	1,100	910	540	450	323	222	76	56	313
19	5.5	163	468	820	1,590	520	446	354	227	70	76	292
20	5.5	231	526	610	512	496	438	354	232	95	80	304
21	5.5	147	2,020	470	627	358	431	351	227	60	82	295
22	6.5	118	861	370	610	275	410	348	202	60	73	310
23	20	100	654	300	576	272	390	310	202	56	85	310
24	13	111	583	260	537	335	380	301	207	57	83	310
25	9.0	86	538	250	550	465	442	298	205	56	73	301
26	8.0	76	829	240	560	435	435	287	202	56	78	307
27	7.5	114	1,180	235	560	746	413	261	207	55	71	313
28	7.0	319	984	235	1,880	640	409	298	205	55	70	304
29	6.5	477	1,280	290	-----	4,750	395	313	215	57	70	307
30	6.0	2,790	803	470	-----	2,720	385	323	212	70	73	319
31	5.5	-----	676	741	-----	1,650	-----	323	-----	48	73	-----
TOTAL	3,878.3	12,046.1	22,962	26,609	15,858	27,480	19,209	10,120	7,727	2,984	2,140	7,852
MEAN	125	402	741	854	566	886	640	326	256	96.3	69.0	262
MAX	333	2,790	2,020	7,460	1,880	4,750	3,660	375	335	237	85	326
MIN	5.5	5.2	454	235	76	272	380	261	202	48	50	65
AC-FT	7,690	23,890	45,550	52,780	31,450	54,510	39,100	20,070	15,330	5,920	4,240	15,570
CAL YR 1973	TOTAL	146,878.4	MEAN	402	MAX	3,580	MIN	5.2	AC-FT	291,300		
WTR YR 1974	TOTAL	158,865.4	MEAN	435	MAX	7,460	MIN	5.2	AC-FT	315,100		

PEAK DISCHARGE (BASE, 3,300 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-16	0315	13.93	4,460	2-19	0200	14.98	5,630
11-30	1315	13.63	4,210	3-29	2115	16.61	7,160
12-21	0645	14.14	4,630	4-1	0315	14.44	5,140
1-16	0830	21.04	12,200				

RUSSIAN RIVER BASIN

11461800 LAKE MENDOCINO NEAR UKIAH, CALIF.

LOCATION.--Lat 39°11'53", long 123°10'50", in Yokayo Rancho Grant, Mendocino County, in intake tower 30 ft (9.1 m) upstream from Coyote Dam on East Fork Russian River, and 3.6 mi (5.8 km) northeast of Ukiah.

DRAINAGE AREA.--105 mi² (272 km²).

PERIOD OF RECORD.--October 1965 to current year. Records prior to October 1965 in files of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 110,900 acre-ft (137 hm³) Apr. 1 (elevation, 758.82 ft or 231.288 m); minimum, 41,600 acre-ft (51.3 hm³) Nov. 7 (elevation, 717.62 ft or 218.731 m).

Period of record: Maximum contents, 114,800 acre-ft (142 hm³) Jan. 24, 1970 (elevation, 760.86 ft or 231.910 m); minimum, 41,600 acre-ft (51.3 hm³) Nov. 7, 1973 (elevation, 717.62 ft or 218.731 m).

REMARKS.--Reservoir is formed by earthfill dam; storage began in November 1958. Capacity, 122,900 acre-ft (152 hm³) between elevations 637.0 ft (194.16 m), invert of outlet tunnel and 764.8 ft (233.11 m), spillway crest, above mean sea level. Storage affected by diversions from Eel River through Potter Valley powerhouse (see sta 11471000). Water is released down East Fork Russian River for irrigation and recreation use. Records given herein represent total contents.

CAPACITY TABLE (ELEVATION, IN FEET, AND CONTENTS, IN ACRE-FEET)

637	135	660	2,110	685	10,900	720	45,000
640	250	665	3,190	690	13,700	730	60,100
645	535	670	4,590	695	17,100	740	76,900
650	900	675	6,280	700	21,100	750	94,600
655	1,380	680	8,430	710	31,620	765	122,900

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54,800	42,000	71,700	60,600	64,700	33,500	110,900	90,300	90,800	90,100	74,000	61,000
2	54,900	42,200	73,300	60,300	65,600	36,000	107,200	90,200	91,000	90,000	74,100	60,400
3	54,900	42,000	71,800	61,400	66,500	33,900	102,900	90,000	91,100	89,000	77,000	59,600
4	54,200	41,700	67,200	62,600	67,300	17,300	96,300	89,600	91,100	89,100	77,100	58,800
5	54,200	41,000	62,600	63,500	68,100	70,400	94,600	89,200	91,100	86,700	76,600	57,900
6	54,300	41,700	61,400	64,500	68,900	67,700	89,500	88,800	91,100	88,200	76,100	57,300
7	54,300	41,900	62,300	65,400	69,600	68,300	88,000	88,400	91,000	87,800	75,500	57,100
8	54,200	42,100	63,000	66,300	70,400	69,500	89,100	88,000	91,000	87,700	75,000	57,000
9	53,900	42,800	63,800	67,100	71,100	70,500	90,400	87,400	90,900	87,500	74,100	56,800
10	53,600	44,000	64,600	67,900	71,200	71,600	91,400	90,900	90,900	87,300	73,700	56,700
11	53,200	46,000	65,600	68,800	67,800	73,400	92,400	87,800	90,800	87,100	73,100	56,600
12	52,900	43,800	66,800	69,700	64,600	75,000	92,900	88,400	90,700	86,900	72,500	56,400
13	52,600	40,400	68,100	70,800	61,400	77,200	92,200	88,900	90,700	86,600	72,000	56,200
14	52,300	41,200	69,500	75,700	60,000	78,300	91,400	89,500	90,700	86,200	71,500	55,800
15	51,900	41,700	70,500	72,000	60,200	79,300	91,000	90,000	90,700	85,900	70,700	55,400
16	51,300	45,600	71,500	94,700	60,600	80,300	90,700	90,400	90,800	85,500	70,100	55,000
17	50,600	46,000	68,700	94,700	61,200	81,300	90,600	90,500	90,700	85,100	69,400	54,900
18	50,000	47,000	63,600	98,100	63,000	82,200	90,500	90,600	90,700	84,800	68,000	54,600
19	49,300	57,000	58,100	92,200	66,900	83,100	90,400	90,700	90,600	84,400	68,200	54,300
20	48,700	57,000	57,200	81,600	67,800	83,900	90,500	90,800	90,700	84,000	67,700	54,000
21	48,300	58,200	60,700	76,100	64,000	84,600	90,500	90,800	90,800	83,600	67,200	53,700
22	47,600	63,400	60,300	68,800	70,100	85,100	90,400	90,800	90,700	83,200	66,700	53,400
23	47,000	64,700	59,300	63,600	71,200	85,700	90,400	90,700	90,600	82,700	66,100	53,100
24	46,400	68,100	58,300	59,600	72,200	86,400	90,400	90,700	90,600	82,300	65,500	52,900
25	45,700	62,000	57,100	59,000	73,100	87,300	90,500	90,600	90,500	81,800	64,900	52,600
26	45,100	59,100	58,600	54,700	74,200	88,200	90,500	90,500	90,500	81,300	64,400	52,400
27	44,400	59,300	61,400	60,400	75,200	89,700	90,500	90,500	90,400	80,900	64,000	52,100
28	43,800	59,900	62,000	61,000	76,200	91,700	90,400	90,500	90,400	80,400	63,200	51,900
29	43,300	61,000	61,300	61,500	-----	100,700	90,400	90,400	90,300	79,900	62,500	51,600
30	43,000	67,400	61,500	62,300	-----	103,000	90,400	90,600	90,200	79,500	62,100	51,300
31	42,700	-----	61,300	63,600	-----	103,000	-----	90,700	-----	79,000	61,500	-----
MAX	54,900	67,400	73,300	98,700	79,200	105,600	110,900	90,800	91,100	90,100	74,000	61,000
MIN	42,700	61,700	57,100	59,000	60,000	77,700	88,000	87,300	90,200	89,000	61,500	51,300
(a)	718.41	734.58	730.74	732.20	741.40	755.12	747.73	747.90	747.63	741.30	730.90	724.37
(b)	-12,100	+24,700	-6,100	+2,300	+15,600	+24,800	-13,600	+300	-500	-11,200	-17,500	-10,200

CAL YR 1973 b -9,100
WTR YR 1974 b -3,500

a Elevation, in feet, at end of month.
b Change in contents, in acre-feet.

11462000 EAST FORK RUSSIAN RIVER NEAR UKIAH, CALIF.

LOCATION.--Lat 39°11'51", long 123°11'11", in Yokayo Rancho Grant, Mendocino County, on right bank of outlet channel, 500 ft (152 m) downstream from Coyote Dam, 1,300 ft (396 m) upstream from mouth, and 3.2 mi (5.1 km) northeast of Ukiah.

DRAINAGE AREA.--105 mi² (272 km²).

PERIOD OF RECORD.--August 1911 to September 1913, October 1951 to June 1956, October 1957 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 614.41 ft (187.272 m) above mean sea level. Prior to October 1951, nonrecording gage at site 0.5 mi (0.8 km) upstream at different datum. October 1951 to June 1956, water-stage recorder at site 1.0 mi (1.6 km) upstream at different datum.

AVERAGE DISCHARGE (unadjusted).--7 years (1911-13, 1951-55, 1957-58), 356 ft³/s (10.08 m³/s), 257,900 acre-ft/yr (318 hm³/yr); 15 years (1959-74), 359 ft³/s (10.17 m³/s), 260,100 acre-ft/yr (321 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 6,320 ft³/s (179 m³/s) Jan. 17 (gage height, 9.66 ft or 2.944 m); minimum daily, 29 ft³/s (0.82 m³/s) Nov. 8, 9.

Period of record (prior to regulation by Lake Mendocino): Maximum discharge, 13,300 ft³/s (377 m³/s) Dec. 21, 1955 (gage height, 16.86 ft or 5.139 m, site and datum then in use), from rating curve extended above 1,700 ft³/s (48.1 m³/s) on basis of maximum flow at station upstream which was defined to 8,600 ft³/s (244 m³/s); no flow Aug. 13-15, 1913.

1957 to current year: Maximum discharge, 7,350 ft³/s (208 m³/s) Jan. 24, 1970 (gage height, 10.84 ft or 3.304 m); minimum daily, 0.02 ft³/s (0.001 m³/s) Apr. 17, 1973.

REMARKS.--Records good. Flow affected by diversion from Eel River through Potter Valley powerhouse (see sta 11471000) and since November 1958 by storage in Lake Mendocino 500 ft (152 m) upstream (see sta 11461800). Diversions above station for irrigation of about 8,000 acres (32.4 km²). Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT
1	255	131	33	1,290	32	35	256	413	241	248	248	342
2	274	131	33	542	32	35	3,220	414	241	270	278	348
3	310	128	1,540	31	32	2,150	3,240	341	281	278	278	457
4	664	128	3,010	31	32	3,970	3,210	612	306	278	278	514
5	306	128	2,980	31	32	4,050	2,660	612	302	278	278	516
6	310	128	1,160	31	33	2,480	3,150	612	304	278	278	457
7	306	63	32	31	33	34	1,410	612	305	278	278	343
8	310	29	32	31	33	33	36	612	305	278	315	343
9	326	29	32	31	33	33	36	611	305	278	315	343
10	334	31	32	31	385	33	35	411	293	278	326	343
11	334	31	33	31	2,240	34	36	36	293	278	326	340
12	334	31	33	31	2,220	34	324	36	283	278	326	339
13	334	31	33	32	2,190	34	345	36	277	278	326	330
14	334	31	33	33	825	35	346	36	262	278	326	303
15	330	31	33	35	32	35	613	36	244	278	326	504
16	330	32	33	38	32	35	576	119	248	278	326	456
17	330	32	1,920	2,090	32	35	490	282	249	278	326	402
18	330	31	3,310	2,020	33	35	490	282	249	278	326	401
19	330	31	3,340	4,270	33	35	438	282	224	278	326	419
20	330	31	1,330	6,000	32	35	411	321	212	278	326	430
21	326	31	634	4,340	33	35	412	345	213	278	326	430
22	326	31	1,300	3,120	33	35	413	339	213	278	326	430
23	326	31	1,290	3,100	33	35	413	340	213	278	326	427
24	326	32	1,280	2,550	33	35	411	342	213	278	326	425
25	326	31	1,280	711	33	35	413	342	215	278	326	434
26	322	31	459	32	33	35	413	343	216	278	326	436
27	322	32	31	32	33	36	413	339	234	278	326	431
28	322	33	743	32	35	138	413	277	252	278	326	424
29	216	33	1,300	32	-----	175	413	241	251	278	326	424
30	157	33	1,300	32	-----	753	413	241	250	278	326	424
31	141	-----	1,300	32	-----	2,740	-----	239	-----	287	326	-----
TOTAL	9,821	1,456	29,899	30,673	8,612	17,302	26,850	10,304	7,718	1,903	10,407	12,485
MEAN	317	51.9	964	989	308	558	495	332	257	255	336	416
MAX	664	131	3,340	6,000	2,240	4,050	3,240	612	306	287	326	516
MIN	141	29	31	31	32	33	36	36	212	213	244	339
AC-FT	19,480	3,040	59,300	60,840	17,000	34,320	53,200	20,440	15,310	15,680	20,640	24,760

CAL YR 1973 TOTAL 161,022.12 MEAN 441 MAX 4,230 MIN .02 AC-FT 319,400
WTR YR 1974 TOTAL 173,530.00 MEAN 475 MAX 6,000 MIN 29 AC-FT 344,200

RUSSIAN RIVER BASIN

11462500 RUSSIAN RIVER NEAR HOPLAND, CALIF.

LOCATION.--Lat 39°01'36", long 123°07'46", in Rancho de Sanel Grant, Mendocino County, on right bank at abandoned highway bridge, 0.2 mi (0.3 km) downstream from McNab Creek, 4 mi (6 km) north of Hopland.

DRAINAGE AREA.--362 mi² (938 km²).

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 497.61 ft (151.672 m) above mean sea level. Prior to Sept. 9, 1943, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--35 years, 736 ft³/s (20.84 m³/s), 533,200 acre-ft/yr (657 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 39,700 ft³/s (1,120 m³/s) Jan. 16 (gage height, 25.50 ft or 7.772 m); minimum daily, 138 ft³/s (3.91 m³/s) Nov. 4.
Period of record: Maximum discharge, 45,000 ft³/s (1,270 m³/s) Dec. 22, 1955 (gage height, 27.00 ft or 8.230 m); minimum daily, 26 ft³/s (0.74 m³/s) Dec. 18, 1943, June 26, 1949.
Flood in December 1937 reached a stage of 30.0 ft (9.14 m), from floodmarks.

REMARKS.--Records good. Diversions for irrigation of about 11,800 acres (47.8 km²) above station. Flow also affected by diversion into basin (see REMARKS for East Fork Russian River stations) and since November 1958 by storage in Lake Mendocino 15 mi (24 km) upstream (see sta 11461800). Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1041: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	239	146	4,500	1,870	915	5,930	8,830	650	291	241	262	350
2	243	140	2,400	1,450	683	4,250	6,720	628	291	246	268	350
3	271	140	3,100	1,060	601	4,210	5,310	661	299	259	270	350
4	521	138	3,590	975	542	5,640	4,590	717	333	263	271	428
5	283	239	3,380	873	505	5,430	3,860	706	328	263	281	429
6	271	279	2,290	809	464	4,420	3,950	700	328	261	283	428
7	271	400	706	757	429	1,830	2,940	678	328	263	282	339
8	271	526	606	728	400	1,530	1,280	661	333	271	285	328
9	275	1,050	515	689	373	1,320	1,410	650	333	236	310	328
10	283	2,090	444	644	355	1,200	1,160	606	333	228	318	327
11	287	4,600	666	622	1,780	1,950	1,020	253	328	222	315	321
12	287	3,600	661	861	1,960	2,070	981	212	342	225	321	317
13	287	2,250	1,320	1,030	1,930	1,810	1,470	195	297	244	326	328
14	287	1,410	1,040	1,410	1,290	1,540	1,440	183	289	243	343	418
15	287	951	803	1,780	391	1,370	1,330	173	271	243	345	426
16	283	4,060	655	14,600	439	1,240	1,140	260	270	242	340	419
17	283	2,340	1,600	8,390	387	1,130	1,020	400	272	239	340	377
18	283	2,390	3,280	5,140	644	1,040	987	364	268	239	340	368
19	283	1,120	3,320	6,590	4,300	969	939	378	262	237	340	374
20	283	975	2,260	6,940	1,400	909	873	382	247	230	340	395
21	283	815	3,590	5,390	1,080	855	844	405	237	225	340	400
22	299	745	2,920	3,790	903	815	815	410	233	227	340	400
23	342	622	2,170	3,560	700	774	786	405	235	240	340	403
24	333	655	1,930	3,200	584	745	774	396	234	241	340	405
25	307	536	1,760	1,760	500	809	780	391	228	239	340	405
26	299	474	1,630	987	464	786	780	391	227	244	340	405
27	295	434	2,190	803	439	1,230	740	387	226	244	340	413
28	291	415	2,800	706	4,790	1,780	711	360	241	243	345	415
29	257	542	3,510	633	-----	10,700	683	307	239	244	345	415
30	179	7,400	2,640	579	-----	11,900	666	299	238	243	345	418
31	164	-----	2,150	723	-----	5,170	-----	291	-----	244	345	-----
TOTAL	8,827	41,482	64,426	79,349	29,248	85,352	58,829	13,499	8,381	7,529	9,940	11,479
MEAN	285	1,383	2,078	2,560	1,045	2,753	1,961	435	279	243	321	383
MAX	521	7,400	4,500	14,600	4,790	11,900	8,830	717	342	271	345	429
MIN	164	138	444	579	355	745	666	173	226	222	262	317
AC-FT	17,510	82,280	127,800	157,400	58,010	169,300	116,700	26,780	16,620	14,930	19,720	22,770

CAL YR 1973 TOTAL 364,021 MEAN 997 MAX 10,200 MIN 115 AC-FT 722,000
WTR YR 1974 TOTAL 418,341 MEAN 1,146 MAX 14,600 MIN 138 AC-FT 829,800

11463000 RUSSIAN RIVER NEAR CLOVERDALE, CALIF.

LOCATION.--Lat 38°52'46", long 123°03'09", in NW¼NW¼ sec.23, T.12 N., R.11 W., Mendocino County, on left bank 0.3 mi (0.5 km) downstream from Cummisky Creek, and 5.5 mi (8.8 km) northwest of Cloverdale.

DRAINAGE AREA.--503 mi² (1,303 km²).

PERIOD OF RECORD.--July 1951 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 350 ft (107 m), from topographic map. Prior to July 30, 1970, at site 0.2 mi (0.3 km) upstream at different datum.

AVERAGE DISCHARGE.--23 years, 1,024 ft³/s (29.00 m³/s), 741,900 acre-ft/yr (915 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 51,900 ft³/s (1,470 m³/s) Jan. 16 (gage height, 26.50 ft or 8.077 m), from rating curve extended above 21,000 ft³/s (595 m³/s); minimum daily, 137 ft³/s (3.88 m³/s) Nov. 4.

Period of record: Maximum discharge, 55,200 ft³/s (1,560 m³/s) Dec. 22, 1964 (gage height, 31.60 ft or 9.632 m, site and datum then in use); minimum daily, 80 ft³/s (2.27 m³/s) May 25, 1970.

REMARKS.--Records good. Diversions for irrigation of about 15,300 acres (61.9 km²) above station. Flow also affected by diversion into basin (see REMARKS for East Fork Russian River stations) and since November 1958 by storage in Lake Mendocino 28 mi (45 km) upstream (see sta 11461800).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	244	158	10,900	2,790	1,450	9,230	12,900	700	302	230	250	332
2	244	147	4,150	2,300	1,060	6,000	8,390	686	302	228	261	332
3	275	141	3,010	1,750	896	4,610	6,570	705	302	248	261	341
4	458	137	4,260	1,820	815	5,850	5,580	797	338	256	263	429
5	398	347	4,070	1,470	732	5,550	4,750	797	341	261	274	433
6	305	504	3,260	1,350	663	4,970	4,770	792	338	281	282	436
7	311	611	1,270	1,230	628	2,250	3,830	772	335	288	280	369
8	305	921	1,040	1,180	586	1,720	1,630	762	335	284	274	335
9	305	2,100	980	1,100	546	1,340	1,830	743	338	286	291	332
10	323	5,090	756	1,010	519	1,180	1,480	724	341	235	297	326
11	326	8,670	1,000	990	1,900	3,390	1,230	372	332	285	297	323
12	326	6,150	1,110	1,910	2,600	3,200	1,090	261	326	218	299	317
13	326	4,350	2,400	2,300	2,640	2,560	1,640	230	302	218	302	317
14	329	3,370	1,790	6,270	2,060	1,970	1,650	209	299	245	323	398
15	329	2,270	1,390	12,600	699	1,610	1,550	198	280	248	323	447
16	329	7,480	1,140	40,900	732	1,360	1,330	191	272	248	329	458
17	329	4,740	1,730	16,300	663	1,150	1,140	308	274	240	329	405
18	329	4,420	3,800	9,400	699	1,020	1,090	379	266	235	323	385
19	329	2,480	3,830	10,100	6,490	927	1,050	412	269	235	329	375
20	329	1,900	3,090	12,600	2,460	830	956	412	248	285	326	395
21	335	1,640	5,280	11,300	1,950	727	917	447	238	221	335	405
22	389	1,580	4,570	7,700	1,670	690	874	450	233	221	335	405
23	483	1,280	3,360	7,000	1,300	704	653	447	230	230	335	408
24	427	1,250	2,940	6,400	1,110	658	828	440	228	235	332	408
25	368	1,030	2,640	4,000	969	718	833	433	223	233	329	408
26	350	906	2,480	2,000	885	742	864	429	210	230	332	408
27	341	810	3,610	1,400	470	2,060	812	433	214	230	335	408
28	335	766	4,200	1,200	8,840	3,010	772	412	228	230	335	412
29	323	1,040	4,580	1,000	-----	14,900	743	332	230	235	332	408
30	210	11,800	3,820	880	-----	19,700	719	317	225	243	332	408
31	186	-----	3,190	1,030	-----	8,340	-----	305	-----	235	332	-----
TOTAL	10,197	78,088	95,546	173,280	46,432	112,976	72,671	14,895	8,405	7,427	9,577	11,563
MEAN	329	2,603	3,082	5,590	1,658	3,644	2,422	480	280	280	309	385
MAX	483	11,800	10,900	40,900	8,840	19,700	12,400	797	341	284	335	458
MIN	186	137	756	880	519	658	719	191	214	218	250	317
AC-FT	20,230	154,900	189,500	343,700	92,100	224,100	144,100	29,540	16,670	14,740	19,000	22,960

CAL YR 1973 TOTAL 534,014 MEAN 1,663 MAX 13,800 MIN 103 AC-FT 1,959,000
 WTR YR 1974 TOTAL 641,057 MEAN 1,756 MAX 40,900 MIN 137 AC-FT 1,272,000

RUSSIAN RIVER BASIN

11463900 MAACAMA CREEK NEAR KELLOGG, CALIF.

LOCATION.--Lat 38°38'25", long 122°45'45", in SW¼ sec.9, T.9 N., R.8 W., Sonoma County, on right bank 0.5 mi (0.8 km) downstream from Redwood Creek, and 4.4 mi (7.1 km) west of Kellogg.

DRAINAGE AREA.--43.4 mi² (112.4 km²).

PERIOD OF RECORD.--Occasional low-flow measurements and annual maximum, water years 1958-60, December 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 188.91 ft (57.580 m) above mean sea level. Prior to Dec. 20, 1960, crest-stage gage only at site 700 ft (213 m) upstream at different datum.

AVERAGE DISCHARGE.--13 years (1961-74), 93.8 ft³/s (2.656 m³/s), 67,960 acre-ft/yr (83.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 5,630 ft³/s (159 m³/s) Mar. 28 (gage height, 14.39 ft or 4.386 m); minimum daily, 0.70 ft³/s (0.020 m³/s) Sept. 12, 13.
Period of record: Maximum discharge, 8,920 ft³/s (253 m³/s) Dec. 22, 1964 (gage height, 17.56 ft or 5.352 m); no flow for many days in 1964 and 1968.

REMARKS.--Records good except those for period of no gage-height record, which are poor. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	2.9	1,700	145	156	1,190	1,100	30	13	6.0	2.1	1.1
2	1.8	2.8	480	135	108	794	650	37	13	3.8	1.8	1.2
3	1.6	2.7	310	211	97	436	412	36	12	3.6	1.5	1.2
4	1.4	2.8	215	235	87	299	300	34	12	3.1	1.5	1.0
5	1.3	7.3	182	166	77	236	255	33	11	3.0	1.6	1.0
6	1.3	11.8	145	166	71	199	215	22	10	2.9	1.5	1.1
7	3.9	467	122	149	67	262	185	29	9.0	2.7	1.2	.94
8	3.0	134	110	135	62	200	167	25	8.6	2.0	.94	1.0
9	2.5	758	102	123	50	163	192	25	7.9	2.0	.94	1.0
10	1.9	1,170	98	112	60	146	145	26	6.2	1.7	1.0	.94
11	1.5	2,030	125	109	58	564	120	25	6.7	6.6	1.3	.79
12	1.4	1,360	115	177	66	330	119	24	7.1	6.0	1.7	.70
13	1.5	1,480	340	353	56	250	98	23	7.5	5.2	2.0	.70
14	1.3	739	210	1,200	51	207	90	22	7.9	4.7	2.1	.74
15	1.3	547	135	1,080	46	174	84	21	7.5	4.2	1.9	.94
16	1.3	1,760	145	2,660	59	150	78	20	7.0	3.6	1.5	1.6
17	1.3	1,060	292	1,020	40	130	75	18	7.2	3.3	1.3	1.5
18	1.3	605	152	1,130	59	112	71	18	7.7	3.3	1.3	1.2
19	1.3	375	140	633	483	102	66	16	7.2	3.2	1.2	1.2
20	1.7	255	130	424	160	94	61	17	7.7	3.0	1.1	1.1
21	2.8	210	895	322	144	87	57	16	7.5	2.7	1.0	1.3
22	53	165	480	252	115	81	55	16	6.8	2.5	.94	.89
23	81	140	290	208	98	76	54	15	6.2	2.4	1.0	1.0
24	16	122	180	175	80	107	56	16	6.0	2.3	1.0	1.5
25	7.3	110	155	151	82	145	49	16	5.8	2.4	1.1	1.5
26	5.6	97	220	132	80	841	53	15	7.2	2.3	1.2	1.5
27	4.4	89	315	114	75	502	48	15	5.6	2.3	.94	1.5
28	3.3	81	300	104	1,670	3,670	44	14	4.8	2.5	.79	1.5
29	3.3	75	240	97	-----	1,430	43	15	4.6	2.5	.84	1.5
30	2.8	250	195	91	-----	850	39	14	4.1	2.4	.79	1.4
31	2.8	-----	160	137	-----	1,700	-----	13	-----	2.2	.89	-----
TOTAL	218.7	14,265.2	9,588	12,146	4,286	15,567	4,470	637	234.2	141.5	49.87	33.94
MEAN	7.03	476	277	392	153	502	166	22.2	7.33	4.55	1.24	1.13
MAX	81	2,030	1,700	2,660	1,670	3,670	1,100	58	13	20	2.1	1.5
MIN	1.3	2.7	98	91	40	76	39	13	4.0	2.2	.79	.70
ACFT	432	28,300	17,030	24,690	8,500	30,880	9,860	1,350	466	281	79	67
CAL YR 1973	TOTAL 54,245.40 MEAN 149 MAX 3,290 MIN .22 ACFT 107,860											
WTR YR 1974	TOTAL 61,177.31 MEAN 168 MAX 3,670 MIN .70 ACFT 121,300											

PEAK DISCHARGE (BASE, 2,000 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-11	2200	12.83	4,380	2-28	1430	11.32	3,240
11-16	0430	12.93	4,460	3-26	1730	10.90	2,960
12-1	unknown	12.96	4,490	3-28	1930	14.39	5,630
12-6	0900	14.38	5,620	3-31	0015	10.23	2,560

NOTE.--No gage-height record Nov. 20 to Jan. 2.

11464000 RUSSIAN RIVER NEAR HEALDSBURG, CALIF.

LOCATION.--Lat 38°36'48", long 122°50'07", in Sotoyome Grant, Sonoma County, on left bank 2 mi (3 km) east of Healdsburg, and 3.5 mi (5.6 km) upstream from Dry Creek.

DRAINAGE AREA.--793 mi² (2,054 km²).

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 77.01 ft (23.473 m) above mean sea level.

AVERAGE DISCHARGE.--35 years, 1,470 ft³/s (41.63 m³/s), 1,065,000 acre-ft/yr (1.31 km³/yr).

EXTREMES.--Current year: Maximum discharge, 64,700 ft³/s (1,830 m³/s) Jan. 16 (gage height, 24.62 ft or 7.504 m); minimum daily, 192 ft³/s (5.44 m³/s) July 7.

Period of record: Maximum discharge, 71,300 ft³/s (2,020 m³/s) Dec. 23, 1964 (gage height, 27.00 ft or 8.230 m); maximum gage height, 30.0 ft (9.14 m) Feb. 28, 1940; minimum daily discharge, 38 ft³/s (1.08 m³/s) July 2, 1950.

Flood of December 1937 reached a stage of 30.8 ft (9.39 m) from floodmarks.

REMARKS.--Records good. Several diversions for irrigation of about 17,800 acres (72.0 km²) above station. Flow also affected by diversion into basin (see REMARKS for East Fork Russian River stations) and since November 1958 by storage in Lake Mendocino 63 mi (101 km) upstream (see sta 11461800). Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 981: 1942.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	211	266	23,400	3,710	2,380	15,800	21,400	1,030	324	218	209	383
2	214	238	9,010	3,270	1,900	14,700	14,600	988	305	216	234	382
3	217	221	5,470	3,210	1,640	8,970	10,500	954	300	207	249	376
4	240	211	5,820	3,410	1,510	8,920	8,440	1,010	285	205	246	387
5	322	328	5,520	2,750	1,390	8,140	7,440	1,050	280	200	252	405
6	343	1,200	5,040	2,560	1,300	7,690	6,410	1,030	277	195	272	410
7	340	1,550	3,030	2,360	1,230	5,440	6,210	1,010	275	192	271	415
8	332	1,670	2,370	2,240	1,160	4,220	4,020	976	272	210	271	325
9	324	2,550	2,100	2,120	1,110	3,320	3,590	943	270	290	270	310
10	312	10,500	1,390	1,980	1,070	2,840	3,380	911	270	270	290	300
11	328	18,400	1,950	1,870	1,430	6,800	2,850	829	270	245	317	290
12	324	19,600	2,200	2,470	2,470	8,030	2,480	561	265	235	330	298
13	324	9,770	3,700	3,780	2,770	5,980	2,530	475	260	225	335	298
14	328	8,710	3,280	7,120	2,620	4,610	2,820	433	255	220	340	303
15	328	5,870	2,690	20,700	1,480	3,860	2,700	410	250	220	360	361
16	328	17,100	2,330	41,200	1,220	3,300	2,450	388	255	220	366	388
17	324	10,300	2,480	39,700	1,200	2,820	2,140	366	255	220	373	388
18	328	9,420	3,990	17,400	1,110	2,400	1,960	450	260	220	377	361
19	328	5,250	4,370	14,300	7,300	2,030	1,860	494	244	220	373	351
20	332	3,850	4,330	12,900	4,600	1,750	1,700	500	242	220	376	351
21	340	3,350	6,510	11,100	3,700	1,530	1,570	507	235	218	373	366
22	391	2,350	7,660	7,560	2,350	1,370	1,490	500	230	218	378	366
23	1,010	2,640	4,930	6,430	1,400	1,260	1,420	490	228	217	374	371
24	682	2,410	4,120	5,700	1,600	1,140	1,380	470	225	215	375	371
25	502	2,140	3,580	5,200	1,480	1,200	1,360	455	220	215	372	366
26	436	1,970	3,530	3,700	1,360	1,340	1,370	430	220	209	376	371
27	401	1,750	5,300	2,500	1,300	4,280	1,340	395	210	203	378	377
28	386	1,650	5,500	2,100	4,500	8,220	1,220	365	218	207	379	377
29	372	1,540	5,400	1,850	-----	16,700	1,150	315	216	214	380	377
30	353	11,000	5,190	1,620	-----	40,900	1,080	310	220	216	374	377
31	287	-----	4,230	1,700	-----	15,900	-----	350	-----	209	381	-----
TOTAL	11,372	158,782	150,820	238,110	50,080	215,550	122,860	19,455	7,636	6,789	10,251	10,801
MEAN	367	5,292	4,865	7,681	2,110	6,953	4,095	628	255	219	331	360
MAX	1,010	19,600	23,400	41,200	7,300	40,900	21,400	1,050	324	290	381	415
MIN	211	211	1,890	1,620	1,070	1,140	1,080	315	210	192	209	290
AC-FT	22,560	314,900	299,200	472,300	117,200	427,500	243,700	38,590	15,150	13,470	20,330	21,420
CAL YR 1973	TOTAL	918,929	MEAN	2,518	MAX	32,460	MIN	160	AC-FT	1,823,000		
WTR YR 1974	TOTAL	1,011,506	MEAN	2,771	MAX	41,200	MIN	132	AC-FT	2,006,000		

RUSSIAN RIVER BASIN

11464400 DRY CREEK NEAR YORKVILLE, CALIF.

LOCATION.--Lat 38°47'21", long 123°19'16", in SE¼NE¼ sec.23, T.11 N., R.12 W., Sonoma County, on right bank at downstream side of bridge on Hot Springs Road, 0.1 mi (0.2 km) downstream from Rail Creek, 7.5 mi (12.1 km) west of Cloverdale, and 8.2 mi (13.2 km) southeast of Yorkville.

DRAINAGE AREA.--56.0 mi² (145.0 km²).

PERIOD OF RECORD.--October 1973 to September 1974.

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 500 ft (152 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 15,400 ft³/s (436 m³/s) Jan. 16 (gage height, 13.50 ft or 4.115 m); minimum daily, 1.1 ft³/s (0.031 m³/s) Oct. 1-4, Sept. 22-29.

REMARKS.--Records good. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	10	1,790	212	212	2,220	1,790	59	12	5.1	3.1	2.1
2	1.1	9.1	525	188	171	1,230	916	57	13	4.8	3.0	2.0
3	1.1	8.1	306	225	155	664	618	54	12	4.9	2.7	1.9
4	1.1	8.1	247	280	146	454	425	49	11	4.7	2.7	1.8
5	1.1	243	200	270	140	412	385	45	11	4.5	2.7	1.6
6	1.5	182	171	256	134	353	323	43	11	4.2	2.8	1.7
7	6.0	378	162	247	128	378	267	36	11	4.3	2.7	1.7
8	6.0	238	166	247	122	275	237	34	11	32	2.5	1.5
9	4.2	1,040	134	238	116	256	261	32	10	18	2.3	1.4
10	2.7	1,300	122	238	111	256	232	28	10	9.4	2.4	1.4
11	2.2	2,300	158	247	108	862	214	27	8.8	7.5	2.4	1.4
12	1.0	1,230	146	507	131	592	206	27	10	6.4	2.4	1.4
13	2.0	696	372	582	116	490	193	27	9.4	6.4	2.3	1.4
14	1.7	466	266	1,960	108	398	181	25	9.4	5.9	2.2	1.4
15	1.5	425	221	3,200	105	300	173	23	9.4	5.1	2.2	1.4
16	1.5	2,050	200	8,410	110	256	166	22	8.8	4.9	2.0	1.4
17	1.5	960	285	2,580	108	225	159	23	10	4.9	2.1	1.4
18	1.5	707	225	1,510	158	200	148	25	10	4.9	2.0	1.4
19	1.5	301	200	1,050	498	185	138	25	11	4.9	2.0	1.3
20	1.5	295	192	788	192	178	128	22	11	4.6	2.0	1.3
21	7.1	216	1,180	582	216	168	115	22	9.4	4.3	2.1	1.2
22	100	229	632	432	182	158	112	20	7.7	4.1	2.1	1.1
23	155	196	323	335	158	152	104	19	7.7	3.8	2.0	1.1
24	58	188	261	275	143	146	101	16	7.2	4.2	2.0	1.1
25	34	168	192	234	134	155	98	16	6.7	4.2	2.0	1.1
26	23	158	238	204	125	158	101	15	6.7	3.6	2.0	1.1
27	18	146	405	185	110	468	89	14	6.2	3.3	2.0	1.1
28	14	140	391	171	2,360	385	80	13	6.2	3.2	2.0	1.1
29	13	300	366	158	-----	3,710	73	14	6.2	3.2	1.8	1.1
30	11	2,230	280	149	-----	3,910	67	13	5.5	3.1	2.0	1.2
31	10	-----	243	234	-----	1,020	-----	13	-----	3.1	2.2	-----
TOTAL	445.9	16,886.3	10,179	26,194	6,515	20,614	8,100	858	279.3	187.5	70.7	42.1
MEAN	15.7	563	328	845	233	665	270	27.7	9.31	6.05	2.28	1.40
MAX	155	2,300	1,390	8,410	2,360	3,910	1,790	59	13	32	3.1	2.1
MIN	1.1	8.1	122	149	105	146	67	13	5.5	3.1	1.8	1.1
AC-FT	964	33,490	20,130	51,960	12,920	40,890	16,070	1,700	554	372	140	84
WTR YR 1974	TOTAL 90,411.8 MEAN 248 MAX 8,410 MIN 1.1 AC-FT 179,300											

PEAK DISCHARGE (BASE, 3,000 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-11	0715	8.05	3,680	1-16	0800	13.50	15,400
11-16	0330	8.25	4,020	2-28	1530	9.03	5,440
11-30	1500	8.35	4,200	3-29	2345	11.29	10,000

11464500 DRY CREEK NEAR CLOVERDALE, CALIF.

LOCATION.--Lat 38°44'59", long 123°05'28", in NE¼NE¼ sec.5, T.10 N., R.11 W., Sonoma County, on left bank 500 ft (152 m) downstream from Smith Creek, and 5 mi (8 km) southwest of Cloverdale.

DRAINAGE AREA.--87.8 mi² (227.4 km²).

PERIOD OF RECORD.--October 1941 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 304.04 ft (92.671 m) above mean sea level.

AVERAGE DISCHARGE.--33 years, 166 ft³/s (4.701 m³/s), 120,300 acre-ft/yr (148 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 15,700 ft³/s (445 m³/s) Jan. 16 (gage height, 16.71 ft or 5.093 m); minimum daily, 0.84 ft³/s (0.024 m³/s) Sept. 30.

Period of record: Maximum discharge, 18,100 ft³/s (513 m³/s) Dec. 22, 1964 (gage height, 18.09 ft or 5.514 m); minimum, 0.10 ft³/s (0.003 m³/s) several days in 1944, 1949, 1951-53, 1962, 1964.

Flood in December 1937 reached a stage of about 18 ft (5.5 m), from floodmarks.

REMARKS.--Records good. No regulation or diversion above station. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1395: 1942(M), 1943, 1946(M), 1951-54(M), drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	4.3	2,260	356	265	2,640	2,500	69	21	7.7	3.5	2.0
2	1.6	4.1	1,100	311	210	1,810	1,510	66	21	7.0	3.5	2.0
3	1.6	3.9	694	405	192	1,060	949	64	19	7.0	3.5	1.9
4	1.6	3.9	492	460	175	714	680	61	18	7.0	3.5	1.7
5	1.6	254	385	424	166	549	549	57	18	6.3	3.7	1.6
6	1.9	153	319	410	153	455	435	52	18	5.9	3.5	1.6
7	2.8	380	277	405	145	526	361	51	16	6.3	3.3	1.5
8	3.3	192	246	400	136	385	328	51	16	21	3.1	1.4
9	2.9	1,090	221	385	128	324	333	46	16	19	2.9	1.4
10	2.6	1,780	199	361	120	315	281	43	15	12	2.8	1.4
11	2.3	3,040	258	390	115	1,210	250	42	14	10	2.9	1.4
12	2.3	2,050	221	700	148	957	228	41	14	8.9	2.9	1.4
13	2.1	1,190	543	823	128	714	210	38	14	8.1	2.9	1.4
14	2.1	859	395	2,290	110	543	196	36	14	7.3	2.8	1.4
15	2.0	775	319	3,960	104	429	175	35	13	6.6	2.6	1.4
16	2.0	2,590	285	9,190	133	347	166	33	13	6.3	2.6	1.4
17	2.0	1,600	415	2,940	110	289	157	35	14	5.9	2.4	1.4
18	2.0	1,190	311	2,130	163	250	151	36	14	5.9	2.4	1.3
19	2.0	721	277	1,580	647	224	136	35	14	5.9	2.3	1.3
20	2.1	573	265	1,010	285	199	128	32	14	5.6	2.3	1.3
21	2.6	420	1,620	714	311	179	120	30	13	5.1	2.4	1.0
22	44	429	1,090	543	258	166	113	29	11	4.6	2.3	1.0
23	120	351	707	440	235	151	106	28	11	4.3	2.1	1.0
24	28	324	526	370	217	139	106	27	11	4.3	2.1	.93
25	13	273	445	315	203	169	101	27	9.3	4.1	2.1	1.0
26	8.9	239	498	277	196	166	106	26	9.7	4.1	2.0	1.0
27	7.0	217	700	254	182	603	91	25	9.3	3.9	2.0	1.0
28	5.6	196	641	232	2,360	609	85	24	8.9	3.9	2.0	1.0
29	5.1	306	573	214	-----	4,040	80	23	8.5	3.9	1.9	1.0
30	4.8	2,540	471	196	-----	4,620	74	22	8.1	3.7	1.9	.84
31	4.6	-----	410	298	-----	1,910	-----	21	-----	3.7	2.0	-----
TOTAL	286.0	23,748.2	17,163	32,783	7,595	26,692	10,705	1,205	415.8	215.3	82.2	39.97
MEAN	9.23	792	554	1,058	271	861	357	38.9	13.9	6.95	2.65	1.33
MAX	120	3,040	2,260	9,190	2,360	4,620	2,500	69	21	21	3.7	2.0
MIN	1.6	3.9	199	196	104	139	74	21	8.1	3.7	1.9	.84
AC-FT	567	47,100	34,040	65,030	15,060	52,940	21,230	2,390	825	427	163	79

CAL YR 1973 TOTAL 115,082.98 MEAN 315 MAX 5,330 MIN .61 AC-FT 229,300
WTR YR 1974 TOTAL 120,930.47 MEAN 331 MAX 9,190 MIN .84 AC-FT 239,900

PEAK DISCHARGE (BASE, 3,300 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-11	0745	8.50	4,550	1-16	0915	16.71	15,700
11-16	0345	8.98	5,030	2-28	1615	9.18	5,230
11-30	1445	8.21	4,250	3-29	2330	13.21	10,300

RUSSIAN RIVER BASIN

11464860 WARM SPRINGS CREEK NEAR ASTI, CALIF.

LOCATION.--Lat 38°41'46", long 123°05'44", in SW¼SE¼ sec.20, T.10 N., R.11 W., Sonoma County, on left bank, 0.6 mi (1.0 km) upstream from Strawberry Creek, 7.9 mi (12.7 km) southwest of Asti.

DRAINAGE AREA.--12.2 mi² (31.6 km²).

PERIOD OF RECORD.--October 1973 to September 1974.

GAGE.--Water-stage recorder. Altitude of gage is 625 ft (191 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 2,230 ft³/s (63.2 m³/s) Jan. 16 (gage height, 9.66 ft or 2.944 m); minimum daily, 0.39 ft³/s (0.011 m³/s) Oct. 5.

REMARKS.--Records good. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.44	1.2	403	74	31	523	527	14	4.8	1.7	1.0	.75
2	.44	1.1	183	61	25	329	286	13	4.5	1.7	.97	.70
3	.44	1.1	119	66	22	212	184	12	4.3	1.6	.97	.65
4	.40	1.2	93	72	20	145	130	12	4.1	1.6	.91	.65
5	.39	.35	73	68	18	108	106	12	4.1	1.5	1.0	.60
6	.56	1.8	58	66	17	84	83	12	3.9	1.5	.97	.56
7	1.0	.72	48	65	15	87	69	11	3.7	1.6	.85	.56
8	.79	.23	39	67	14	63	61	11	3.5	6.5	.85	.56
9	.72	177	33	70	13	50	65	10	3.3	3.5	.85	.56
10	.65	325	29	68	12	50	50	9.6	3.3	2.5	.91	.56
11	.62	566	38	72	12	242	45	9.2	3.1	2.3	.91	.56
12	.60	324	30	129	15	231	40	8.8	3.1	2.2	.91	.52
13	.58	240	88	172	12	168	37	8.5	3.1	2.0	.91	.60
14	.57	217	62	332	10	125	33	8.2	3.1	1.8	.91	.65
15	.55	218	52	510	9.8	97	31	8.2	2.9	1.8	.85	.65
16	.55	580	45	1,360	12	78	29	7.9	3.1	1.7	.85	.65
17	.53	347	55	452	9.8	63	27	7.9	3.3	1.7	.80	.60
18	.52	261	43	302	31	53	27	8.2	3.3	1.7	.80	.56
19	.52	151	38	250	129	45	24	7.9	3.3	1.6	.75	.56
20	.69	108	35	194	60	39	23	7.3	3.1	1.5	.80	.52
21	1.7	73	185	142	52	34	21	7.0	2.8	1.4	.75	.48
22	29	76	180	105	37	31	20	6.8	2.6	1.3	.70	.52
23	16	57	122	83	31	28	20	6.5	2.5	1.3	.70	.56
24	4.2	49	94	68	27	25	19	6.3	2.3	1.3	.70	.52
25	2.6	42	77	55	24	27	19	6.0	2.2	1.2	.70	.52
26	1.9	36	87	45	22	41	19	5.8	2.2	1.2	.70	.56
27	1.6	30	120	38	21	147	17	5.3	2.0	1.2	.70	.56
28	1.6	26	107	32	620	156	16	5.3	1.9	1.2	.70	.56
29	1.4	28	118	28	-----	584	15	5.3	1.8	1.2	.70	.60
30	1.2	428	101	25	-----	671	14	5.0	1.8	1.1	.75	.56
31	1.2	-----	87	38	-----	274	-----	4.8	-----	1.0	.75	-----
TOTAL	73.96	4,511.6	2,842	5,109	1,321.6	4,810	2,057	262.8	93.0	55.4	25.62	17.46
MEAN	2.39	150	91.7	165	47.2	155	68.6	8.48	3.10	1.79	.83	.58
MAX	.29	580	403	1,360	620	671	527	14	4.8	6.5	1.0	.75
MIN	.39	1.1	29	25	9.8	25	14	4.8	1.8	1.0	.70	.48
AC-FT	147	8,950	5,640	10,130	2,620	9,540	4,080	521	184	110	51	35

WTR YR 1974 TOTAL 21,179.44 MEAN 58.0 MAX 1,360 MIN .39 AC-FT 42,010

DATE	TIME	PEAK DISCHARGE (BASE, 450 FT ³ /S)	DATE	TIME	DISCHARGE
11-11	0730	G.H. 6.65 DISCHARGE 748	2-28	1600	8.06 1,340
11-16	0300	7.56 1,110	3-29	2245	8.53 1,580
11-30	2030	7.25 973	4-1	1000	6.60 730
1-16	0945	9.66 2,230			

11465200 DRY CREEK NEAR GEYSERVILLE, CALIF.

LOCATION.--Lat 38°41'55", long 122°57'25", in Tzabaco Grant, Sonoma County, on left bank pier of bridge 0.3 mi (0.5 km) downstream from Pena Creek, and 3 mi (5 km) west of Geyserville.

DRAINAGE AREA.--162 mi² (420 km²).

PERIOD OF RECORD.--October 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 159.40 ft (48.585 m) above mean sea level. Prior to Oct. 1, 1964, at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--15 years, 346 ft³/s (9.799 m³/s), 250,700 acre-ft/yr (309 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 32,000 ft³/s (906 m³/s) Jan. 16 (gage height, 17.37 ft or 5.294 m); no flow for several days.

Period of record: Maximum discharge, 32,400 ft³/s (918 m³/s) Jan. 31, 1963 (gage height, 17.50 ft or 5.334 m, present datum); no flow at times.

REMARKS.--Records good except those for period of no gage-height record, which are fair. No regulation; small diversion above station for orchard irrigation of about 1,200 acres (4.86 km²) in summer. Records of chemical analyses, water temperatures, sediment discharge, and sediment and turbidity data for the current year are published in Part 2 of this report.

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	4.4	4,280	634	590	5,600	5,380	150	53	13	4.1	2.1
2	0	9.0	2,220	537	537	3,920	3,210	140	52	11	3.8	2.1
3	0	8.6	1,450	664	482	2,410	2,100	135	50	10	3.7	2.5
4	0	4.4	1,140	904	434	1,580	1,480	125	49	9.5	3.6	2.1
5	0	25	855	873	404	1,230	1,200	120	48	9.5	3.8	2.5
6	0	100	659	797	375	879	966	115	46	7.8	3.7	2.6
7	10	290	555	775	355	1,000	814	109	44	8.6	3.4	2.5
8	6.8	900	478	764	335	726	689	104	42	26	3.2	1.8
9	6.2	1,930	426	747	316	578	710	97	40	40	2.6	1.7
10	5.8	3,570	375	679	303	529	578	90	39	28	2.5	1.6
11	5.2	6,480	450	664	291	2,530	503	82	37	24	2.5	1.4
12	4.8	4,210	415	1,220	331	2,280	454	90	35	22	2.1	1.6
13	4.6	2,590	391	1,520	316	1,650	420	88	33	20	2.5	1.6
14	4.5	2,180	780	3,760	276	1,440	395	84	32	18	2.6	1.3
15	4.3	1,860	615	8,350	259	978	370	84	30	15	2.8	1.3
16	4.2	5,800	529	19,400	303	820	345	81	28	13	3.1	1.3
17	4.0	3,620	705	5,400	271	695	325	78	27	12	2.1	1.1
18	3.9	2,520	592	3,750	297	585	305	81	27	11	1.6	1.2
19	3.8	1,640	499	2,800	1,540	494	285	81	27	11	1.6	1.2
20	3.8	1,280	442	1,800	742	415	270	76	27	11	1.3	1.2
21	4.5	966	2,230	1,300	721	358	255	76	26	10	1.4	1.1
22	4.5	891	2,320	980	625	322	240	72	24	8.6	1.4	1.1
23	250	753	1,400	820	524	294	225	69	23	7.0	1.3	1.2
24	80	573	1,090	700	482	271	215	67	22	6.3	1.2	1.0
25	35	458	391	580	419	306	200	63	20	6.1	1.1	1.2
26	21	336	373	510	400	303	190	62	20	5.5	1.1	1.2
27	16	325	1,360	465	375	1,240	180	61	18	5.0	1.2	1.3
28	13	282	1,230	430	4,960	1,560	170	56	16	5.0	1.6	1.1
29	12	288	1,110	390	-----	6,510	165	55	14	5.0	1.6	.80
30	11	4,120	359	360	-----	10,700	155	55	13	5.0	1.8	1.1
31	10	-----	814	650	-----	3,510	-----	54	-----	4.3	2.1	-----
TOTAL	559.50	48,572.6	33,323	63,278	17,263	55,710	22,794	2,700	962	388.2	72.4	45.80
MEAN	18.0	1,619	1,075	2,041	617	1,797	760	87.1	32.1	12.5	2.34	1.53
MAX	250	6,480	4,840	19,400	4,960	10,700	5,380	150	53	40	4.1	2.6
MIN	0	4.4	375	360	259	271	155	54	13	4.3	1.1	.80
AC-FT	1,110	96,340	66,100	125,500	34,240	110,500	45,210	5,360	1,910	770	144	91
CAL YR 1973	TOTAL 233,230.13	MEAN 639	MAX 12,200	MIN 0	AC-FT 462,600							
WTR YR 1974	TOTAL 245,664.50	MEAN 673	MAX 19,400	MIN 0	AC-FT 487,300							

PEAK DISCHARGE (BASE, 8,200 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-11	0915	10.50	9,770	1-16	1045	17.37	32,000
11-16	0630	11.00	10,800	2-28	1745	11.76	12,500
11-30	2245	10.36	9,500	3-30	0130	14.84	21,600

NOTE.--No gage-height record Oct. 1 to Nov. 8.

RUSSIAN RIVER BASIN

11466500 LAGUNA DE SANTA ROSA NEAR GRATON, CALIF.

LOCATION.--Lat 38°27'10", long 122°50'03", in Molinos Grant, Sonoma County, on downstream side of left bank pier of highway bridge, 0.2 mi (0.3 km) downstream from Santa Rosa Creek, and 2 mi (3 km) northeast of Graton.

PERIOD OF RECORD.--February 1940 to September 1949 (contents only), October 1964 to current year in reports of Geological Survey. October 1949 to September 1964 available in files of district office.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Dec. 31, 1958, at site 75 ft (23 m) downstream at same datum.

EXTREMES.--Current year: Maximum elevation, 67.07 ft (20.443 m) Jan. 17.
Period of record: Maximum elevation, 73.3 ft (22.34 m) Dec. 23, 1964.

REMARKS.--The laguna is a natural water channel and overflow basin connecting Santa Rosa Creek, Mark West Creek, and other smaller creeks with Russian River. During floods directions of flow may be either to or from Russian River and the laguna acts as a natural regulator of floods on lower Russian River. Figures given herein represent elevations above 55.0 ft (16.76 m).

ELEVATION, IN FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		--	57.00	--	--	57.10	60.20					
2		--	55.30	--	--	57.00	57.30					
3		--	--	55.90	--	55.30	55.20					
4		--	--	56.10	--	--	--					
5		--	--	--	--	--	--					
6		--	--	--	--	--	--					
7		--	--	--	--	--	--					
8		--	--	--	--	--	--					
9		--	--	--	--	--	--					
10		--	--	--	--	--	--					
11		57.90	--	--	--	--	--					
12		57.90	--	--	--	--	--					
13		56.80	--	--	--	--	--					
14		55.50	--	57.40	--	--	--					
15		--	--	57.80	--	--	--					
16		57.30	--	64.70	--	--	--					
17		57.80	--	64.40	--	--	--					
18		56.10	--	60.00	--	--	--					
19		--	--	57.00	--	--	--					
20		--	--	55.10	--	--	--					
21		--	56.00	--	--	--	--					
22		--	55.60	--	--	--	--					
23		--	--	--	--	--	--					
24		--	--	--	--	--	--					
25		--	--	--	--	--	--					
26		--	--	--	--	--	--					
27		--	55.60	--	--	--	--					
28		--	--	--	55.20	55.70	--					
29		--	--	--	-----	59.00	--					
30		55.50	--	--	-----	63.30	--					
31		-----	--	--	-----	58.70	-----		-----			-----
MEAN		--	--	--	--	--	--					
MAX		--	--	--	--	--	--					
MIN		--	--	--	--	--	--					

LOCATION.--Lat 38°30'03", long 122°55'59", in NW¼NE¼ sec.35, T.8 N., R.10 W., Sonoma County, on left bank 0.6 mi (1.0 km) downstream from Hobson Creek, and 3.4 mi (5.5 km) east of Guerneville.

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1954, published as "at Guerneville."

EXTREMES.--Current year: Maximum discharge, 74,000 ft³/s (2,100 m³/s) Jan. 17 (gage height, 43.18 ft or 13.161 m, from outside high-water marks); minimum daily, 180 ft³/s (5.10 m³/s) July 27.
Period of record: Maximum discharge, 93,400 ft³/s (2,650 m³/s) Dec. 23, 1964 (gage height, 49.6 ft or 15.12 m, from floodmarks); maximum gage height, 49.7 ft (15.15 m) Dec. 23, 1955, from floodmarks; minimum daily discharge, 52 ft³/s (1.47 m³/s) May 30, 1964.

REMARKS.--Records good. Many diversions above station for irrigation of about 29,000 acres (117 km²). Flow also affected by diversion into basin (see REMARKS for East Fork Russian River stations), since November 1958 by storage in Lake Mendocino 77 mi (124 km) upstream (see sta 11461800) and by diversion at Wohler pumping plant beginning in May 1959. Records of chemical analyses, water temperatures, sediment discharge, and sediment and turbidity data for the current year are published in Part 2 of this report.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	188	335	37,900	5,410	3,710	34,200	34,500	1,240	424	196	184	271
2	204	310	19,100	4,500	2,870	28,500	31,300	1,210	413	191	184	273
3	206	290	9,690	5,010	2,340	16,900	18,300	1,180	404	187	191	278
4	212	275	7,980	7,420	2,070	12,800	12,500	1,180	382	182	196	268
5	385	295	7,270	6,210	1,900	10,700	9,790	1,200	393	187	201	278
6	412	1,240	6,420	4,870	1,760	9,140	7,970	1,190	396	191	201	286
7	370	1,830	4,410	4,380	1,640	7,170	7,060	1,160	379	196	204	292
8	345	2,750	3,280	3,900	1,560	5,510	4,910	1,130	369	199	206	300
9	348	3,730	2,830	3,480	1,480	4,120	4,090	1,100	361	204	204	297
10	333	16,800	2,500	3,110	1,410	3,430	3,730	1,080	361	281	209	286
11	335	28,800	2,750	2,830	1,440	9,500	3,070	1,040	312	338	212	312
12	338	35,400	3,050	3,720	2,540	15,100	2,670	845	302	302	220	323
13	335	20,000	4,880	6,040	3,070	9,710	2,480	746	319	278	220	307
14	335	18,400	4,860	10,500	2,830	6,760	2,630	639	323	265	222	297
15	330	13,000	3,800	38,400	2,020	5,200	2,480	563	316	253	225	307
16	330	33,200	3,200	45,800	1,550	4,190	2,300	534	302	246	232	323
17	320	24,400	3,490	61,600	1,530	3,490	2,090	506	305	243	236	338
18	320	22,400	4,590	43,400	1,400	3,060	1,930	543	305	227	251	348
19	315	11,300	5,190	32,000	8,120	2,680	1,870	600	305	214	253	338
20	325	7,220	5,060	22,100	6,540	2,330	1,750	607	305	212	248	331
21	343	5,940	10,200	17,600	4,050	2,090	1,650	593	289	212	246	336
22	442	4,570	15,700	11,800	3,730	1,910	1,580	566	273	206	243	346
23	1,200	4,170	9,150	9,250	2,850	1,780	1,520	490	263	194	248	351
24	870	3,480	6,800	7,980	2,370	1,660	1,510	576	251	182	248	353
25	640	3,040	5,530	6,290	2,080	1,760	1,480	560	243	182	251	353
26	530	2,670	4,890	4,330	1,900	1,950	1,480	550	234	182	256	353
27	485	2,320	9,130	3,340	1,810	4,280	1,470	531	206	180	258	358
28	465	2,120	9,290	2,880	10,400	14,700	1,390	521	206	182	258	358
29	450	1,970	8,370	2,550	-----	20,500	1,320	518	206	184	260	361
30	395	10,500	8,170	2,300	-----	58,000	1,280	458	196	187	260	361
31	360	-----	6,460	2,340	-----	42,000	-----	438	-----	187	265	-----
TOTAL	12,466	282,755	235,940	385,340	80,970	345,120	172,100	24,094	9,343	6,670	7,092	9,583
MFAN	402	9,425	7,611	12,430	2,892	11,130	5,737	777	311	215	229	319
MAX	1,200	35,400	37,900									

CAL YR 1973	TOTAL	1,519,321	MEAN	4,163	MAX	59,000	MIN	117	AC-FT	3,014,000
WTR YR 1974	TOTAL	1,571,473	MEAN	4,305	MAX	61,600	MIN	180	AC-FT	3,117,000

PEAK DISCHARGE (BASE, 23,000 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-11	0645	30.66	39,500	1-17	0400	43.18	74,000
11-16	1630	28.65	35,300	3-1	0500	30.47	39,000
12-1	0900	31.59	41,400	3-30	1600	40.25	61,900

NOTE.--No gage-height record Jan. 17, 18.

11467600 GARCIA RIVER NEAR POINT ARENA, CALIF.

LOCATION.--Lat 38°55'35", long 123°37'45", in SW¼SW¼ sec.3, T.12 N., R.16 W., Mendocino County, on left bank 0.9 mi (1.4 km) downstream from North Fork, and 3.5 mi (5.6 km) northeast of town of Point Arena.

DRAINAGE AREA.--98.5 mi² (255.1 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1951-56, and annual maximum water years 1952-56, August 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 55.31 ft (16.858 m) above mean sea level. July 17, 1951, to Jan. 31, 1956, crest-stage only, at site 15 ft (5 m) upstream at different datum.

AVERAGE DISCHARGE.--12 years, 362 ft³/s (10.25 m³/s), 262,300 acre-ft/yr (323 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 30,300 ft³/s (858 m³/s) Jan. 16 (gage height, 17.41 ft or 5.307 m), from rating curve extended as explained below; minimum daily, 12 ft³/s (0.34 m³/s) Sept. 26-30.

Period of record: Maximum discharge, 30,300 ft³/s (858 m³/s) Jan. 16, 1974 (gage height, 17.41 ft or 5.307 m), from rating curve extended above 9,600 ft³/s (272 m³/s) on basis of slope-area measurements at gage heights 15.11 ft (4.606 m) and 16.63 ft (5.069 m); minimum daily, 8.2 ft³/s (0.23 m³/s) Sept. 24, 1972.

REMARKS.--Records good. No regulation or diversion above station. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	16	4,790	696	570	4,770	7,900	134	56	34	23	17
2	13	14	2,250	569	442	2,950	3,820	127	55	33	22	17
3	13	13	1,450	621	386	1,640	1,970	122	54	32	22	17
4	13	13	1,060	642	346	1,120	1,350	116	53	32	21	17
5	13	570	851	602	312	868	1,080	112	52	31	23	16
6	27	610	724	549	285	732	872	109	51	30	26	16
7	109	1,140	655	503	264	711	729	104	51	31	25	16
8	40	1,260	590	463	248	598	644	101	50	69	23	15
9	25	2,940	534	418	231	501	732	97	49	75	22	15
10	20	4,330	493	382	219	469	624	93	48	47	21	15
11	17	8,120	623	363	206	2,910	558	91	47	39	21	15
12	16	4,780	578	549	239	2,180	505	89	46	37	20	14
13	15	2,700	1,460	1,180	227	1,530	451	86	46	35	20	14
14	14	2,260	1,000	3,470	198	1,160	399	83	45	33	20	14
15	14	1,590	778	9,240	186	919	363	81	44	32	20	14
16	14	5,410	664	21,300	240	754	332	79	44	31	19	14
17	13	2,870	727	5,480	214	631	308	80	43	30	19	14
18	13	2,750	659	3,720	298	541	292	79	44	29	19	13
19	13	1,730	599	3,600	1,990	475	270	76	44	29	19	13
20	16	1,310	580	2,350	934	425	242	72	44	28	19	13
21	71	1,030	3,530	1,560	768	389	221	70	43	28	19	13
22	595	913	1,970	1,140	642	364	205	69	42	27	18	13
23	449	795	1,280	911	521	344	193	68	41	26	18	13
24	702	710	930	762	439	325	184	66	40	25	18	13
25	81	616	756	659	371	348	183	64	39	25	18	13
26	50	539	729	576	336	346	209	63	38	25	17	12
27	35	469	1,030	498	301	1,350	173	61	37	24	17	12
28	27	424	1,190	448	4,870	2,040	161	60	37	24	17	12
29	22	671	1,260	385	-----	8,850	149	59	36	24	17	12
30	18	5,820	1,060	325	-----	10,100	140	58	35	23	17	12
31	17	-----	838	483	-----	3,420	-----	57	-----	23	17	-----
TOTAL	1,999	56,413	35,644	64,444	16,283	53,760	25,259	2,626	1,354	1,011	617	424
MEAN	64.5	1,880	1,150	2,079	582	1,734	842	84.7	45.1	32.6	19.9	14.1
MAX	595	8,120	4,790	21,300	4,870	10,100	7,900	134	56	75	26	17
MIN	13	13	493	325	186	325	140	57	35	23	17	12
AC-FT	3,970	111,900	70,700	127,800	32,300	106,600	50,100	5,210	2,690	2,010	1,220	841
CAL YR 1973	TOTAL 200,139 MEAN 548 MAX 10,900 MIN 11 AC-FT 397,000											
WTR YR 1974	TOTAL 259,834 MEAN 712 MAX 21,300 MIN 12 AC-FT 515,400											

PEAK DISCHARGE (BASE, 5,000 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-11	1400	11.39	10,100	1-16	0715	17.41	30,300
11-16	0545	10.73	8,450	2-28	1600	11.66	10,800
11-30	1645	10.91	8,880	3-30	0100	14.93	20,900
12-21	0730	9.70	6,170	4-1	1230	11.42	10,200

11468000 NAVARRO RIVER NEAR NAVARRO, CALIF.

LOCATION.--Lat 39°10'20", long 123°40'06", in SE¼ sec.7, T.15 N., R.16 W., Mendocino County, on right bank 2.9 mi (4.7 km) downstream from North Fork, 5.2 mi (8.4 km) upstream from mouth, and 6.8 mi (10.9 km) west of Navarro.

DRAINAGE AREA.--303 mi² (785 km²).

PERIOD OF RECORD.--October 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4.79 ft (1.460 m) above mean sea level. Prior to Oct. 1, 1969, at site 0.2 mi (0.3 km) upstream at datum 1.86 ft (0.567 m) higher.

AVERAGE DISCHARGE.--24 years, 545 ft³/s (15.43 m³/s), 394,900 acre-ft/yr (487 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 61,000 ft³/s (1,730 m³/s) Jan. 16 (gage height, 39.13 ft or 11.927 m), from rating curve extended above 17,000 ft³/s (481 m³/s) as explained below; minimum daily, 10 ft³/s (0.28 m³/s) Sept. 21, 22.

Period of record: Maximum discharge, 64,500 ft³/s (1,830 m³/s) Dec. 22, 1955 (gage height, 40.60 ft or 12.375 m, site and datum then in use), from rating curve extended above 19,000 ft³/s (538 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 3.8 ft³/s (0.11 m³/s) Aug. 15, 16, 1972.

Flood of December 1937 reached a stage of 38.2 ft (11.64 m), from floodmarks.

REMARKS.--Records good except those for period of no gage-height record, which are fair. No regulation or diversion above station. Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1445: 1954(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	17	8,370	1,290	947	7,830	10,200	182	82	40	27	13
2	14	22	4,040	1,010	734	5,660	6,080	174	82	39	27	13
3	14	24	2,490	1,130	655	3,670	3,690	169	75	37	26	13
4	14	30	1,720	1,270	593	2,480	2,450	164	77	36	26	13
5	14	31	1,270	1,160	535	1,870	1,870	159	74	36	27	13
6	16	549	1,000	1,100	475	1,490	1,490	154	72	36	29	13
7	25	456	828	1,050	437	1,400	1,170	149	69	36	28	13
8	24	983	716	974	402	1,290	992	144	72	54	27	13
9	18	580	631	883	366	1,050	1,370	137	70	75	25	13
10	17	4,700	569	793	345	952	1,120	129	69	78	25	13
11	16	8,000	719	727	319	2,680	946	139	66	82	24	13
12	14	5,000	760	947	381	2,650	845	179	66	78	23	12
13	14	3,500	1,720	1,400	443	2,180	748	147	63	54	22	11
14	13	2,750	1,410	3,950	339	1,690	654	154	63	42	21	11
15	14	2,080	1,130	12,800	303	1,380	565	142	61	39	20	11
16	15	4,900	965	45,100	393	1,150	505	120	61	36	20	11
17	14	3,950	934	11,500	390	974	453	111	61	36	19	11
18	14	3,150	843	5,620	498	843	435	122	61	37	18	11
19	13	2,350	730	4,940	5,480	745	400	134	63	35	18	11
20	13	1,850	662	3,660	2,550	666	345	115	57	34	18	11
21	16	1,650	3,760	2,620	1,780	610	313	100	54	36	17	10
22	73	1,490	3,150	1,980	1,430	562	284	91	51	39	17	10
23	328	1,280	2,010	1,590	1,110	528	264	91	52	34	16	11
24	141	1,100	1,470	1,300	965	495	253	87	51	32	16	11
25	75	940	1,190	1,090	839	518	247	87	51	31	15	11
26	41	830	1,120	917	778	505	260	85	49	30	15	11
27	28	700	2,350	786	730	712	234	87	46	30	15	11
28	23	560	2,920	694	5,250	2,070	212	87	48	29	14	11
29	20	576	2,600	621	-----	10,700	201	83	46	29	14	11
30	18	6,870	2,210	573	-----	20,900	190	83	42	28	14	11
31	17	-----	1,670	691	-----	5,670	-----	83	-----	28	13	-----
TOTAL	1,090	60,978	55,957	114,166	29,467	85,920	38,786	3,888	1,854	1,286	636	351
MEAN	35.2	2,033	1,805	3,683	1,052	2,772	1,293	125	61.8	41.5	20.5	11.7
MAX	328	8,000	8,370	45,100	5,480	20,900	10,200	182	82	82	29	13
MIN	13	17	569	573	303	495	190	83	42	28	13	10
AC-FT	2,160	120,900	111,000	226,400	58,450	170,400	76,930	7,710	3,680	2,550	1,260	696

CAL YR 1973 TOTAL 313,349.5 MEAN 858 MAX 14,000 MIN 6.5 AC-FT 621,500

WTR YR 1974 TOTAL 394,379.0 MEAN 1,080 MAX 45,100 MIN 10 AC-FT 782,300

DATE	TIME	PEAK DISCHARGE (BASE, 7,000 FT ³ /S)	DATE	TIME	PEAK DISCHARGE (BASE, 7,000 FT ³ /S)
11-11	unknown	15.80 8,920	2-28	1900	20.05 13,400
11-30	2030	20.00 13,300	3-30	0430	30.95 35,500
1-16	1230	39.13 61,000	4-1	1545	19.76 13,000
2-19	0630	15.00 8,220			

NOTE.--No gage-height record July 24 to Sept. 5.

11468500 NOYO RIVER NEAR FORT BRAGG, CALIF.

LOCATION.--Lat 39°25'42", long 123°44'12", in NE¼ sec.15, T.18 N., R.17 W., Mendocino County, on right bank 0.7 mi (1.1 km) downstream from South Fork, and 3.5 mi (5.6 km) east of Fort Bragg.

DRAINAGE AREA.--106 mi² (275 km²).

PERIOD OF RECORD.--August 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 11.73 ft (3.575 m) above mean sea level.

AVERAGE DISCHARGE.--23 years, 229 ft³/s (6.485 m³/s), 165,900 acre-ft/yr (205 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 26,600 ft³/s (753 m³/s) Mar. 29 (gage height, 27.14 ft or 8.272 m), from rating curve extended as explained below; minimum daily, 3.7 ft³/s (0.10 m³/s) Sept. 23.
Period of record: Maximum discharge, 26,600 ft³/s (753 m³/s) Mar. 29, 1974 (gage height, 27.14 ft or 8.272 m), from rating curve extended above 4,500 ft³/s (127 m³/s) on basis of slope-conveyance study; minimum daily, 0.80 ft³/s (0.023 m³/s) Sept. 12, 1968.

REMARKS.--Records fair. No regulation or diversion above station. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	20	1,880	590	438	2,330	7,480	156	48	24	15	9.6
2	7.2	18	1,240	450	398	1,990	3,460	149	47	23	15	9.5
3	7.2	17	803	406	363	1,770	1,800	142	46	23	15	9.5
4	6.8	16	617	393	327	1,140	1,230	127	44	22	14	10
5	6.8	205	503	376	291	759	969	125	43	22	14	7.8
6	17	285	419	363	228	595	766	120	42	22	16	7.2
7	60	347	378	349	166	647	643	115	41	22	15	7.1
8	33	661	353	333	143	558	587	108	40	21	14	6.7
9	21	1,320	320	307	120	469	670	102	39	53	13	6.3
10	16	1,610	293	278	104	410	627	97	38	34	13	6.0
11	13	2,630	355	256	91	730	566	93	36	28	12	5.7
12	12	1,750	380	258	110	821	519	91	35	25	12	5.4
13	11	1,290	632	267	100	732	476	87	35	24	12	5.4
14	10	1,050	710	820	79	601	436	84	35	23	12	4.9
15	9.9	740	638	5,540	68	480	399	82	34	22	12	4.7
16	9.4	1,680	542	20,100	110	394	365	78	33	21	12	4.5
17	8.9	1,330	506	4,820	99	330	330	80	33	21	12	4.4
18	8.5	1,150	443	2,510	328	282	323	80	34	21	12	4.3
19	8.9	812	395	2,590	3,070	245	295	74	35	21	11	4.3
20	9.4	667	358	1,770	1,290	213	270	70	37	20	11	4.1
21	19	616	770	1,120	813	184	251	68	34	19	11	4.1
22	242	565	761	796	587	164	235	66	32	19	10	4.0
23	248	481	605	601	452	148	225	64	31	18	10	3.7
24	133	426	500	488	376	131	215	61	30	18	9.8	4.0
25	73	366	428	425	318	146	212	59	28	17	9.3	6.6
26	50	324	401	363	290	128	229	58	28	17	9.3	7.6
27	45	287	575	320	258	279	204	56	27	16	9.2	8.1
28	32	262	788	287	1,420	839	186	54	26	15	9.1	9.4
29	26	355	1,170	249	-----	11,000	174	52	26	15	9.0	9.6
30	23	1,210	1,120	225	-----	11,600	163	50	25	15	9.0	9.8
31	21	-----	799	324	-----	3,210	-----	49	-----	15	9.3	-----
TOTAL	1,195.6	22,490	19,682	47,974	12,437	43,325	24,305	2,697	1,062	706	367.0	194.3
MFAN	38.6	750	635	1,548	444	1,398	810	87.0	35.4	22.8	11.8	6.48
MAX	248	2,630	1,880	20,100	3,070	11,600	7,480	156	48	53	16	10
MIN	6.8	16	293	225	68	128	163	49	25	15	9.0	3.7
AC-FT	2,370	44,610	39,040	95,160	24,670	85,940	48,210	5,350	2,110	1,400	728	385

CAL YR 1973 TOTAL 111,556.4 MEAN 306 MAX 4,400 MIN 4.9 AC-FT 221,300
WTR YR 1974 TOTAL 176,434.9 MEAN 483 MAX 20,100 MIN 3.7 AC-FT 350,000

PEAK DISCHARGE (BASE, 2,400 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-11	1130	12.68	3,610	2-28	2100	11.13	3,080
1-16	0915	27.10	26,400	3-29	2200	27.14	26,600
1-19	0445	10.70	2,820	4-1	1330	18.73	9,410
2-19	0600	13.40	4,610				

11468990 HONEYDEW CREEK NEAR HONEYDEW, CALIF.

LOCATION.--Lat 40°13'23", long 124°06'35", in NE¼SW¼ sec.7, T.3 S., R.1 E., Humboldt County, on left bank just upstream from highway bridge, 0.1 mi (0.2 km) downstream from small right-bank tributary, 1.4 mi (2.3 km) upstream from mouth, and 1.6 mi (2.6 km) south of town of Honeydew.

DRAINAGE AREA.--14.9 mi² (38.6 km²).

PERIOD OF RECORD.--January 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 400 ft (122 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 4,600 ft³/s (130 m³/s) Jan. 16 (gage height, unknown), from rating curve extended above 1,400 ft³/s (39.6 m³/s); minimum daily, 4.6 ft³/s (0.13 m³/s) Sept. 19-27.
Period of record: Maximum discharge, 4,600 ft³/s (130 m³/s) Jan. 16, 1974 (gage height, unknown), from rating curve extended above 1,400 ft³/s (39.6 m³/s); minimum daily, 4.6 ft³/s (0.13 m³/s) Sept. 19-27, 1974.

REMARKS.--Records fair. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5	37	1,490	133	487	1,150	1,830	44	18	10	8.1	5.5
2	9.0	34	704	102	305	670	810	42	17	10	8.1	5.4
3	8.8	32	344	90	215	434	513	41	17	12	8.1	5.3
4	8.5	180	229	75	204	333	338	39	16	14	7.8	5.2
5	8.5	1,570	173	65	165	257	350	38	16	13	8.4	5.3
6	22	1,130	148	59	140	234	247	37	16	14	8.7	5.1
7	21	496	729	53	127	207	220	37	15	15	8.1	5.0
8	15	1,290	367	48	117	164	220	35	15	62	7.8	4.9
9	14	2,830	211	44	106	132	244	34	15	24	7.5	5.0
10	12	2,120	145	40	98	209	193	33	14	15	7.5	5.0
11	11	2,520	169	38	90	704	175	31	14	13	6.9	5.0
12	11	1,140	388	110	115	997	157	31	14	12	6.7	4.9
13	10	935	508	300	80	496	141	29	14	11	6.4	4.8
14	9.7	666	283	850	69	307	128	28	14	11	6.4	4.9
15	9.1	1,230	186	2,000	71	214	116	28	14	11	6.4	4.9
16	8.9	1,430	516	3,500	218	157	107	27	13	10	6.4	4.9
17	8.8	889	1,150	2,100	196	119	98	27	14	10	6.4	4.9
18	8.5	690	492	1,260	542	92	91	26	14	10	6.2	4.8
19	8.5	306	306	808	644	73	83	25	18	10	5.9	4.6
20	27	409	439	453	486	60	77	25	14	9.6	5.8	4.6
21	294	242	1,060	310	567	52	72	24	13	9.3	5.8	4.6
22	492	204	480	250	396	45	68	23	13	9.0	5.7	4.6
23	619	124	313	200	307	38	64	23	12	9.0	5.7	4.6
24	197	88	221	175	244	34	60	22	12	9.0	5.7	4.6
25	118	65	160	155	210	49	63	21	12	9.0	5.5	4.6
26	84	46	200	140	264	87	68	20	12	8.7	5.5	4.6
27	66	44	274	130	258	547	56	19	11	8.4	5.5	4.6
28	55	844	277	123	1,240	363	52	19	11	8.1	5.4	4.7
29	48	1,630	428	118	-----	2,210	50	18	11	8.1	5.4	4.7
30	43	2,500	274	113	-----	2,200	48	18	11	8.1	5.5	4.8
31	39	-----	186	604	-----	1,230	-----	18	-----	8.1	5.5	-----
TOTAL	2,295.8	25,721	12,850	14,446	7,961	13,864	6,739	882	420	391.4	204.8	146.4
MEAN	74.1	857	415	466	284	447	225	28.5	14.0	12.6	6.61	4.88
MAX	619	2,830	1,490	3,500	1,240	2,210	1,830	44	18	62	8.7	5.5
MIN	8.5	32	145	38	69	34	48	18	11	8.1	5.4	4.6
AC-FT	4,550	51,020	25,490	28,650	15,790	27,500	13,370	1,750	833	776	406	290
CAL YR 1973	TOTAL 72,708.4	MEAN 199	MAX 2,830	MIN 5.2	AC-FT 144,200							
WTR YR 1974	TOTAL 85,921.4	MEAN 235	MAX 3,500	MIN 4.6	AC-FT 170,400							

PEAK DISCHARGE (BASE, 2,000 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-5	0730	11.21	3,550	1-16	unknown	--	4,600
11-11	0930	11.86	3,910	3-1	0815	11.73	2,020
11-15	2045	11.32	3,260	3-29	2030	13.63	3,800
11-30	1645	12.21	4,330	4-1	0700	12.36	2,350
12-17	0300	9.51	2,050				

NOTE.--No gage-height record Jan. 2-17.

11469000 MATTOLE RIVER NEAR PETROLIA, CALIF.

LOCATION.--Lat 40°18'42", long 124°15'48", in NW¼ sec.11, T.2 S., R.2 W., Humboldt County, on right bank 0.2 mi (0.3 km) upstream from Clear Creek, 1.5 mi (2.4 km) southeast of Petrolia, and 1.7 mi (2.7 km) upstream from North Fork.

DRAINAGE AREA.--240 mi² (622 km²).

PERIOD OF RECORD.--October 1911 to December 1913, October 1950 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Altitude of gage is 40 ft (12 m), from topographic map. November 1911 to December 1913, nonrecording gages at several sites upstream within 0.3 mi (0.5 km) of present site at various datums. Dec. 11, 1950, to July 14, 1955, at site 0.3 mi (0.5 km) upstream at datum 7.48 ft (2.280 m) higher. July 15, 1955, to Oct. 26, 1967, at site 0.4 mi (0.6 km) downstream at different datum.

AVERAGE DISCHARGE.--26 years, 1,398 ft³/s (39.59 m³/s) 1,013,000 acre-ft/yr (1.25 km³/yr).

EXTREMES.--Current year: Maximum discharge, 62,100 ft³/s (1,760 m³/s) Jan. 16 (gage height, 23.89 ft or 7.282 m); minimum daily, 26 ft³/s (0.74 m³/s) Sept. 30.

Period of record: Maximum discharge, 90,400 ft³/s (2,560 m³/s) Dec. 22, 1955 (gage height, 29.60 ft or 9.022 m, site and datum then in use), from rating curve extended above 24,000 ft³/s (680 m³/s) on basis of slope-area measurement of maximum flow; minimum observed, 20 ft³/s (0.57 m³/s) Sept. 1, 2, 15-30, Oct. 27-31, 1913, Sept. 14-18, 25, Oct. 10-16, 1970.

REMARKS.--Records good. Diversions for irrigation of about 350 acres (1.42 km²) above station. Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1285: 1912-13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	795	16,100	2,190	2,500	8,490	17,900	445	169	99	56	35
2	69	363	7,760	1,610	2,010	5,740	9,770	425	166	94	55	35
3	59	332	4,780	1,640	1,740	4,310	5,550	405	160	97	54	34
4	55	439	3,230	1,260	1,500	3,210	3,650	390	157	97	51	33
5	54	8,400	2,250	1,070	1,360	2,710	3,160	373	154	97	54	32
6	61	7,940	1,810	974	1,250	2,500	2,550	362	152	78	56	32
7	217	5,770	3,420	837	1,150	2,530	2,060	350	143	85	56	33
8	221	9,190	3,410	746	1,050	2,180	1,880	337	143	115	53	33
9	174	19,100	2,390	667	963	2,010	2,240	324	140	223	51	32
10	138	19,400	1,890	596	894	1,930	1,910	315	138	152	49	32
11	112	29,500	2,290	575	818	3,170	1,710	300	132	120	47	31
12	98	17,100	2,330	2,990	928	4,500	1,540	290	130	104	46	31
13	86	9,180	4,870	7,010	894	3,560	1,380	285	130	99	45	31
14	77	7,090	3,390	20,100	757	2,980	1,220	269	130	94	44	30
15	71	6,740	2,580	42,700	713	2,510	1,100	269	122	88	42	30
16	61	11,600	2,730	51,100	1,270	2,200	1,010	261	122	85	41	30
17	59	6,570	7,810	15,100	999	1,980	929	261	125	83	39	30
18	57	6,380	5,500	8,220	1,720	1,810	879	261	132	80	37	30
19	55	3,700	3,630	6,300	5,980	1,650	806	245	143	80	36	30
20	73	3,130	3,680	4,230	3,080	1,540	740	219	198	75	35	30
21	835	2,550	11,300	3,110	3,110	1,410	692	230	146	72	35	30
22	2,940	2,210	7,410	2,460	2,640	1,320	654	223	127	71	36	28
23	5,070	1,690	4,870	2,100	2,270	1,240	632	219	120	67	36	28
24	1,870	1,310	3,520	1,940	2,010	1,130	596	212	110	71	35	28
25	1,110	946	2,620	1,710	1,860	1,220	568	209	108	66	34	28
26	802	764	2,140	1,490	1,920	1,220	603	200	106	64	33	28
27	642	691	3,080	1,350	1,740	2,530	541	195	104	58	33	28
28	568	2,370	3,880	1,250	8,520	3,670	508	188	104	59	32	28
29	505	6,910	5,290	1,150	-----	18,400	485	182	104	59	33	27
30	451	23,100	4,340	1,050	-----	31,100	465	179	101	58	34	26
31	411	-----	2,980	2,040	-----	10,100	-----	172	-----	57	34	-----
TOTAL	17,076	214,760	137,280	189,565	55,646	134,850	67,728	8,595	4,016	2,747	1,322	913
MEAN	551	7,159	4,428	6,115	1,987	4,350	2,258	277	134	88.6	42.6	30.4
MAX	5,070	29,500	16,100	51,100	8,520	31,100	17,900	445	198	223	56	35
MIN	54	332	1,810	575	713	1,130	465	172	101	57	32	26
AC-FT	33,870	426,000	272,300	376,000	110,400	267,500	134,300	17,050	7,970	5,450	2,620	1,810
CAL YR 1973	TOTAL	706,478	MEAN	1,936	MAX	29,500	MIN	21	AC-FT	1,401,000		
WTR YR 1974	TOTAL	834,498	MEAN	2,286	MAX	51,100	MIN	26	AC-FT	1,655,000		

PEAK DISCHARGE (BASE, 15,000 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-11	1215	18.27	36,200	1-16	1145	23.89	62,100
11-16	0015	13.66	19,000	3-30	0100	22.77	56,200
11-30	0945	17.92	34,600	4-1	1415	14.99	22,600

11470000 LAKE PILLSBURY NEAR POTTER VALLEY, CALIF.

LOCATION.--Lat 39°24'30", long 122°57'30", on line between secs.14 and 23, T.18 N., R.10 W., Lake County, Mendocino National Forest, at Scott Dam near right bank of Eel River, 0.3 mi (0.5 km) downstream from Rice Fork, and 10.2 mi (16.4 km) northeast of town of Potter Valley.

DRAINAGE AREA.--289 mi² (749 km²).

PERIOD OF RECORD.--October 1922 to September 1928 (daily gage heights only), October 1928 to current year. Monthend contents only for some periods, published in WSP 1315-B. Prior to October 1953, published as "at Hullville."

GAGE.--Water-stage recorder and nonrecording gage. Datum of gage is 81.7 ft (24.90 m) below mean sea level (river-profile survey). Prior to Jan. 26, 1950, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum contents, 87,200 acre-ft (108 hm³) May 13 (gage height, 1,910.20 ft or 582.229 m); minimum contents, 34,100 acre-ft (42.0 hm³) Oct. 19 (gage height, 1,879.62 ft or 572.908 m). Period of record: Maximum contents, 95,600 acre-ft (118 hm³) May 13, 16, 1925 (gage height, 1,910.8 ft or 582.41 m); maximum gage height, 1,911.84 ft (582.729 m) Dec. 22, 1964, from floodmarks; minimum contents, 10 acre-ft (12,300 m³) Dec. 9, 10, 1931 (gage height, 1,822.5 ft or 555.50 m).

REMARKS.--Reservoir is formed by concrete overflow type dam; storage began in December 1921. Usable capacity, 86,400 acre-ft (107 hm³) between gage heights 1,822.4 ft (555.47 m), sill of outlet gate and 1,910.0 ft (582.17 m), top of spillway gates; dead storage, 397 acre-ft (490,000 m³); spillway at gage height 1,900.0 ft (579.12 m). Water is released down Eel River to Van Arsdale Reservoir, from which it is diverted through tunnel to Potter Valley powerhouse; part is then used for irrigation and remainder flows into East Fork Russian River. Records given herein represent total contents.

COOPERATION.--Record of contents furnished by Pacific Gas and Electric Co. in connection with a Federal Power Commission project.

CAPACITY TABLE (GAGE HEIGHT, IN FEET, AND CONTENTS, IN ACRE-FEET)

1,822.4	397	1,840	3,990	1,865	19,100	1,890	48,400
1,824	534	1,845	6,080	1,870	23,500	1,895	56,700
1,827	864	1,850	8,690	1,875	28,700	1,900	65,800
1,830	1,310	1,855	11,800	1,880	34,500	1,905	75,800
1,835	2,410	1,860	15,200	1,885	41,100	1,910	86,800

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39,890	36,542	72,840	68,086	67,344	72,964	73,520	85,967	84,547	74,017	70,541	64,619
2	39,296	36,542	70,279	67,656	67,111	70,481	71,228	85,877	84,368	73,727	70,360	64,430
3	38,694	36,529	69,209	67,441	66,956	69,269	70,018	85,877	84,077	73,644	70,098	64,241
4	38,099	36,708	68,637	67,344	66,781	68,597	70,179	85,854	83,854	73,520	69,878	64,053
5	37,510	38,747	67,930	67,208	66,724	68,322	70,945	85,809	83,564	73,313	69,667	63,659
6	37,043	39,876	67,656	67,053	66,685	68,047	72,615	85,763	83,230	73,128	69,567	63,154
7	36,490	42,866	67,695	66,917	66,666	67,988	75,100	85,809	82,875	73,005	69,448	62,541
8	36,096	44,921	67,461	66,859	66,627	67,734	77,144	86,103	82,631	73,170	69,309	61,547
9	35,779	50,443	67,266	66,801	66,569	67,598	79,611	86,330	82,145	73,190	69,150	61,309
10	35,452	61,877	67,227	66,685	66,530	67,617	81,463	86,489	81,815	73,128	68,972	60,708
11	35,115	72,574	67,364	66,762	66,530	69,131	82,609	86,967	82,035	73,108	68,774	60,093
12	34,792	71,026	67,422	67,910	66,530	69,289	82,831	86,967	80,938	73,025	68,597	59,500
13	34,444	69,837	68,341	69,071	66,801	68,774	82,764	86,557	80,501	72,984	68,381	58,893
14	34,164	69,012	67,871	73,748	67,637	68,381	82,587	86,466	79,200	72,820	68,185	58,273
15	34,127	69,368	67,617	75,939	67,617	68,185	82,476	86,330	79,611	72,697	67,988	57,639
16	34,127	71,431	67,461	78,812	66,859	67,988	82,521	86,262	79,265	72,635	67,793	56,994
17	34,103	70,440	67,969	72,410	66,492	67,890	82,609	86,217	78,942	72,512	67,598	56,352
18	34,091	69,428	67,656	72,615	67,208	67,637	83,119	86,262	80,763	72,410	67,402	55,630
19	34,066	68,656	67,441	71,451	68,774	67,598	83,876	86,262	78,276	72,410	67,208	54,931
20	34,091	68,479	67,753	69,998	67,851	67,500	84,569	86,262	78,040	72,185	67,014	54,238
21	34,091	68,047	69,998	69,031	67,714	67,325	85,109	86,194	77,741	72,042	66,820	53,568
22	34,549	67,851	68,774	68,459	67,402	67,247	85,583	86,126	77,421	71,899	66,627	52,952
23	35,729	68,361	68,204	68,067	67,111	67,150	85,945	86,035	77,038	71,817	66,414	52,425
24	36,083	70,119	67,949	67,890	67,053	67,092	86,035	85,945	76,593	71,675	66,241	51,883
25	36,299	71,512	67,753	67,656	66,995	67,266	86,171	86,058	76,340	71,553	66,049	51,362
26	36,439	72,471	68,558	67,461	66,995	67,793	85,967	85,899	76,065	71,350	65,762	50,829
27	36,542	72,492	68,952	67,344	66,956	71,858	85,831	85,583	75,581	71,269	65,570	50,315
28	36,593	72,594	68,913	67,208	72,410	74,162	85,877	85,447	75,246	71,066	65,379	49,804
29	36,708	72,656	69,757	67,111	-----	83,631	85,922	85,447	74,932	70,945	65,189	49,297
30	36,721	74,079	68,972	67,053	-----	74,995	85,922	85,447	74,515	70,783	64,998	48,794
31	36,696	-----	68,558	67,402	-----	72,144	-----	85,470	-----	70,602	64,809	-----
MAX	39,890	74,079	72,840	78,812	72,410	83,631	86,171	86,967	84,547	74,017	70,541	64,619
MIN	34,066	36,529	67,227	66,685	66,492	67,092	70,018	85,447	74,515	70,602	64,809	48,794
(a)	1,881.72	1,904.16	1,901.44	1,900.85	1,903.35	1,903.22	1,909.62	1,909.42	1,904.37	1,902.46	1,899.50	1,890.24
(b)	-3,790	+37,400	-5,520	-1,160	+5,010	-266	+13,800	-452	-11,000	-3,910	-5,790	-16,000

CAL YR 1973 b +1,830

WTR YR 1974 b +8,300

a Gage height, in feet, at end of month.

b Change in contents, in acre-feet, rounded to Geological Survey standards.

11470500 EEL RIVER BELOW SCOTT DAM, NEAR POTTER VALLEY, CALIF.

LOCATION.--Lat 39°24'29", long 122°58'13", in SE¼ sec.15, T.18 N., R.10 W., Lake County, Mendocino National Forest, on left bank 0.4 mi (0.6 km) upstream from Soda Creek, 0.7 mi (1.1 km) downstream from Scott Dam, and 9.7 mi (15.6 km) northeast of town of Potter Valley.

DRAINAGE AREA.--290 mi² (751 km²).

PERIOD OF RECORD.--October 1922 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1929, published as South Eel River at Hullville, and October 1929 to September 1953 as "at Hullville."

GAGE.--Water-stage recorder. Altitude of gage is 1,740 ft (530 m), from topographic map. Prior to Dec. 15, 1930, at datum 3.00 ft (0.914 m) higher.

AVERAGE DISCHARGE.--52 years, 556 ft³/s (15.75 m³/s), 402,800 acre-ft/yr (497 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 33,400 ft³/s (946 m³/s) Jan. 16 (gage height, 19.26 ft or 5.870 m), from rating curve extended as explained below; minimum daily, 20 ft³/s (0.57 m³/s) Oct. 16-22, 24-29.
Period of record: Maximum discharge, 56,300 ft³/s (1,590 m³/s) Dec. 22, 1964 (gage height, 24.24 ft or 7.388 m, from floodmarks), from rating curve extended above 9,400 ft³/s (266 m³/s) on basis of computed flow over Scott Dam at gage heights 18.50 ft (5.639 m) and 21.85 ft (6.660 m); minimum daily, 0.1 ft³/s (0.003 m³/s) Sept. 8, 1924.

REMARKS.--Flow regulated by Lake Pillsbury 0.7 mi (1.1 km) upstream (see sta 11470000). No diversion above station. Records of water temperatures for the current year are published in Part 2 of this report.

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

REVISIONS (WATER YEARS).--WSP 1315-B: 1923(N), 1938(N). WSP 1395: Drainage area. WRD Calif. 1967: 1963-64.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	337	40	9,010	1,810	1,200	6,460	7,840	493	317	280	105	102
2	335	40	4,430	1,460	1,020	5,200	6,150	494	322	191	114	102
3	336	40	2,800	1,300	889	3,340	4,280	503	322	114	107	102
4	338	40	2,040	1,170	811	2,390	2,700	506	322	114	99	102
5	337	44	1,760	1,060	743	1,930	2,020	502	320	114	99	153
6	337	42	1,510	964	687	1,660	958	526	320	114	98	266
7	336	46	1,400	870	649	1,570	288	480	340	115	105	321
8	274	44	1,390	814	613	1,440	229	333	342	116	108	327
9	186	49	1,230	753	583	1,300	234	302	320	115	108	331
10	196	57	1,090	697	556	1,200	233	333	328	114	107	331
11	196	3,790	1,110	676	538	1,940	526	358	337	107	107	330
12	195	8,320	1,150	1,060	543	2,860	885	358	332	101	107	329
13	195	4,400	1,990	2,360	350	2,540	960	359	327	101	107	329
14	195	3,270	1,930	4,350	33	2,010	957	359	327	101	106	332
15	40	2,680	1,530	11,500	431	1,720	868	358	325	101	106	335
16	20	6,350	1,320	24,800	957	1,520	778	327	302	101	105	334
17	20	4,740	1,580	11,200	642	1,390	673	301	266	101	105	291
18	20	3,870	1,620	6,130	611	1,310	452	301	265	99	105	331
19	20	2,450	1,370	6,630	2,540	1,210	328	301	265	99	105	305
20	20	1,800	1,260	4,550	1,800	1,120	329	300	255	98	105	303
21	20	1,520	3,300	3,270	1,350	1,040	330	295	250	98	104	303
22	20	1,230	3,420	2,490	1,180	977	330	295	250	97	104	301
23	21	677	2,310	2,000	996	918	429	299	248	97	104	301
24	20	45	1,800	1,660	891	867	543	307	246	97	104	299
25	20	49	1,570	1,460	820	928	544	312	246	97	103	299
26	20	205	1,520	1,310	804	751	720	312	246	96	103	299
27	20	698	2,370	1,170	804	353	646	312	246	96	103	299
28	20	812	2,610	1,060	2,630	1,400	487	312	253	96	103	299
29	20	1,610	3,460	979	-----	8,160	495	312	271	95	103	300
30	27	6,660	3,100	904	-----	16,800	500	311	280	95	103	300
31	40	-----	2,310	964	-----	7,310	-----	311	-----	95	103	-----
TOTAL	4,181	55,518	69,290	101,421	25,671	83,614	36,712	11,172	8,790	3,455	3,245	8,356
MEAN	135	1,851	2,235	3,272	917	2,697	1,224	360	293	111	105	279
MAX	338	8,320	9,010	24,800	2,630	16,800	7,840	526	342	280	114	335
MIN	20	40	1,090	676	33	353	229	295	246	95	98	102
AC-FT	8,290	110,100	137,400	201,200	50,920	165,800	72,820	22,160	17,430	6,850	6,440	16,570

CAL YR 1973 TOTAL 348,118 MEAN 954 MAX 9,810 MIN 20 AC-FT 690,500
WTR YR 1974 TOTAL 411,425 MEAN 1,127 MAX 24,800 MIN 20 AC-FT 816,100

11471000 POTTER VALLEY POWERHOUSE TAILRACE NEAR POTTER VALLEY, CALIF.

LOCATION.--Lat 39°21'42", long 123°07'38", in SW¼NW¼ sec.6, T.17 N., R.11 W., Mendocino County, on right bank 100 ft (30 m) downstream from powerhouse of Pacific Gas and Electric Co., 1.8 mi (2.9 km) southwest of Van Arsdale Dam, and 2.9 mi (4.7 km) northwest of town of Potter Valley.

PERIOD OF RECORD.--December 1909 to current year. Prior to October 1922, monthly discharge only, published in WSP 1315-B. Prior to October 1931, published as Snow Mountain Water and Power Co.'s tailrace near Potter Valley.

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is 1,020 ft (311 m), from topographic map. No gage prior to Dec. 1, 1922. Dec. 1, 1922, to Sept. 30, 1923, nonrecording gage and Oct. 1, 1923, to Apr. 12, 1950, water-stage recorder, at site 50 ft (15 m) upstream at different datum.

AVERAGE DISCHARGE.--64 years (1910-74), 203 ft³/s (5.749 m³/s), 147,100 acre-ft/yr (181 hm³/yr).

EXTREMES.--Period of record (1922 to current year): Maximum daily discharge, 348 ft³/s (9.86 m³/s) Apr. 24, 1953; no flow at times in several years.

REMARKS.--Water is diverted from Eel River above Van Arsdale Dam. After passing through powerhouse, part of it is used for irrigation in Potter Valley and remainder flows into East Fork Russian River. Water for irrigation diverted from tailrace is included in figures of discharge. Records of water temperatures for the current year are published in Part 2 of this report.

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

REVISIONS (WATER YEARS).--WSP 1395: 1950.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	310	.07	210	317	308	300	305	308	309	246	96	87
2	306	.07	191	318	310	303	305	308	314	218	84	87
3	307	.07	239	320	310	300	306	308	318	94	89	87
4	307	.07	315	320	310	300	307	308	311	105	96	82
5	308	.14	313	319	310	302	305	308	312	104	97	110
6	308	.22	322	319	310	309	304	308	314	104	93	200
7	308	.22	320	319	310	305	303	306	309	104	93	283
8	215	.22	320	319	310	305	303	306	309	136	90	288
9	166	2.8	321	319	310	305	303	305	308	118	90	286
10	165	1.9	323	319	308	305	303	306	302	112	88	288
11	165	5.2	323	318	282	306	305	306	304	105	88	287
12	165	3.2	322	318	277	304	309	307	304	99	88	286
13	164	2.7	321	318	227	304	309	306	312	89	89	286
14	164	.60	300	318	1.8	297	309	307	306	90	90	287
15	94	.50	318	310	.87	298	308	305	300	90	89	288
16	.55	6.9	320	288	125	303	308	308	233	89	88	290
17	0	.96	320	298	174	303	306	307	240	90	88	288
18	0	.45	320	161	165	305	308	307	247	90	88	274
19	0	.43	320	163	116	306	307	307	232	90	88	281
20	0	.47	320	166	118	305	307	304	231	100	94	284
21	0	1.6	325	162	179	216	307	306	231	105	85	288
22	0	1.4	313	162	266	160	307	307	231	90	89	287
23	0	.43	317	161	310	164	308	307	231	90	91	288
24	0	.43	317	161	310	258	308	305	231	90	91	288
25	0	.43	316	161	311	308	307	304	231	87	88	284
26	0	.43	317	161	306	308	308	302	231	88	87	283
27	0	57	317	161	312	308	308	256	231	84	87	282
28	.14	238	318	162	309	283	307	310	237	80	86	283
29	.14	248	318	203	-----	307	308	312	246	77	87	283
30	.14	236	318	310	-----	305	308	312	246	92	86	281
31	.10	-----	317	307	-----	305	-----	308	-----	103	87	-----
TOTAL	3,453.07	810.91	9,551	7,958	6,885.67	8,987	9,196	9,464	8,161	3,259	2,770	7,496
MEAN	111	27.0	308	257	246	290	307	305	272	105	89.4	250
MAX	310	248	325	320	312	309	309	312	318	246	97	290
MIN	0	.07	191	161	.87	160	303	256	231	77	84	82
AC-FT	6,850	1,610	18,940	15,780	13,660	17,830	18,240	18,770	16,190	6,460	5,490	14,870

CAL YR 1973 TOTAL 77,651.98 MEAN 213 MAX 333 MIN 0 AC-FT 154,000
WTR YR 1974 TOTAL 77,991.65 MEAN 214 MAX 325 MIN 0 AC-FT 154,700

EEL RIVER BASIN

11471500 EEL RIVER AT VAN ARSDALE DAM, NEAR POTTER VALLEY, CALIF.

LOCATION.--Lat 39°23'19", long 123°06'54", in NE¼ sec.30, T.18 N., R.11 W., Mendocino County, on left bank 1,000 ft (305 m) downstream from Van Arsdale Dam, and 4.6 mi (7.4 km) north of town of Potter Valley.

DRAINAGE AREA.--349 mi² (904 km²).

PERIOD OF RECORD.--November 1909 to September 1922 (combined monthly discharge only, of Eel River at this station and Snow Mountain Water and Power Co.'s tailrace near Potter Valley), October 1922 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1929, published as South Eel River at Van Arsdale Dam, near Potter Valley.

GAGE.--Water-stage recorder. Altitude of gage is 1,400 ft (427 m), from topographic map. Nov. 18, 1909, to Mar. 3, 1927, recorder in reservoir 800 ft (244 m) upstream from Van Arsdale Dam at different datum. Oct. 1, 1927, to Feb. 28, 1937, nonrecording gage at present site and datum.

AVERAGE DISCHARGE (combined flow of Eel River at Van Arsdale Dam and Potter Valley powerhouse tailrace).--65 years (1909-74), 648 ft³/s (18.35 m³/s), 469,500 acre-ft/yr (579 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 39,600 ft³/s (1,120 m³/s) Jan. 16 (gage height, 26.92 ft or 8.205 m); minimum daily, 0.48 ft³/s (0.014 m³/s) Sept. 27.

Period of record: Maximum discharge, 64,100 ft³/s (1,820 m³/s) Dec. 22, 1964 (gage height, 33.9 ft or 10.33 m, from floodmarks); no flow at times.

REMARKS.--Flow regulated by Lake Pillsbury 11 mi (18 km) upstream (see sta 11470000). Water is diverted from Van Arsdale Reservoir through tunnel to Potter Valley powerhouse (see sta 11471000) after which part is used for irrigation and remainder flows into East Fork Russian River. Records given herein show only flow passing dam down Eel River. Records of chemical analyses for the current year are published in Part 2 of this report.

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

REVISIONS (WATER YEARS).--WSP 1315-B: 1913, 1920-23, 1925-27. WSP 1395: 1923(M), 1938.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	49	12,700	1,900	1,080	9,080	10,700	173	4.4	6.2	5.1	4.9
2	2.3	49	5,490	1,480	825	7,180	7,590	172	7.2	6.2	5.1	5.0
3	2.4	49	3,010	1,250	651	4,010	4,440	177	4.9	5.8	5.5	4.8
4	2.8	51	2,090	1,080	546	2,730	2,740	178	4.7	5.8	5.8	4.9
5	2.5	301	1,740	930	460	2,200	1,930	169	6.4	5.8	5.8	4.9
6	8.3	207	1,510	790	387	1,860	1,120	182	4.9	6.0	5.8	4.9
7	16	371	1,330	664	342	1,740	268	185	4.7	6.0	5.8	4.9
8	75	432	1,300	583	290	1,550	151	59	5.8	6.4	5.8	4.4
9	3.1	528	1,120	492	251	1,330	162	25	6.2	5.4	5.8	4.4
10	4.4	1,140	932	417	226	1,170	127	35	6.2	5.2	5.4	4.7
11	8.7	4,850	962	384	220	2,140	305	57	6.2	5.2	5.4	4.6
12	8.3	11,300	1,040	851	231	3,320	688	58	6.8	5.1	5.8	4.5
13	7.9	5,950	2,020	2,180	224	2,950	786	58	6.8	5.2	5.1	4.5
14	7.5	4,200	2,070	4,920	86	2,330	772	57	6.8	5.2	5.1	4.7
15	28	3,130	1,610	15,900	214	1,950	685	55	6.6	5.2	5.0	5.0
16	26	8,180	1,320	31,700	942	1,650	548	42	6.6	5.2	5.2	5.3
17	23	5,730	1,530	16,300	463	1,440	457	16	6.2	5.2	5.5	5.7
18	23	4,550	1,630	8,810	483	1,290	249	18	6.2	4.9	5.6	5.0
19	22	2,830	1,330	9,670	3,270	1,140	90	17	6.6	4.9	5.4	5.4
20	23	2,200	1,190	5,990	2,300	1,000	84	13	6.6	4.9	5.5	5.7
21	30	1,850	3,680	3,880	1,720	969	80	10	7.2	4.9	5.3	5.8
22	52	1,480	4,030	2,840	1,350	933	77	5.0	7.0	5.1	5.6	5.8
23	212	1,050	2,530	2,280	1,000	845	118	4.8	7.0	5.1	5.6	5.4
24	87	255	1,890	1,880	823	683	239	5.7	7.0	5.1	5.8	5.2
25	47	209	1,590	1,570	708	688	246	16	7.0	5.1	5.6	3.5
26	36	200	1,510	1,350	720	613	387	14	7.0	5.1	5.4	1.7
27	33	753	2,360	1,160	703	399	429	45	7.0	5.1	5.3	.48
28	31	670	2,670	1,010	3,040	1,370	179	6.3	6.8	5.1	5.3	.62
29	29	1,380	3,810	853	-----	10,600	178	4.2	6.4	5.1	5.0	.67
30	28	7,700	3,480	644	-----	23,300	186	4.3	6.2	5.1	5.0	1.4
31	46	-----	2,480	748	-----	9,390	-----	4.4	-----	5.1	5.0	-----
TOTAL	927.6	71,684	75,954	124,506	23,555	101,850	36,011	1,865.7	189.4	165.7	168.4	128.77
MEAN	29.9	2,389	2,450	4,016	841	3,285	1,200	60.2	6.31	5.35	5.43	4.29
MAX	212	11,300	12,700	31,700	3,270	23,300	10,700	185	7.2	6.4	5.8	5.8
MIN	2.3	49	932	384	86	399	77	4.2	4.4	4.9	5.0	.48
AC-FT	1,840	142,200	150,700	247,000	46,720	202,000	71,430	3,700	376	329	334	255
CAL YR 1973	TOTAL 327,535.60		MEAN 897		MAX 12,800		MIN 1.6		AC-FT 649,700			
WTR YR 1974	TOTAL 437,005.57		MEAN 1,197		MAX 31,700		MIN .48		AC-FT 866,800			

11472150 EEL RIVER NEAR DOS RIOS, CALIF.

LOCATION.--Lat 39°37'30", long 123°20'25", in SW¼SW¼ sec.32, T.21 N., R.13 W., Mendocino County, on left bank 1,100 ft (335 m) upstream from Outlet Creek, and 6.3 mi (10.1 km) south of Dos Rios.

DRAINAGE AREA.--528 mi² (1,368 km²).

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,001.28 ft (305.190 m) above mean sea level.

AVERAGE DISCHARGE.--8 years, 1,163 ft³/s (32.94 m³/s), 842,600 acre-ft/yr (1.04 km³/yr).

EXTREMES.--Current year: Maximum discharge, 65,500 ft³/s (1,850 m³/s) Jan. 16 (gage height, 33.64 ft or 10.253 m), from rating curve extended as explained below; minimum daily, 6.2 ft³/s (0.18 m³/s) Oct. 2-5.
Period of record: Maximum discharge, 65,500 ft³/s (1,850 m³/s) Jan. 16, 1974 (gage height, 33.64 ft or 10.253 m), from rating curve extended above 26,000 ft³/s (736 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 1.8 ft³/s (0.051 m³/s) Oct. 7, 8, 1970.
Flood of Dec. 22, 1964, reached a stage of 45.52 ft (13.874 m), from information by local resident (discharge, 100,000 ft³/s or 2,830 m³/s).

REMARKS.--Records fair. Flow partly regulated by Lake Pillsbury 40 mi (64 km) upstream (see sta 11470000) and by diversion through Potter Valley powerhouse (see sta 11471000). Records of chemical analyses, water temperatures, and sediment discharge for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	45	18,500	2,710	2,170	13,100	21,900	491	60	19	11	9.5
2	6.2	50	8,570	2,100	1,630	11,700	13,100	392	56	16	11	9.5
3	6.2	49	4,990	1,790	1,340	7,070	7,540	380	52	18	11	9.5
4	6.2	50	3,350	1,590	1,180	4,570	4,880	340	47	19	10	8.6
5	6.2	1,490	2,620	1,430	1,060	3,450	3,190	371	44	16	10	8.2
6	7.6	1,080	2,380	1,270	935	2,890	2,430	358	47	18	11	8.2
7	21	1,810	2,100	1,120	855	2,970	1,170	388	43	18	11	7.8
8	22	2,140	1,980	1,030	767	2,690	900	285	41	23	11	7.8
9	54	3,730	1,710	929	704	2,310	1,240	171	39	72	11	7.8
10	23	4,960	1,460	834	646	2,100	1,060	129	39	77	10	7.8
11	11	10,500	1,690	773	608	3,950	832	149	39	32	13	7.8
12	13	15,100	1,780	1,250	669	5,100	1,190	171	37	27	10	7.8
13	13	9,490	3,750	2,590	720	4,980	1,270	171	35	26	9.9	7.8
14	9.7	6,490	3,470	6,380	545	3,430	1,190	167	33	22	9.9	7.8
15	9.7	4,750	2,620	24,800	392	2,840	1,120	167	33	21	9.9	7.8
16	9.7	12,000	2,100	55,200	1,290	2,450	935	156	33	20	9.9	7.8
17	26	8,990	2,240	28,200	999	2,160	883	132	32	19	8.6	7.8
18	21	7,040	2,350	14,500	1,740	1,930	710	117	32	15	8.6	7.8
19	18	4,300	1,950	14,800	7,600	1,710	440	119	30	17	8.6	7.8
20	18	3,330	1,930	9,300	3,950	1,480	367	111	43	17	9.0	7.8
21	39	2,740	6,300	6,210	2,840	1,350	341	101	39	16	9.0	7.8
22	436	2,160	6,200	4,410	2,380	1,320	316	92	35	14	9.5	7.8
23	1,270	1,800	3,760	3,450	1,810	1,220	394	90	32	13	9.5	7.8
24	412	1,070	2,800	2,880	1,530	1,100	467	77	36	13	9.5	7.8
25	152	821	2,270	2,450	1,340	1,060	570	75	29	13	9.0	7.8
26	90	751	2,210	2,150	1,300	1,140	669	75	29	13	9.0	7.8
27	67	1,010	3,540	1,830	1,290	1,650	889	40	20	13	9.5	7.8
28	50	1,040	4,220	1,620	7,210	3,110	453	122	26	13	9.5	7.8
29	43	1,740	6,210	1,470	-----	25,700	565	75	25	13	9.5	7.8
30	40	9,970	5,130	1,230	-----	40,600	529	65	22	12	9.5	7.8
31	37	-----	3,570	1,520	-----	15,800	-----	62	-----	11	9.5	-----
TOTAL	2,949.1	120,996	117,750	202,820	49,486	176,430	71,450	5,625	1,117	654	304.4	219.5
MEAN	95.1	4,033	3,798	6,543	1,767	5,691	2,382	181	37.2	21.1	9.82	7.98
MAX	1,270	15,100	18,500	56,200	7,600	40,600	21,900	491	60	72	11	9.5
MIN	6.2	45	1,460	773	392	1,060	304	62	22	1	8.6	7.4
AC-FT	5,350	240,000	233,600	402,300	98,160	349,900	141,700	11,160	2,220	1,310	606	475

CAL YR 1973 TOTAL 573,452.4 MEAN 1,571 MAX 21,400 MIN 2.9 AC-FT 1,137,000
WTR YR 1974 TOTAL 749,821.0 MEAN 2,054 MAX 56,200 MIN 6.2 AC-FT 1,447,000

EEL RIVER BASIN

11472200 OUTLET CREEK NEAR LONGVALE, CALIF.

LOCATION.--Lat 39°37'05", long 123°21'20", in NE¼ sec.1, T.20 N., R.14 W., Mendocino County, on right bank 0.2 mi (0.3 km) downstream from Bloody Run Creek, 0.9 mi (1.4 km) upstream from mouth, and 6.9 mi (11.1 km) northeast of Longvale.

DRAINAGE AREA.--161 mi² (417 km²).

PERIOD OF RECORD.--October 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,018.14 ft (310.329 m) above mean sea level.

AVERAGE DISCHARGE.--18 years, 455 ft³/s (12.89 m³/s), 329,600 acre-ft/yr (406 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 26,300 ft³/s (745 m³/s) Jan. 16 (gage height, 20.20 ft or 6.157 m); minimum daily, 1.1 ft³/s (0.031 m³/s) Sept. 21-25.

Period of record: Maximum discharge, 77,900 ft³/s (2,210 m³/s) Dec. 22, 1964 (gage height, 30.6 ft or 9.33 m, from floodmarks), from rating curve extended above 17,000 ft³/s (481 m³/s) on basis of slope-area measurement of maximum flow; no flow Aug. 15-17, 1959, Sept. 14, 15, 1967.

REMARKS.--Records good except those for period of no gage-height record, which are fair. No regulation or diversion above station.

REVISIONS (WATER YEARS).--WSP 1929: 1958(M), 1960.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

D/	OCT	NOV	DEC	JAN	FER	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	19	4,510	866	1,280	4,290	8,600	91	24	10	4.7	2.8
2	1.5	17	2,510	635	714	3,320	3,800	79	23	9.5	5.4	2.3
3	1.4	15	1,510	550	520	2,410	1,900	71	22	8.9	6.7	1.9
4	1.4	15	888	518	443	1,650	1,280	62	21	8.4	6.0	1.9
5	1.4	1,900	708	504	389	1,100	960	58	20	6.0	7.4	1.5
6	3.2	941	692	504	347	862	740	54	19	6.0	6.7	1.4
7	34	2,200	796	460	316	1,070	590	50	17	6.7	5.4	1.4
8	22	1,820	702	430	291	979	510	46	17	18	4.3	1.4
9	15	3,990	527	383	267	752	900	43	16	27	4.3	1.5
10	10	3,690	438	348	248	665	600	40	16	26	4.3	1.5
11	6.7	6,530	848	336	232	1,980	450	38	15	20	4.3	1.5
12	6.0	4,780	911	917	266	1,770	390	36	14	16	4.3	1.3
13	12	3,400	2,350	1,220	366	1,350	340	35	14	14	3.4	1.3
14	26	2,660	1,790	3,660	280	969	300	33	14	13	3.4	1.3
15	15	1,810	1,240	8,890	238	783	270	31	14	11	3.8	1.3
16	6.7	4,310	831	21,000	457	663	240	30	14	11	3.4	1.4
17	4.8	2,890	1,050	7,050	464	571	230	34	14	8.4	3.4	1.3
18	3.0	2,430	802	4,860	1,720	500	220	37	14	7.9	3.4	1.3
19	3.7	1,480	609	3,840	4,560	442	215	34	16	7.9	3.4	1.2
20	3.5	1,470	982	2,320	2,130	397	192	31	16	7.9	3.4	1.2
21	10	1,200	3,310	1,500	1,620	359	174	28	16	7.9	3.4	1.1
22	594	860	2,270	949	1,230	334	160	25	16	7.9	2.8	1.1
23	1,330	666	1,460	722	757	315	153	35	16	6.0	2.3	1.1
24	355	702	1,000	603	575	294	147	32	14	6.0	1.9	1.1
25	179	584	757	511	477	398	170	26	13	6.0	2.3	1.1
26	92	532	1,060	448	570	407	200	22	13	6.0	2.3	1.2
27	61	555	1,880	393	555	1,410	170	20	13	5.4	1.9	1.2
28	44	702	2,040	355	4,610	2,140	142	19	12	4.8	1.5	1.2
29	34	1,410	3,390	324	-----	6,500	118	18	12	4.8	1.9	1.3
30	25	3,810	2,100	299	-----	20,100	101	26	11	3.8	1.9	1.5
31	22	-----	1,350	822	-----	4,700	-----	25	-----	3.6	2.3	-----
TOTAL	2,925.1	57,388	45,311	66,217	25,922	63,480	24,262	1,209	476	305.8	115.9	42.6
MEAN	94.4	1,913	1,462	2,136	926	2,048	809	39.0	15.9	9.86	3.74	1.42
MAX	1,330	6,530	4,510	21,000	4,610	20,100	8,600	91	24	27	7.4	2.8
MIN	1.4	15	438	299	232	294	101	18	11	3.6	1.5	1.1
AC-FT	5,800	113,800	89,870	131,300	51,420	125,900	48,120	2,400	944	607	230	84

CAL YR 1973 TOTAL 225,043.40 MEAN 617 MAX 8,370 MIN .21 AC-FT 446,400
WTR YR 1974 TOTAL 287,654.40 MEAN 788 MAX 21,000 MIN 1.1 AC-FT 570,600

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-11	0615	11.48	9,020	2-28	1400	11.65	9,280
1-16	1215	20.20	26,300	3-30	unknown	20.00	25,800
2-19	0100	11.67	9,310	4-1	unknown	17.77	20,800

NOTE.--No gage-height record Apr. 25 to May 30.

11472900 BLACK BUTTE RIVER NEAR COVELO, CALIF.

LOCATION.--Lat 39°49'15", long 123°04'50", in SE¼ sec.28, T.23 N., R.11 W., Mendocino County, on right bank 10 ft (3 m) upstream from highway bridge, 0.5 mi (0.8 km) upstream from mouth, and 9.5 mi (15.3 km) east of Covelo.

DRAINAGE AREA.--162 mi² (420 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1951-56, and annual maximum, water years 1954-57, October 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,456.71 ft (444.005 m) above mean sea level. Sept. 10, 1953, to Sept. 30, 1957, crest-stage gage only at same site at different datum. Oct. 1, 1958, to Dec. 22, 1964, water-stage recorder at site 0.1 mi (0.2 km) upstream at same datum.

AVERAGE DISCHARGE.--16 years, 328 ft³/s (9.289 m³/s), 237,600 acre-ft/yr (293 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 21,300 ft³/s (603 m³/s) Jan. 16 (gage height, 22.42 ft or 6.834 m); minimum daily, 2.8 ft³/s (0.079 m³/s) Sept. 21.

Period of record: Maximum discharge, 29,000 ft³/s (821 m³/s) Dec. 22, 1964 (gage height, 26.4 ft or 8.05 m, from floodmarks, site then in use), from rating curve extended above 13,000 ft³/s (368 m³/s) on basis of slope-area measurement of maximum flow; minimum (1958 to current year), 1.2 ft³/s (0.034 m³/s) Sept. 11, 1959.

Flood of Dec. 11, 1937, reached a stage of 36.2 ft (11.03 m), from floodmarks at crest-stage site (discharge, 26,000 ft³/s or 736 m³/s).

REMARKS.--Records poor. No regulation or diversion above station. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1715: 1959(M).

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	69	3,300	1,060	600	4,030	3,710	533	141	50	13	5.1
2	8.0	63	2,000	855	450	1,920	1,880	439	137	47	12	5.1
3	7.8	56	1,400	735	380	1,250	1,090	434	134	45	11	5.0
4	7.6	51	1,080	660	340	1,020	805	469	129	42	11	4.8
5	7.5	365	910	572	310	972	685	464	128	39	12	4.8
6	9.0	200	950	491	280	855	615	362	125	37	13	4.6
7	19	265	960	425	260	909	603	383	117	35	9.1	4.4
8	47	380	830	391	250	763	603	401	110	44	8.3	4.4
9	30	554	590	368	240	644	603	349	104	72	8.3	4.3
10	23	2,330	455	343	220	577	621	302	101	58	7.7	4.3
11	18	3,910	600	337	210	909	550	287	97	55	7.2	4.1
12	16	4,090	860	455	210	1,210	597	253	93	49	7.0	3.9
13	14	1,890	1,240	901	210	987	555	230	89	44	7.0	3.9
14	13	1,360	948	1,870	190	703	591	230	87	40	7.0	3.6
15	12	1,170	729	5,430	180	660	544	214	84	37	6.7	3.6
16	12	3,820	649	14,600	230	671	500	209	82	35	6.7	3.4
17	11	2,030	1,210	7,300	220	660	603	214	79	33	6.7	3.3
18	10	1,620	964	3,850	540	616	640	225	77	32	6.7	3.3
19	10	886	724	4,000	2,280	526	615	209	83	30	6.5	3.0
20	11	778	1,020	2,450	1,000	461	621	184	85	28	6.7	3.0
21	22	660	2,970	1,550	630	400	609	175	77	27	6.7	2.8
22	175	594	2,150	1,180	530	386	634	164	71	25	6.5	3.0
23	520	532	1,060	950	450	356	621	155	68	23	6.2	4.6
24	370	622	995	790	410	383	634	149	66	21	6.0	6.5
25	250	537	1,150	690	400	467	591	155	63	20	6.0	6.2
26	190	479	1,170	600	410	378	573	153	61	19	6.0	6.2
27	145	485	2,820	520	437	503	634	164	60	18	5.5	5.7
28	114	566	2,930	475	2,320	735	685	166	59	17	5.7	5.5
29	100	740	4,140	430	-----	5,520	634	162	56	16	5.7	5.3
30	87	4,380	2,060	395	-----	4,230	555	153	54	15	5.5	5.3
31	77	-----	1,450	480	-----	2,250	-----	146	-----	14	5.5	-----
TOTAL	2,348.2	35,482	44,314	55,153	14,187	35,951	23,201	8,133	2,717	1,067	238.9	133.0
MEAN	75.7	1,183	1,429	1,779	507	1,160	773	262	90.6	34.4	7.71	4.43
MAX	520	4,380	4,140	14,600	2,320	5,520	3,710	533	141	72	13	6.5
MIN	7.5	51	455	337	180	356	500	146	54	14	5.5	2.8
AC-FT	4,660	70,380	87,900	109,400	28,140	71,310	46,020	16,130	5,390	2,120	474	264
CAL YR 1973	TOTAL 178,758.2	MEAN 490	MAX 5,660	MIN 2.2	AC-FT 354,600							
WTR YR 1974	TOTAL 222,925.1	MEAN 611	MAX 14,600	MIN 2.8	AC-FT 442,200							

		PEAK DISCHARGE (BASE, 5,500 FT ³ /S)					
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-10	2115	16.79	5,610	1-16	1015	22.42	21,300
11-30	2100	17.17	6,250	3-29	unknown	19.81	12,700
12-29	0600	17.13	6,180				

NOTE.--No gage-height record Oct. 1 to Nov. 17, Jan. 17 to Apr. 16, June 29 to Aug. 6.

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CALIF.

LOCATION.--Lat 39°42'23", long 123°19'27", in NE¼SE¼ sec.5, T.21 N., R.13 W., Mendocino County, on right bank 0.6 mi (1.0 km) upstream from Eastman Creek, 1.7 mi (2.7 km) southeast of Dos Rios, and 1.9 mi (3.1 km) upstream from mouth.

DRAINAGE AREA.--745 mi² (1,930 km²).

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 901.58 ft (274.802 m) above mean sea level.

AVERAGE DISCHARGE.--9 years, 1,952 ft³/s (55.28 m³/s), 1,414,000 acre-ft/yr (1.74 km³/yr).

EXTREMES.--Current year: Maximum discharge, 89,500 ft³/s (2,530 m³/s) Jan. 16 (gage height, 27.05 ft or 8.245 m); minimum daily, 9.3 ft³/s (0.26 m³/s) Sept. 25-27.
Period of record: Maximum discharge, 90,500 ft³/s (2,560 m³/s) Jan. 23, 1970 (gage height, 27.15 ft or 8.275 m); minimum daily, 5.8 ft³/s (0.16 m³/s) Sept. 14-16, 1970.

REMARKS.--Records fair. No regulation or diversion above station. Records of water temperatures and sediment discharge for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD Calif. 1967: 1966.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	417	19,300	4,080	2,900	14,500	26,400	2,270	734	164	44	17
2	23	384	9,000	3,220	2,140	9,020	15,700	2,190	738	159	41	17
3	22	345	6,500	2,810	1,890	5,210	9,250	2,140	738	152	39	16
4	22	308	4,900	2,430	1,710	3,910	6,610	2,080	698	142	37	15
5	21	2,160	4,180	2,180	1,570	3,550	5,530	2,040	693	133	39	15
6	23	3,120	4,400	1,980	1,410	3,420	4,810	2,220	726	128	45	14
7	41	5,490	4,450	1,780	1,330	3,900	4,110	2,330	647	123	46	14
8	140	7,660	4,000	1,670	1,250	3,560	3,690	2,550	577	155	41	13
9	90	9,140	2,800	1,540	1,160	3,320	3,860	2,460	524	328	37	13
10	67	14,800	2,060	1,410	1,100	3,190	3,410	2,010	491	236	33	13
11	55	25,700	2,700	1,350	1,040	5,390	3,050	1,850	472	187	30	13
12	49	21,900	3,500	2,070	1,070	5,540	2,900	1,700	450	164	27	12
13	43	11,000	6,880	4,850	1,060	4,730	2,690	1,500	424	151	25	12
14	37	7,950	5,270	10,500	947	4,080	2,570	1,370	391	139	23	12
15	35	6,790	4,100	37,500	899	4,060	2,530	1,300	358	128	22	11
16	34	16,700	3,680	72,100	1,160	3,950	2,450	1,200	336	120	21	11
17	33	9,690	5,900	31,600	1,050	3,990	2,440	1,120	319	113	20	11
18	30	8,280	5,200	18,700	1,740	4,250	2,550	1,080	303	109	20	11
19	29	4,880	4,030	19,600	9,680	4,000	2,290	1,020	306	104	19	11
20	29	4,460	4,680	10,400	3,910	3,820	2,050	926	321	100	19	10
21	38	3,740	14,400	7,450	3,090	3,700	1,990	861	295	92	19	9.9
22	1,340	2,940	9,060	5,570	2,680	3,610	2,110	840	266	87	19	9.9
23	3,140	2,370	5,240	4,510	2,200	3,500	2,100	846	246	81	17	9.7
24	2,200	2,540	4,590	3,830	2,040	3,390	1,990	845	232	76	16	9.5
25	1,530	2,080	4,690	3,320	1,950	3,790	1,880	891	218	71	15	9.3
26	1,140	2,020	4,510	2,940	2,100	4,210	1,870	985	207	67	15	9.3
27	806	1,870	7,440	2,540	2,070	5,250	1,750	1,080	200	61	14	9.3
28	705	2,570	8,330	2,310	11,100	7,520	1,670	986	193	59	13	9.6
29	624	5,400	17,400	2,080	-----	36,000	1,720	944	184	56	21	9.9
30	515	18,000	8,890	1,910	-----	48,400	1,970	825	174	52	19	9.9
31	451	-----	5,310	2,410	-----	19,900	-----	764	-----	47	18	-----
TOTAL	13,336	204,704	197,390	270,640	66,246	236,660	127,940	45,223	12,461	3,784	814	357.3
MEAN	430	6,823	6,367	8,730	2,366	7,634	4,265	1,459	415	122	26.3	11.9
MAX	3,140	25,700	19,300	72,100	11,100	48,400	26,400	2,550	738	328	46	17
MIN	21	308	2,060	1,350	899	3,190	1,670	764	174	47	13	9.3
AC-FI	26,450	406,000	391,500	536,800	131,400	469,400	253,800	89,700	24,720	7,510	1,610	709

CAL YR 1973 TOTAL 925,852.0 MEAN 2,537 MAX 34,300 MIN 12 AC-FI 1,836,000
WTR YR 1974 TOTAL 1,179,555.3 MEAN 3,232 MAX 72,100 MIN 9.3 AC-FI 2,340,000

PEAK DISCHARGE (BASE, 35,000 FT³/S).--Jan. 16 (1200) 89,500 ft³/s (27.05 ft); Mar. 30 (0015) 74,200 ft³/s (25.36 ft).

11474500 NORTH FORK EEL RIVER NEAR MINA, CALIF.

LOCATION.--Lat 39°56'18", long 123°20'36", in SW¹/₄ sec.8, T.24 N., R.13 W., Mendocino County, on right bank 0.2 mi (0.3 km) upstream from county road bridge, 1.4 mi (2.3 km) upstream from Asbill Creek, and 2 mi (3 km) south of Mina.

DRAINAGE AREA.--248 mi² (642 km²).

PERIOD OF RECORD.--August 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,016.8 ft (309.92 m) above mean sea level (levels by Topographic Division). Aug. 27, 1953, to Jan. 15, 1954, water-stage recorder and Jan. 16 to June 22, 1954, nonrecording gage, at site 0.4 mi (0.6 km) downstream at different datums. June 23, 1954, to Dec. 21, 1964, water-stage recorder and Feb. 7 to July 8, 1965, nonrecording gage at site 0.2 mi (0.3 km) downstream at different datums. July 9, 1965, to Aug. 20, 1967, water-stage recorder at site 0.6 mi (1.0 km) downstream at datum 15.1 ft (4.60 m) lower.

AVERAGE DISCHARGE.--21 years, 651 ft³/s (18.44 m³/s), 471,600 acre-ft/yr (581 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 38,000 ft³/s (1,080 m³/s) Jan. 16 (gage height, 21.30 ft or 6.492 m), from rating curve extended above 15,000 ft³/s (425 m³/s); minimum daily, 3.4 ft³/s (0.096 m³/s) Sept. 29, 30. Period of record: Maximum discharge, 133,000 ft³/s (3,770 m³/s) Dec. 22, 1964 (gage height, 34.5 ft or 10.52 m, from floodmarks, present site and datum), from rating curve extended above 12,000 ft³/s (340 m³/s) on basis of slope-area measurement of maximum flow; minimum, 0.1 ft³/s (0.003 m³/s) Aug. 30, 31, 1959.

REMARKS.--Records good. No regulation or diversion above station. Records of water temperatures and sediment discharge for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	20	6,840	1,570	1,410	6,450	8,410	253	60	19	8.8	5.1
2	9.1	17	3,250	1,180	943	4,110	4,360	239	57	18	8.8	4.9
3	8.2	16	2,230	964	746	2,700	2,710	227	54	17	8.5	4.9
4	7.4	15	1,740	796	646	1,940	1,940	212	53	16	8.5	4.9
5	7.4	800	1,490	724	569	1,570	1,660	201	51	16	8.2	4.9
6	7.4	1,650	1,590	667	501	1,450	1,310	194	50	15	8.2	4.7
7	40	1,940	1,610	589	453	1,770	1,020	188	48	15	8.2	4.7
8	24	1,540	1,450	527	422	1,410	893	179	45	18	8.8	4.7
9	16	3,780	1,080	479	392	1,200	1,030	168	43	60	8.5	4.7
10	12	5,940	849	437	369	1,090	953	157	40	36	8.2	4.7
11	11	10,000	1,170	407	345	2,280	810	150	36	25	8.2	4.4
12	9.6	6,440	1,230	825	360	2,660	710	144	35	22	8.2	4.4
13	20	4,440	3,320	2,730	360	2,190	625	137	34	20	7.6	4.4
14	33	3,940	2,430	5,310	314	1,670	565	131	32	18	7.6	4.4
15	27	3,140	1,730	14,300	293	1,330	505	126	32	17	7.3	4.2
16	11	4,600	1,390	30,700	437	1,080	462	122	31	16	7.3	4.2
17	9.0	3,310	2,130	10,600	410	923	431	144	30	15	6.7	4.2
18	8.0	3,620	1,830	5,540	1,700	806	483	161	30	15	6.7	4.2
19	8.5	2,090	1,350	5,140	5,470	676	434	153	35	14	6.7	3.9
20	8.0	2,030	1,890	2,990	2,090	597	383	126	40	14	6.7	3.9
21	80	1,830	5,030	2,110	1,670	527	358	112	39	13	6.4	3.9
22	600	1,520	3,300	1,570	1,410	469	339	104	32	13	6.2	3.9
23	1,400	1,230	2,210	1,240	1,120	431	336	98	29	12	6.2	3.7
24	450	1,470	1,800	1,020	995	398	329	92	28	12	6.2	3.7
25	150	1,220	1,570	858	888	469	352	86	25	11	5.6	3.7
26	85	1,080	1,520	737	1,260	428	380	82	24	11	5.6	3.7
27	62	1,090	2,490	646	1,010	1,130	342	78	23	10	5.6	3.6
28	47	1,350	3,140	573	7,770	2,390	305	74	23	9.8	5.4	3.6
29	35	2,390	6,090	512	-----	16,300	279	71	22	9.5	5.1	3.4
30	27	6,600	3,030	459	-----	15,300	265	66	20	9.1	5.1	3.4
31	23	-----	2,110	943	-----	4,500	-----	64	-----	9.1	5.1	-----
TOTAL	3,245.6	79,108	72,889	97,143	34,353	80,244	32,979	4,339	1,111	525.5	220.2	127.0
MEAN	105	2,637	2,351	3,134	1,227	2,589	1,099	140	37.0	17.0	7.10	4.23
MAX	1,400	10,000	6,840	30,700	7,770	16,300	8,410	253	60	60	8.8	5.1
MIN	7.4	15	849	407	293	398	265	64	20	9.1	5.1	3.4
AC-FT	6,440	156,900	144,600	192,700	68,140	159,200	65,410	8,610	2,200	1,040	437	252

CAL YR 1973 TOTAL 320,931.32 MEAN 879 MAX 14,300 MIN .50 AC-FT 636,600
WTR YR 1974 TOTAL 406,284.30 MEAN 1,113 MAX 30,700 MIN 3.4 AC-FT 805,900

PEAK DISCHARGE (BASE, 8,000 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-11	0900	14.12	13,000	2-19	0430	12.81	10,100
11-30	2400	13.27	11,100	2-28	1615	15.59	16,800
12-29	0800	12.69	9,850	3-29	2300	20.46	34,200
1-16	1515	21.30	38,000	4-1	1115	14.08	12,900
1-18	2315	12.05	8,590				

EEL RIVER BASIN

11474700 CHAMISE CREEK NEAR ISLAND MOUNTAIN, CALIF.

LOCATION.--Lat 40°02'14", long 123°33'10", in NW¼SW¼ sec.7, T.5 S., R.6 E., Humboldt County, on right bank at downstream side of county road bridge, at Dry Creek, 3.2 mi (5.1 km) northwest of Island Mountain, and 3.8 mi (6.1 km) upstream from mouth.

DRAINAGE AREA.--22.6 mi² (58.5 km²).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 850 ft (259 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 2,830 ft³/s (80.1 m³/s) Mar. 29 (gage height, 8.81 ft or 2.685 m), from rating curve extended as explained below; minimum daily, 0.37 ft³/s (0.010 m³/s) Sept. 9-26.
Period of record: Maximum discharge, 2,830 ft³/s (80.1 m³/s) Mar. 29, 1974 (gage height, 8.81 ft or 2.685 m), from rating curve extended above 780 ft³/s (22.1 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.37 ft³/s (0.010 m³/s) Sept. 9-26, 1974.

REMARKS.--Records fair. No regulation or diversion above station. Records of water temperatures and sediment discharge for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.98	4.7	660	134	338	646	170	14	5.2	2.5	.80	.60
2	.90	4.4	365	110	317	487	242	13	4.9	2.5	.80	.52
3	.90	4.2	254	97	251	370	278	12	4.5	2.3	.80	.52
4	.83	5.2	186	86	225	213	201	13	4.5	2.4	.70	.52
5	.83	331	143	78	205	145	168	12	4.5	2.4	1.1	.52
6	1.4	174	118	71	178	119	127	11	4.9	2.1	1.3	.52
7	3.0	174	124	61	209	116	96	11	4.5	2.1	1.1	.44
8	2.1	126	112	58	213	96	84	12	4.5	3.5	.92	.44
9	2.0	444	97	53	175	78	105	11	4.2	3.5	.92	.37
10	1.7	570	86	48	145	73	78	10	4.2	2.7	.80	.37
11	1.5	871	145	47	136	233	64	9.7	3.8	2.5	.70	.37
12	1.4	535	177	110	165	222	55	10	3.5	2.3	.70	.37
13	1.2	440	386	321	142	225	48	9.1	3.5	2.1	.70	.37
14	1.2	329	314	732	121	165	42	9.1	3.5	2.1	.70	.37
15	1.1	233	227	1,410	60	130	37	8.5	3.5	1.7	.80	.37
16	1.1	306	177	2,070	130	193	34	8.5	3.5	1.9	.80	.37
17	1.1	272	250	906	121	82	31	10	3.5	1.9	.80	.37
18	1.1	310	195	868	423	67	29	9.1	3.5	1.9	.80	.37
19	1.1	183	155	684	1,120	60	26	8.0	6.1	1.9	.80	.37
20	1.1	171	221	370	761	53	24	7.5	5.2	1.9	.80	.37
21	1.8	128	473	327	780	45	22	7.0	4.7	1.7	.70	.37
22	58	112	321	441	630	41	21	7.0	3.8	1.5	.80	.37
23	155	94	233	387	522	33	20	7.0	3.5	1.3	.80	.37
24	39	91	186	260	435	33	20	6.5	3.5	1.3	.80	.37
25	20	81	147	242	370	33	19	6.5	3.3	1.3	.80	.37
26	12	72	136	221	441	28	20	6.1	3.3	1.3	.70	.37
27	9.1	68	155	193	370	78	18	8.1	3.0	1.3	.52	.44
28	7.5	94	160	274	1,230	269	17	5.6	2.7	1.2	.52	.44
29	6.4	192	310	193	-----	1,660	16	5.6	2.7	1.1	.52	.48
30	5.6	712	208	142	-----	946	15	5.6	2.7	.92	.52	.52
31	5.2	-----	163	251	-----	622	-----	5.2	-----	.80	.60	-----
TOTAL	346.14	7,131.5	6,884	11,250	10,231	7,539	2,727	276.7	118.2	69.72	24.12	12.62
MEAN	11.2	238	222	363	365	243	90.9	8.93	3.94	1.93	.78	.42
MAX	155	871	660	2,070	1,230	1,660	170	14	6.1	3.5	1.3	.60
MIN	.83	4.2	86	47	60	26	15	5.2	2.7	.80	.52	.37
AC-FT	687	14,150	13,650	22,310	20,290	14,950	5,410	549	234	118	48	25
CAL YR 1973	TOTAL	27,923.16	MEAN	76.5	MAX	1,030	MIN	.52	AC-FT	55,320		
WTR YR 1974	TOTAL	46,600.00	MEAN	128	MAX	2,070	MIN	.37	AC-FT	92,430		

PEAK DISCHARGE (BASE, 600 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-5	1130	5.71	860	1-22	1730	5.68	698
11-9	1715	6.33	1,250	2-18	2215	6.93	1,570
11-30	2030	5.94	1,060	2-28	1200	8.31	2,480
12-12	2330	5.27	728	3-29	2215	8.81	2,830
12-21	0515	5.12	650	4-1	0130	6.45	1,250
1-16	1200	8.60	2,680				

11475000 EEL RIVER AT FORT SEWARD, CALIF.

LOCATION.--Lat 40°13'05", long 123°37'54", in SE¼NE¼ sec.8, T.3 S., R.5 E., Humboldt County, on right bank at downstream side of bridge, 1.0 mi (1.6 km) southeast of Fort Seward, 1.9 mi (3.1 km) upstream from Dobbyn Creek, and 11.8 mi (19.0 km) northeast of Garberville.

DRAINAGE AREA.--2,107 mi² (5,457 km²).

PERIOD OF RECORD.--September 1955 to current year. Prior to October 1965, published as "at Alderpoint."

GAGE.--Water-stage recorder. Datum of gage is 217.26 ft (66.221 m) above mean sea level. Prior to Dec. 22, 1964, at site 7.5 mi (12.1 km) upstream at datum 46.55 ft (14.188 m) higher. Feb. 2 to Sept. 30, 1965, at site 7.7 mi (12.4 km) upstream at datum 49.42 ft (15.063 m) higher.

AVERAGE DISCHARGE.--19 years, 4,998 ft³/s (141.5 m³/s), 3,621,000 acre-ft/yr (4.46 km³/yr).

EXTREMES.--Current year: Maximum discharge, 281,000 ft³/s (7,960 m³/s) Jan. 16 (gage height, 56.75 ft or 17.297 m); minimum daily, 28 ft³/s (0.79 m³/s) Sept. 25-30.
Period of record: Maximum discharge, 561,000 ft³/s (15,900 m³/s) Dec. 22, 1964 (gage height, 87.2 ft or 26.58 m, from floodmarks, site and datum then in use), from rating curve extended above 110,000 ft³/s (3,120 m³/s) on basis of slope-area measurement at gage height 72.5 ft (22.10 m); minimum daily, 10 ft³/s (0.28 m³/s) Aug. 30 to Sept. 5, 1964.

REMARKS.--Records good. Flow slightly regulated by Lake Pillsbury 99 mi (159 km) upstream (see sta 11470000) and by diversion through Potter Valley powerhouse (see sta 11471000). Records of chemical analyses, water temperatures, sediment discharge, and sediment and turbidity data for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	373	63,400	14,600	12,800	44,600	67,500	3,140	1,030	243	102	52
2	74	344	33,800	11,500	9,970	36,700	49,200	3,150	984	224	99	52
3	70	332	21,000	9,430	7,890	23,000	27,600	3,020	984	214	99	52
4	68	324	16,000	8,080	6,820	16,100	19,800	2,960	977	215	99	47
5	66	6,620	12,400	7,000	6,000	12,800	14,600	2,870	923	205	99	44
6	69	10,900	11,500	6,200	5,270	11,000	12,800	2,880	900	192	99	44
7	94	10,400	10,900	5,520	4,830	11,100	10,100	2,940	923	188	95	44
8	194	15,600	11,600	4,930	4,470	10,200	8,640	3,150	927	188	92	42
9	282	14,500	9,310	4,400	4,120	9,970	9,760	3,010	729	219	95	39
10	239	34,600	7,660	3,940	3,830	8,100	8,620	2,620	666	477	99	30
11	218	60,700	7,860	3,520	3,590	11,500	7,270	2,340	618	371	92	37
12	159	60,000	9,520	5,000	3,570	15,300	6,680	2,230	580	214	85	34
13	130	39,900	17,200	13,400	4,020	14,400	6,430	2,100	560	243	79	34
14	115	33,100	17,900	25,700	3,570	11,400	6,030	1,920	530	219	76	34
15	105	23,200	13,500	92,900	3,110	9,840	5,660	1,820	494	201	73	34
16	106	37,000	10,800	231,000	3,680	8,930	5,320	1,730	464	184	70	34
17	105	33,900	12,300	126,000	5,110	8,280	5,000	1,660	443	175	68	32
18	94	29,800	13,700	62,600	6,600	7,830	4,910	1,610	426	171	68	32
19	94	19,400	10,500	63,900	27,500	7,310	4,720	1,520	431	163	65	32
20	96	16,000	10,400	40,600	15,700	6,620	4,040	1,440	454	143	62	32
21	103	14,900	28,200	27,900	11,500	6,050	3,750	1,310	450	147	62	32
22	1,660	11,800	29,300	20,800	10,700	5,700	3,620	1,210	420	131	60	32
23	8,470	9,610	19,200	16,600	8,380	5,310	3,580	1,170	370	117	60	30
24	5,470	8,640	15,500	14,300	7,160	4,930	3,480	1,170	350	110	60	30
25	2,300	7,100	13,300	12,400	6,310	4,750	3,620	1,170	330	136	60	23
26	1,500	6,620	11,700	11,000	6,230	5,780	3,690	1,250	310	132	60	24
27	978	6,070	16,500	9,660	6,750	6,130	3,660	1,380	280	124	57	28
28	712	7,140	20,700	8,590	22,100	14,400	3,390	1,440	274	116	54	28
29	581	11,600	32,700	7,720	-----	66,400	2,970	1,370	273	113	52	28
30	498	31,800	27,700	6,880	-----	165,000	2,980	1,260	263	104	52	28
31	424	-----	18,800	7,840	-----	58,300	-----	1,110	-----	106	52	-----
TOTAL	25,154	562,273	554,950	883,910	221,880	627,780	317,420	61,990	17,302	5,955	2,345	1,082
MEAN	811	18,740	17,900	28,510	7,924	20,250	10,580	2,000	577	192	75.6	36.1
MAX	8,470	60,700	63,400	231,000	27,500	165,000	67,500	3,150	1,030	477	102	52
MTN	66	324	7,660	3,520	3,110	4,750	2,970	1,110	263	116	52	28
AC-FT	49,890	1,115M	1,101M	1,753M	440,100	1,245M	629,630	123,000	34,320	11,810	4,650	2,150

CAL YR 1973 TOTAL 2,529,601 MEAN 6,930 MAX 69,600 MIN 26 AC-FT 5,017,000
WTR YR 1974 TOTAL 3,281,941 MEAN 8,992 MAX 231,000 MIN 28 AC-FT 6,510,000

PEAK DISCHARGE (BASE, 41,000 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-11	1515	29.91	74,500	1-16	1600	56.75	281,000
11-16	1715	24.67	47,400	2-28	2245	27.65	55,900
12-1	0630	30.15	75,900	3-30	0400	50.08	221,000
12-29	1730	24.12	44,600	4-1	1745	32.07	81,400

11475100 DOBBYN CREEK NEAR FORT SEWARD, CALIF.

LOCATION.--Lat 40°14'14", long 123°38'05", in NW¼NE¼ sec.5, T.3 S., R.5 E., Humboldt County, on left bank at downstream side of county road bridge, 0.2 mi (0.3 km) upstream from Conley Creek, 1.2 mi (1.9 km) northeast of Fort Seward, and 1.6 mi (2.6 km) upstream from mouth.

DRAINAGE AREA.--61.4 mi² (159.0 km²).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 250 ft (76 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 7,900 ft³/s (224 m³/s) Mar. 30 (gage height, 10.48 ft or 3.194 m), from rating curve extended above 1,200 ft³/s (34.0 m³/s); minimum daily, 7.5 ft³/s (0.21 m³/s) Sept. 18-22, 24-26.

Period of record: Maximum discharge, 10,200 ft³/s (289 m³/s) Dec. 17, 1972 (gage height, 11.04 ft or 3.365 m), from rating curve extended above 1,200 ft³/s (34.0 m³/s); minimum daily, 6.6 ft³/s (0.19 m³/s) Sept. 13-18, 1973.

REMARKS.--Records fair. No regulation or diversion above station. Records of water temperatures and sediment discharge for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	28	1,600	346	278	1,310	3,930	102	42	22	13	11
2	10	25	1,000	264	214	1,080	2,120	99	41	22	13	11
3	10	22	640	232	202	838	1,210	91	39	22	11	9.8
4	9.6	33	410	196	208	838	883	88	39	22	11	9.8
5	9.6	1,300	230	174	185	743	794	83	41	20	14	9.8
6	22	1,010	320	152	169	838	682	86	39	20	13	9.8
7	42	878	450	136	153	643	666	83	37	19	11	9.8
8	24	681	370	121	142	238	616	78	36	33	11	9.8
9	20	1,500	295	100	135	147	490	75	35	31	11	9.4
10	17	1,990	240	90	125	126	347	73	34	22	10	9.0
11	16	3,680	275	117	115	473	285	76	32	20	10	9.0
12	15	1,780	310	179	102	1,370	254	72	31	19	10	9.0
13	15	1,340	620	537	110	2,110	222	68	30	18	10	8.6
14	14	1,240	450	1,910	100	1,380	200	68	31	18	10	8.6
15	13	770	330	3,390	98	1,180	183	66	30	16	11	8.6
16	13	1,060	560	5,080	190	1,000	190	64	29	16	11	8.6
17	13	781	1,000	3,740	160	847	167	64	31	16	11	7.9
18	11	548	580	2,050	482	732	183	64	31	17	11	7.5
19	11	346	396	1,020	656	590	155	64	37	17	10	7.5
20	12	404	892	404	363	484	148	58	31	17	10	7.5
21	21	379	1,370	208	346	431	143	58	29	17	10	7.5
22	174	300	838	185	404	371	127	55	30	17	10	7.5
23	548	271	572	175	424	324	127	53	30	17	10	7.9
24	185	307	443	165	433	278	120	52	31	17	10	7.5
25	109	250	433	158	414	346	125	54	27	17	9.8	7.5
26	66	214	387	150	572	271	131	49	28	16	9.4	7.5
27	51	185	838	147	548	742	120	47	26	16	8.6	7.9
28	42	400	838	143	1,050	880	118	45	24	15	8.6	7.9
29	38	1,050	1,620	140	-----	4,150	120	44	24	13	8.6	8.3
30	33	3,000	797	170	-----	4,540	106	42	23	13	9.8	8.6
31	30	-----	473	220	-----	2,860	-----	41	-----	13	10	-----
TOTAL	1,604.2	25,772	19,577	22,099	8,378	32,160	14,962	2,062	968	578	326.8	260.1
MEAN	51.7	859	632	713	299	1,037	499	66.5	32.3	18.6	10.5	8.67
MAX	548	3,680	1,620	5,080	1,050	4,540	3,930	102	42	33	14	11
MIN	9.6	22	230	90	98	126	106	41	23	13	8.6	7.5
AC-FT	3,180	51,120	38,830	43,830	16,620	63,790	29,680	4,090	1,920	1,150	648	516

CAL YR 1973 TOTAL 109,324.4 MEAN 300 MAX 3,920 MIN 6.6 AC-FT 216,800
WTR YR 1974 TOTAL 128,747.1 MEAN 353 MAX 5,080 MIN 7.5 AC-FT 255,400

		PEAK DISCHARGE (BASE, 4,000 FT ³ /S)					
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-11	1515	9.89	5,560	3-30	0030	10.48	7,900
11-30	unknown	--	4,500	4-1	1130	9.82	5,320
1-15	0100	10.43	7,700				

EEL RIVER BASIN

437

11475560 ELDER CREEK NEAR BRANSCOMB, CALIF.
(Hydrologic bench-mark station)

LOCATION.--Lat 39°43'47", long 123°38'34", in NW¼NE¼ sec.29, T.22 N., R.16 W., Mendocino County, on right bank 0.2 mi (0.3 km) upstream from mouth, and 5.3 mi (8.5 km) north of Branscomb.
Rain gage No. 1: Lat 39°43'50", long 123°38'07", in NW¼NW¼ sec.28, T.22 N., R.16 W., altitude, 1,440 ft (439 m) at site 0.5 mi (0.8 km) east of gaging station.
Rain gage No. 2: Lat 39°42'36", long 123°37'03", in NW¼SW¼ sec.34, T.22 N., R.16 W., altitude, 2,680 ft (817 m) at site 2 mi (3 km) southeast of gaging station.

DRAINAGE AREA.--6.50 mi² (16.84 km²).

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-state recorder and two recording and storage-type precipitation gages. Datum of gage is 1,391.08 ft (424.001 m) above mean sea level.

AVERAGE DISCHARGE.--7 years, 32.4 ft³/s (0.918 m³/s), 23,470 acre-ft/yr (28.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,280 ft³/s (64.6 m³/s) Mar. 29 (gage height, 9.77 ft or 2.978 m), from rating curve extended as explained below; minimum daily, 0.67 ft³/s (0.019 m³/s) Sept. 20-24.

Period of record: Maximum discharge, 2,280 ft³/s (64.6 m³/s) Mar. 29, 1974 (gage height, 9.77 ft or 2.978 m), from rating curve extended above 560 ft³/s (15.9 m³/s) on basis of slope-area measurements at gage height 9.40 ft (2.865 m) and 11.41 ft (3.478 m); minimum daily, 0.50 ft³/s (0.014 m³/s) Sept. 28-30, Oct. 4-17, 1970.

Flood of Dec. 22, 1964, reached a stage of 11.41 ft (3.478 m), from floodmarks (discharge, 3,660 ft³/s or 104 m³/s, by slope-area measurement of maximum flow).

REMARKS.--Records fair. No regulation; small diversion above station for domestic use. Records of chemical analyses, water temperatures, and sediment discharge for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	8.1	260	94	46	238	381	14	5.9	2.8	2.0	1.2
2	1.6	7.6	193	80	44	176	220	13	5.6	2.6	2.0	1.2
3	1.4	7.6	140	72	41	131	137	13	5.4	2.6	1.9	1.1
4	1.4	7.8	111	63	38	91	96	12	5.2	2.6	1.9	1.1
5	1.4	7.5	91	57	36	74	73	12	5.2	2.5	2.2	1.1
6	3.4	7.2	92	53	34	61	58	12	5.0	2.5	2.2	1.1
7	1.6	11.6	81	48	31	55	48	11	5.0	2.5	2.0	.94
8	5.2	15.0	80	45	29	53	42	11	4.8	4.8	1.9	.94
9	4.4	19.3	74	41	27	49	40	11	4.8	4.6	1.9	.94
10	3.4	26.2	66	39	26	41	38	10	4.6	3.3	1.8	.94
11	3.4	39.3	63	37	24	75	35	10	4.4	2.9	1.8	.94
12	3.2	22.8	59	49	25	89	34	9.8	4.2	2.8	1.8	.94
13	3.2	23.8	91	105	23	86	31	9.5	4.0	2.6	1.8	.94
14	3.4	23.3	102	21.3	21	81	29	9.3	4.0	2.5	1.6	.94
15	3.2	191	94	531	20	71	27	9.0	4.0	2.5	1.6	.94
16	3.2	231	84	1,470	25	63	26	8.7	4.0	2.3	1.6	.80
17	3.4	200	94	539	22	56	24	8.7	4.0	2.3	1.5	.80
18	3.4	176	91	282	49	51	23	8.5	3.8	2.3	1.5	.80
19	3.4	131	94	245	150	46	22	8.2	3.8	2.2	1.5	.80
20	3.5	114	81	178	105	41	21	8.0	3.8	2.2	1.5	.67
21	5.2	79	137	123	87	38	20	7.7	3.8	2.0	1.4	.67
22	31	34	144	89	73	35	19	7.3	3.6	1.9	1.4	.67
23	44	71	121	71	63	33	18	7.0	3.5	1.9	1.4	.67
24	24	61	102	60	58	31	18	6.8	3.5	1.9	1.4	.67
25	15	58	86	52	51	32	18	6.6	3.3	1.8	1.4	.80
26	13	53	81	47	52	29	18	6.6	3.1	1.8	1.2	.80
27	11	42	86	43	48	52	16	6.6	3.1	1.6	1.2	.80
28	10	55	91	39	193	81	15	6.3	3.1	1.6	1.2	.80
29	9.4	145	156	36	-----	891	15	6.1	2.9	1.6	1.2	.80
30	8.6	215	146	33	-----	838	14	6.1	2.8	2.0	1.2	.80
31	8.3	-----	118	41	-----	238	-----	5.9	-----	2.0	1.2	-----
TOTAL	245.0	3,955.1	3,289	4,475	1,441	3,926	1,576	281.7	124.2	75.5	50.2	26.61
MEAN	7.93	132	106	157	51.5	127	52.5	9.09	4.14	2.44	1.62	.89
MAX	44	303	260	1,470	193	891	381	14	5.9	4.8	2.2	1.2
MIN	1.4	7.6	59	33	20	29	14	5.9	2.8	1.6	1.2	.67
AC-FT	486	7,949	6,520	9,670	2,860	7,790	3,130	559	246	150	100	53
(a)	8.33	21.69	13.99	17.20	12.13	23.47	4.97	.13	.37	1.45	.41	0
(b)	9.85	26.38	17.72	17.75	13.15	26.59	4.93	.20	.38	2.17	.41	0
CAL YR 1973	TOTAL 15,152.46	MEAN 41.5	MAX 393	MIN .81	AC-FT 30,050							
WTR YR 1974	TOTAL 12,865.31	MEAN 54.4	MAX 1,470	MIN .67	AC-FT 39,400							

PEAK DISCHARGE (BASE, 450 FT³/S, REVISED)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	a Precipitation, in inches, at rain gage				
11-11	1145	6.64	492	3-29	2230	9.77	2,280	No. 1.				
1-16	1300	9.40	1,980	4-1	1115	6.62	485	b Precipitation, in inches, at rain gage				
								No. 2.				

EEL RIVER BASIN

11475700 TENMILE CREEK NEAR LAYTONVILLE, CALIF.

LOCATION.--Lat 39°45'45", long 123°32'30", in NW¼ sec.16, T.22 N., R.15 W., Mendocino County, on right bank 0.1 mi (0.2 km) downstream from Step Gulch Creek, and 6.0 mi (9.7 km) northwest of Laytonville.

DRAINAGE AREA.--50.3 mi² (130.3 km²).

PERIOD OF RECORD.--October 1957 to September 1974 (discontinued as a continuous-record station; converted to a crest-stage partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 1,427.42 ft (435.078 m) above mean sea level.

AVERAGE DISCHARGE.--17 years, 176 ft³/s (4.984 m³/s), 127,500 acre-ft/yr (157 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 14,200 ft³/s (402 m³/s) Mar. 29 (gage height, 16.76 ft or 5.108 m), from rating curve extended above 2,700 ft³/s (76.5 m³/s) on basis of slope-area measurement at gage height 14.96 ft (4.560 m); minimum daily, 0.59 ft³/s (0.017 m³/s) Sept. 22-24.

Period of record: Maximum discharge, 14,500 ft³/s (411 m³/s) Dec. 22, 1964 (gage height, 21.3 ft or 6.49 m, from floodmarks), from rating curve extended above 4,300 ft³/s (122 m³/s) on basis of slope-area measurement at gage height 22.9 ft (6.98 m); no flow at times.

Flood of Dec. 22, 1955, reached a stage of 22.9 ft (6.98 m), from floodmarks (discharge, 16,300 ft³/s or 462 m³/s by slope-area measurement of maximum flow).

REMARKS.--Records good. No regulation or diversion above station.

REVISIONS (WATER YEARS).--WRD Calif. 1973: 1966-72.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	11	2,030	314	444	1,780	3,240	49	18	6.3	2.1	1.5
2	3.2	10	811	243	247	907	966	46	17	6.0	2.1	1.3
3	3.2	9.9	485	220	193	538	559	44	16	6.2	2.0	1.2
4	3.1	11	353	194	163	373	401	42	15	5.5	1.9	1.1
5	3.1	1,360	303	191	142	296	394	41	14	5.0	1.9	1.1
6	6.3	445	327	181	126	258	307	39	14	5.1	2.9	1.1
7	22	1,110	405	164	113	323	244	38	14	6.0	2.6	1.0
8	10	682	340	146	101	232	234	35	14	30	2.0	.90
9	9.1	2,540	259	128	92	190	381	33	13	29	1.7	.91
10	9.0	1,850	213	114	85	208	245	32	13	14	1.6	.95
11	6.4	3,370	367	120	77	806	200	30	13	9.8	1.5	.97
12	5.0	1,890	457	441	127	563	174	29	12	8.4	1.4	.95
13	4.8	1,690	1,160	901	96	379	148	28	12	7.3	1.4	.90
14	4.4	1,160	760	2,860	78	295	128	28	11	6.5	1.4	.90
15	4.2	826	437	5,840	72	242	114	27	11	6.0	1.6	.88
16	4.3	1,790	359	9,060	182	203	102	26	11	5.9	1.6	.90
17	4.1	906	612	1,800	109	173	91	28	11	5.7	1.5	.85
18	3.8	776	392	2,060	1,270	150	88	29	11	5.4	1.5	.75
19	3.5	432	298	1,230	1,380	130	78	28	12	5.0	1.6	.76
20	4.2	602	612	583	404	114	69	26	14	4.6	1.7	.76
21	8.7	417	1,860	323	476	100	64	24	12	4.2	1.6	.69
22	223	324	844	255	338	92	60	23	10	3.9	1.4	.59
23	560	263	521	216	247	84	57	25	9.7	3.6	1.4	.59
24	105	284	422	190	200	77	63	23	9.4	3.5	1.2	.59
25	48	239	325	170	175	148	78	21	9.1	3.3	1.1	.62
26	30	204	468	155	284	98	104	20	8.2	2.9	1.1	.67
27	23	226	649	139	206	697	70	20	9.5	2.4	1.1	.64
28	18	467	638	127	2,990	731	60	19	8.4	2.6	1.0	.69
29	16	921	1,330	117	-----	9,350	55	18	7.7	2.9	1.1	.69
30	14	2,020	620	109	-----	4,210	52	18	6.9	2.6	1.3	.77
31	13	-----	414	527	-----	1,660	-----	18	-----	2.4	1.5	-----
TOTAL	1,175.5	26,835.9	19,071	29,118	10,417	25,407	8,826	907	356.9	212.0	49.8	26.22
MEAN	37.9	895	615	939	372	820	294	29.3	11.9	6.84	1.61	.87
MAX	560	3,370	2,030	9,060	2,990	9,350	3,240	49	18	30	2.9	1.5
MIN	3.1	9.9	213	109	72	77	52	18	6.9	2.4	1.0	.59
AC-FT	2,330	53,230	37,830	57,760	20,660	50,390	17,510	1,800	708	421	99	52

CAL YR 1973 TOTAL 93,464.57 MEAN 256 MAX 3,370 MIN .97 AC-FT 185,400
WTR YR 1974 TOTAL 122,402.32 MEAN 335 MAX 9,350 MIN .59 AC-FT 242,800

PEAK DISCHARGE (BASE, 5,000 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-11	0630	10.53	5,540	2-28	1115	11.16	6,340
1-16	0700	14.96	11,500	3-29	2200	16.76	14,200
2-18	2315	10.49	5,490	4-1	0130	10.12	5,010

11475800 SOUTH FORK EEL RIVER AT LEGGETT, CALIF.

LOCATION.--Lat 39°52'29", long 123°43'10", in NE¼SE¼ sec.3, T.23 N., R.17 W., Mendocino County, on right bank near Standish-Hickey State Park, 0.2 mi (0.3 km) upstream from Rock Creek, and 0.7 mi (1.1 km) northwest of Leggett.

DRAINAGE AREA.--248 mi² (642 km²).

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 693.32 ft (211.324 m) above mean sea level.

AVERAGE DISCHARGE.--9 years, 1,019 ft³/s (28,86 m³/s), 738,300 acre-ft/yr (910 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 60,500 ft³/s (1,710 m³/s) Jan. 16 (gage height, 23.01 ft or 7.013 m); minimum daily, 19 ft³/s (0.54 m³/s) Sept. 26-30.

Period of record: Maximum discharge, 72,700 ft³/s (2,060 m³/s) Jan. 4, 1966 (gage height, 25.4 ft or 7.74 m, from floodmarks), from rating curve extended above 21,000 ft³/s (595 m³/s) on basis of slope-area measurement at gage height 26.13 ft (7.964 m); minimum daily, 15 ft³/s (0.42 m³/s) Oct. 15, 1966, Sept. 30 to Oct. 17, 1970.

Flood of Dec. 22, 1964, reached a stage of 26.13 ft (7.964 m), from floodmarks (discharge, 78,700 ft³/s or 2,230 m³/s by slope-area measurement of maximum flow).

REMARKS.--Records good. No regulation or diversion above station. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	147	9,980	2,330	2,060	9,640	21,400	353	137	67	36	29
2	39	174	5,840	1,880	1,450	6,530	9,260	334	133	64	35	29
3	37	165	3,640	1,650	1,210	4,720	4,840	425	127	63	34	27
4	36	166	2,740	1,450	1,040	3,370	3,260	308	124	62	34	27
5	34	2,740	2,110	1,350	923	2,690	2,520	300	121	60	34	25
6	62	1,970	1,790	1,250	835	2,360	2,080	287	110	60	40	27
7	286	3,810	1,830	1,170	766	2,340	1,670	279	116	59	49	25
8	184	4,690	1,870	1,100	706	2,070	1,460	267	112	112	35	25
9	123	7,230	1,530	1,020	654	1,840	1,830	255	109	172	34	25
10	95	9,240	1,380	964	610	1,710	1,500	248	107	115	33	25
11	81	15,100	1,510	934	573	3,290	1,290	240	104	88	33	24
12	71	10,600	1,430	1,430	610	3,620	1,160	233	99	75	33	23
13	62	7,560	4,130	2,800	628	3,160	1,040	226	98	69	32	23
14	56	6,640	3,760	7,450	538	2,570	938	218	98	64	32	22
15	53	4,610	2,880	22,300	504	2,180	849	215	98	61	31	23
16	49	6,640	2,330	45,400	719	1,920	779	204	96	57	30	22
17	48	5,050	2,710	16,000	667	1,710	719	212	96	57	31	22
18	46	4,450	2,360	8,520	2,300	1,530	693	212	96	55	31	22
19	46	3,340	2,020	8,150	10,200	1,390	635	203	105	54	31	21
20	51	3,190	2,220	4,420	3,770	1,250	579	196	111	51	31	21
21	87	2,520	5,400	3,150	3,090	1,140	544	190	103	49	31	20
22	454	1,920	4,340	2,350	2,410	1,070	509	183	93	47	30	20
23	1,850	1,510	3,290	1,930	1,870	1,010	487	177	87	45	30	20
24	804	1,380	2,680	1,630	1,570	954	471	174	83	41	29	20
25	452	1,190	2,260	1,380	1,320	1,040	471	167	80	40	29	20
26	327	1,020	2,220	1,190	1,770	984	532	162	79	39	28	19
27	291	1,000	2,790	1,020	1,340	1,660	455	156	76	36	28	19
28	263	1,360	3,040	923	9,870	3,990	414	150	74	39	26	19
29	239	3,030	6,070	849	-----	28,000	390	145	72	38	26	19
30	219	8,520	4,420	779	-----	31,800	371	142	70	38	27	19
31	202	-----	3,110	1,540	-----	9,750	-----	140	-----	36	27	-----
TOTAL	7,091	121,512	97,900	148,309	54,003	141,328	63,146	6,905	3,023	1,915	994	681
MEAN	229	4,050	3,155	4,784	1,929	4,559	2,105	223	101	61.8	31.7	22.7
MAX	1,850	15,100	9,980	45,400	10,200	31,800	21,400	353	137	172	40	29
MIN	34	165	1,380	779	504	954	371	140	70	36	26	19
AC-FT	14,060	241,000	194,000	294,200	107,100	280,300	125,300	13,700	6,000	3,800	1,950	1,350

CAL YR 1973 TOTAL 482,291 MEAN 1,321 MAX 15,100 MIN 22 AC-FT 956,600
WTR YR 1974 TOTAL 646,697 MEAN 1,772 MAX 45,400 MIN 19 AC-FT 1,283,000

PEAK DISCHARGE (BASE, 8,500 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-11	1115	14.93	18,800	2-19	0245	13.98	19,000
12-1	0315	12.62	12,200	2-28	1615	13.93	18,800
12-29	0945	10.80	9,920	3-30	0130	22.86	59,600
1-16	0815	23.01	60,500	4-1	1030	16.55	28,500

11476500 SOUTH FORK EEL RIVER NEAR MIRANDA, CALIF.

LOCATION.--Lat 40°10'55", long 123°46'30", in NW¼ sec.30, T.3 S., R.4 E., Humboldt County, on right bank at Sylvandale Campgrounds on U.S. Highway 101, 0.5 mi (0.8 km) upstream from Rocky Glen Creek, 4.3 mi (6.9 km) southeast of Miranda, and 20 mi (32 km) upstream from mouth.

DRAINAGE AREA.--537 mi² (1,391 km²).

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 217.57 ft (66.315 m) above mean sea level. Prior to Nov. 2, 1940, nonrecording gage at site 200 ft (61 m) upstream at datum 0.8 ft (0.24 m) higher. Nov. 2, 1940, to Oct. 31, 1944, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--35 years, 1,958 ft³/s (55.45 m³/s), 1,419,000 acre-ft/yr (1.75 km³/yr).

EXTREMES.--Current year: Maximum discharge, 122,000 ft³/s (3,460 m³/s) Jan. 16 (gage height, 34.57 ft or 10.537 m), from rating curve extended as explained below; minimum daily, 34 ft³/s (0.96 m³/s) Sept. 28, 29. Period of record: Maximum discharge, 199,000 ft³/s (5,640 m³/s) Dec. 22, 1964 (gage height, 46.0 ft or 14.02 m, from floodmarks), from rating curve extended above 53,000 ft³/s (1,500 m³/s) on basis of slope-area measurement at gage height 42.7 ft (13.01 m); minimum observed, 9 ft³/s (0.25 m³/s) Oct. 17, 1944.

REMARKS.--Records good. Occasional storage and release for recreation use during summer months at Benbow Dam. No diversion above station. Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1395: Drainage area. WRD Calif. 1971: 1955.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	240	27,600	4,940	4,810	21,200	41,100	542	360	145	80	49
2	75	217	14,200	3,900	3,240	14,800	23,300	611	360	142	77	49
3	72	204	8,710	3,400	2,570	9,440	12,300	584	370	149	75	48
4	70	224	6,240	2,900	2,170	6,400	7,880	563	354	136	53	49
5	68	6,700	4,860	2,570	1,870	4,950	6,130	544	365	75	63	48
6	79	7,480	4,230	2,390	1,620	4,210	5,060	524	376	105	68	46
7	171	7,060	4,300	2,150	1,430	4,230	3,970	505	360	117	77	46
8	345	11,300	4,670	1,980	1,270	3,470	3,370	480	354	161	74	68
9	228	12,700	3,910	1,820	1,130	2,880	3,990	468	314	264	69	91
10	164	23,600	3,370	1,680	1,020	2,550	3,610	450	304	286	68	143
11	133	40,400	3,720	1,580	918	5,490	2,870	438	270	218	66	52
12	115	30,600	3,910	2,880	1,040	6,960	2,680	438	248	178	76	45
13	102	18,700	7,800	7,550	1,070	6,020	2,180	438	240	157	64	40
14	96	15,600	7,650	18,700	866	4,770	1,430	438	235	147	62	40
15	91	11,300	5,970	59,000	771	3,890	1,720	438	235	136	61	41
16	85	14,500	4,950	110,000	998	3,180	1,580	398	231	125	60	43
17	83	11,600	6,640	50,900	1,130	2,630	1,430	387	231	123	54	41
18	81	10,800	5,820	20,900	2,370	2,220	1,350	347	241	120	54	41
19	79	7,450	4,660	19,400	16,600	1,890	1,240	376	284	118	59	41
20	89	6,940	5,410	11,500	7,410	1,640	1,110	365	294	115	57	40
21	136	6,210	12,800	7,700	5,530	1,440	1,030	328	266	112	51	40
22	2,200	5,290	10,400	5,590	4,730	1,290	470	257	261	105	44	40
23	5,420	4,380	7,450	4,400	3,560	1,180	927	354	240	99	53	40
24	2,420	4,000	6,010	3,550	2,940	1,080	869	365	231	97	53	38
25	1,100	3,450	4,820	2,850	2,470	1,120	836	381	224	93	52	37
26	698	3,190	4,260	2,350	2,570	1,150	902	354	191	49	52	37
27	542	2,940	5,750	1,990	2,650	2,180	836	365	154	46	50	37
28	445	3,790	6,190	1,730	15,200	6,510	749	370	154	45	48	34
29	365	7,900	10,700	1,520	-----	38,600	704	370	152	45	48	34
30	305	25,200	9,200	1,340	-----	13,000	660	365	148	44	49	37
31	264	-----	6,480	2,580	-----	25,600	-----	360	-----	42	49	-----
TOTAL	16,202	303,965	222,680	365,740	43,353	265,970	136,983	13,333	8,042	4,044	1,481	1,435
MEAN	523	10,130	7,183	11,800	3,355	8,580	4,566	439	268	130	60.7	47.8
MAX	5,420	40,400	27,600	110,000	16,600	13,000	41,100	632	376	286	80	143
MIN	68	204	3,370	1,340	771	1,080	660	257	148	42	48	34
AC-F1	32,140	602,900	441,700	725,400	186,400	527,600	271,700	26,450	15,950	8,020	3,730	2,850

CAL YR 1973 TOTAL 1,073,305 MEAN 2,941 MAX 40,400 MIN 38 AC-F1 2,129,000
WTR YR 1974 TOTAL 1,434,228 MEAN 3,929 MAX 110,000 MIN 34 AC-F1 2,445,000

PEAK DISCHARGE (BASE, 15,000 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-11	1445	21.13	48,100	2-19	0815	15.62	24,400
11-16	1345	13.20	16,400	2-28	2130	16.74	28,800
12-1	0530	18.11	34,500	3-30	0230	33.39	115,000
1-16	1215	34.57	122,000	4-1	1615	19.79	41,600

11476600 BULL CREEK NEAR WEOTT, CALIF.

LOCATION.--Lat 40°21'05", long 124°00'10", in SW¼NW¼ sec.30, T.1 S., R.2 E., Humboldt County, on left bank 0.2 mi (0.3 km) downstream from Albee Creek, 4.5 mi (7.2 km) northwest of Weott, and 4.6 mi (7.4 km) upstream from mouth.

DRAINAGE AREA.--28.1 mi² (72.8 km²).

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 269.36 ft (82.101 m) above mean sea level. Prior to Dec. 22, 1964, water-stage recorder, and Jan. 14 to Aug. 10, 1965, nonrecording gage at site 150 ft (46 m) downstream at datum 8.90 ft (2.713 m) lower.

AVERAGE DISCHARGE.--14 years, 131 ft³/s (3.710 m³/s), 94,910 acre-ft/yr (117 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 5,830 ft³/s (165 m³/s) Jan. 16 (gage height, 12.88 ft or 3.926 m, from floodmarks), from rating curve extended above 1,100 ft³/s (31.2 m³/s); minimum daily, 0.30 ft³/s (0.008 m³/s) Sept. 28.

Period of record: Maximum discharge, 6,520 ft³/s (185 m³/s) Dec. 22, 1964 (gage height, 20.6 ft or 6.28 m, from floodmarks, site and datum then in use), from rating curve extended above 2,100 ft³/s (59.5 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.30 ft³/s (0.008 m³/s) Sept. 28, 1974.

REMARKS.--Records fair. Minor diversions above station for domestic use.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	13	1,300	470	300	1,050	2,620	46	14	5.8	4.0	2.1
2	2.9	13	959	370	198	830	1,530	43	14	5.8	3.4	2.1
3	2.9	13	766	308	161	700	610	41	14	5.2	3.4	1.8
4	3.2	27	531	255	144	640	475	34	14	5.2	3.0	1.8
5	2.9	407	394	225	130	520	354	36	14	5.8	5.8	1.5
6	4.3	502	328	212	119	400	262	35	13	5.2	5.8	1.5
7	5.7	379	336	200	110	317	242	33	13	5.8	4.0	1.3
8	4.1	393	290	192	99	248	221	31	12	11	3.4	1.3
9	4.4	1,000	247	180	91	228	208	30	12	11	3.4	1.3
10	3.8	1,340	218	173	82	195	178	24	12	10	3.0	1.3
11	3.7	1,650	267	165	76	300	159	28	11	9.0	2.5	1.1
12	4.1	1,530	338	220	100	450	144	27	11	9.1	2.1	.67
13	3.4	1,310	432	292	90	300	133	26	12	8.1	2.1	.72
14	3.2	1,120	416	705	76	334	124	26	12	7.3	3.0	.93
15	3.1	1,240	320	1,900	65	291	116	25	12	5.8	2.5	.93
16	2.9	1,340	331	4,900	92	252	104	26	12	5.8	1.4	.93
17	2.3	1,100	661	1,530	82	227	101	24	12	5.8	2.1	.93
18	2.6	1,000	527	1,410	245	205	94	26	13	5.2	2.1	.72
19	3.1	670	403	845	1,150	140	87	23	14	5.2	2.5	.72
20	3.3	605	501	630	595	160	84	22	11	4.0	3.4	.47
21	26	500	1,230	465	413	148	78	21	10	4.6	3.0	.77
22	95	440	449	400	355	134	72	21	9.0	4.6	2.5	.77
23	202	374	609	290	290	122	67	19	9.0	4.0	2.5	.62
24	63	356	436	226	228	116	63	19	8.1	4.0	2.1	.67
25	38	323	379	181	178	132	63	12	7.3	4.6	2.1	.67
26	29	300	378	153	220	121	70	17	7.3	4.0	1.8	.72
27	24	290	420	136	180	420	62	17	7.3	3.4	1.4	.34
28	21	359	465	122	1,150	1,230	56	17	7.3	3.4	1.8	.30
29	14	511	1,410	107	-----	3,250	51	17	6.5	4.0	2.1	.72
30	16	1,310	600	94	-----	3,550	48	16	5.8	4.0	2.1	.77
31	15	-----	550	165	-----	1,290	-----	15	-----	4.0	2.5	-----
TOTAL	617.5	20,441	16,891	17,481	7,059	18,508	8,489	817	329.6	1,49.3	87.6	30.47
MEAN	19.9	683	545	564	252	597	283	26.9	11.6	5.32	2.83	1.02
MAX	202	1,650	1,410	4,900	1,190	3,550	2,620	46	14	11	5.8	2.1
MIN	2.6	13	218	94	65	116	48	15	5.8	3.4	1.8	.30
AC-FIT	1,220	40,640	33,500	34,670	14,000	46,710	16,920	1,620	654	358	174	60

CAL YR 1973 TOTAL 65,527.50 MEAN 180 MAX 1,650 MIN 1.3 AC-FIT 130,000
 WTR YR 1974 TOTAL 90,972.47 MEAN 269 MAX 4,900 MIN .30 AC-FIT 140,400

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-11	1015	9.34	1,920	2-19	unknown	--	1,780
11-15	2145	9.35	1,930	2-28	unknown	--	1,800
11-30	1800	9.67	2,090	3-30	unknown	--	5,600
1-16	0545	12.88	5,830	4-1	unknown	--	3,700

NOTE.--No gage-height record Dec. 26 to Apr. 3, Apr. 13 to May 16.

EEL RIVER BASIN

11477000 EEL RIVER AT SCOTIA, CALIF.
(International Hydrological Decade River Station)

LOCATION.--Lat 40°29'30", long 124°05'55", in SW¼ sec.5, T.1 N., R.1 E., Humboldt County, near center of span in left pier of bridge on U.S. Highway 101, 0.5 mi (0.8 km) north of Scotia, and 6 mi (10 km) upstream from Van Duzen River.

DRAINAGE AREA.--3,113 mi² (8,063 km²).

PERIOD OF RECORD.--October 1910 to current year. Monthly discharge only for some periods and yearly estimates for 1915-16, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 35.50 ft (10.820 m) above mean sea level. Prior to Dec. 12, 1940, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--64 years, 7,396 ft³/s (209.5 m³/s), 5,358,000 acre-ft/yr (6.61 km³/yr).

EXTREMES.--Current year: Maximum discharge, 387,000 ft³/s (11,000 m³/s) Jan. 16 (gage height, 52.31 ft or 15.944 m); minimum daily, 99 ft³/s (2.80 m³/s) Sept. 28-30.
Period of record: Maximum discharge, 752,000 ft³/s (21,300 m³/s) Dec. 23, 1964 (gage height, 72.0 ft or 21.95 m, from floodmarks), from rating curve extended above 220,000 ft³/s (6,230 m³/s) on basis of maximum flow at upstream stations; minimum observed, 10 ft³/s (0.28 m³/s) Aug. 12-14, 1924.

REMARKS.--Records good. Flow slightly regulated by Lake Pillsbury 138 mi (222 km) upstream (see sta 11470000) and by diversion through Potter Valley powerhouse (see sta 11471000). Records of chemical analyses, water temperatures, and sediment discharge for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 931: 1938. WSP 1315-B: 1914-15(M), 1917(M), 1927-28(M), 1936(M), 1939(M).
WSP 1345: Drainage area. WSP 1715: 1959.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	259	1,060	130,000	26,000	18,100	90,100	118,000	4,520	1,560	558	261	147
2	216	925	77,800	19,700	16,000	79,800	108,000	4,570	1,500	531	261	147
3	194	832	44,000	16,200	11,700	51,600	58,600	4,370	1,450	513	248	144
4	169	817	30,200	13,600	9,940	33,500	39,000	4,250	1,470	488	241	142
5	150	9,840	22,600	11,800	8,990	25,300	28,300	4,110	1,440	471	261	137
6	153	32,000	19,600	10,600	8,210	21,100	23,700	3,960	1,380	429	261	137
7	199	21,800	18,900	9,400	7,470	21,300	18,400	4,010	1,390	413	248	135
8	494	35,100	20,800	8,410	6,910	19,800	14,700	4,040	1,350	471	229	132
9	974	32,100	17,500	7,660	6,450	16,600	15,200	4,060	1,260	531	229	130
10	1,000	79,700	14,600	6,980	6,060	14,800	15,500	3,800	1,150	631	216	142
11	759	122,000	14,200	6,340	5,680	19,700	12,900	3,360	1,050	876	216	178
12	610	127,000	18,000	8,720	5,650	33,100	11,300	3,140	971	760	204	186
13	455	86,900	30,000	25,400	6,140	32,200	10,700	2,990	934	641	192	144
14	365	73,100	36,300	56,300	5,760	24,600	10,000	2,730	910	585	189	128
15	303	48,700	27,700	175,000	5,110	20,100	9,340	2,530	865	531	183	121
16	265	66,300	21,300	324,000	5,390	17,400	8,810	2,450	833	513	178	119
17	243	68,900	26,000	225,000	7,330	15,200	8,180	2,370	833	471	176	119
18	235	57,400	29,000	96,800	8,390	13,800	8,030	2,330	812	454	171	119
19	227	38,700	21,400	97,300	52,700	12,700	7,820	2,220	876	437	168	119
20	233	28,000	20,600	66,400	38,200	11,300	6,910	2,110	984	421	166	115
21	401	28,300	56,200	44,900	23,800	10,400	6,360	1,980	922	397	166	110
22	2,560	22,400	64,200	31,600	22,200	9,680	6,030	1,790	887	381	159	110
23	15,700	18,000	39,900	23,800	16,500	9,210	5,940	1,690	801	373	147	108
24	14,300	16,200	30,200	19,100	13,500	8,660	5,730	1,740	729	366	152	106
25	6,230	13,400	24,300	15,800	11,500	8,390	5,620	1,720	689	350	154	104
26	3,960	12,200	20,900	13,300	10,900	9,150	5,730	1,760	670	335	159	104
27	2,840	11,100	26,700	11,200	12,100	10,200	5,730	1,820	631	319	159	101
28	2,130	13,200	37,200	9,790	36,000	27,900	5,450	1,930	603	304	152	99
29	1,720	23,100	51,100	8,930	-----	69,600	4,720	1,880	603	290	149	99
30	1,500	71,500	58,000	8,120	-----	270,000	4,520	1,820	576	282	149	99
31	1,270	-----	36,000	9,340	-----	118,000	-----	1,670	-----	275	149	-----
TOTAL	60,114	1,160.6M	1,085.2M	1,407.5M	386,680	1,125.2M	589,220	87,720	30,129	14,397	5,993	3,781
MEAN	1,939	38,690	35,010	45,400	13,810	36,300	19,640	2,830	1,004	464	193	126
MAX	15,700	127,000	130,000	324,000	52,700	270,000	118,000	4,570	1,560	876	261	186
MIN	150	817	14,200	6,340	5,110	8,390	4,520	1,670	576	275	147	99
AC-FT	119,200	2,302M	2,152M	2,792M	767,000	2,232M	1,169M	174,000	59,760	28,560	11,890	7,500

CAL YR 1973 TOTAL 4,630,893 MEAN 12,690 MAX 130,000 MIN 82 AC-FT 9,185,000
WTR YR 1974 TOTAL 5,956,488 MEAN 16,320 MAX 324,000 MIN 99 AC-FT 11,810,000

PEAK DISCHARGE (BASE, 72,000 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-12	0015	33.51	149,000	1-16	2245	52.31	387,000
11-16	2115	26.70	86,400	2-19	1545	24.76	74,900
12-1	1145	32.94	143,000	3-1	0345	27.93	101,000
12-21	2345	25.02	76,200	3-30	0915	47.74	324,000
12-29	2345	25.20	77,600				

11477500 VAN DUZEN RIVER NEAR DINSMORES, CALIF.

LOCATION.--Lat 40°29'05", long 123°39'25", in NE¼NW¼ sec.7, T.1 N., R.5 E., Humboldt County, on right bank 10 ft (3 m) upstream from private road bridge, 0.3 mi (0.5 km) upstream from South Fork, and 2.8 mi (4.5 km) west of Dinsmores.

DRAINAGE AREA.--85.1 mi² (220.4 km²).

PERIOD OF RECORD.--August 1953 to September 1958, October 1963 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 1,996.88 ft (608.649 m) above mean sea level. Aug. 19, 1953, to Sept. 30, 1958, at site 1.7 mi (2.7 km) upstream at different datum.

AVERAGE DISCHARGE.--16 years, 398 ft³/s (11.27 m³/s), 288,400 acre-ft/yr (356 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 17,500 ft³/s (496 m³/s) Mar. 29 (gage height, 15.43 ft or 4.703 m, in gage well, 17.54 ft or 5.346 m, from outside gage), from rating curve extended above 5,300 ft³/s (150 m³/s) as explained below; minimum daily, 2.5 ft³/s (0.071 m³/s) Sept. 25-30.
Period of record: Maximum discharge, 27,000 ft³/s (765 m³/s) Dec. 22, 1964 (gage height, 22.5 ft or 6.86 m, from floodmarks), from rating curve extended above 11,000 ft³/s (312 m³/s) on basis of slope-area measurement of maximum flow; minimum, 1.5 ft³/s (0.042 m³/s) Sept. 23-25, 1972.

REMARKS.--Records good. No regulation or diversion above station. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	34	3,200	1,020	963	2,370	4,200	169	54	20	6.7	4.2
2	10	29	1,800	720	526	1,750	2,340	157	52	20	6.6	4.2
3	9.6	25	1,270	551	404	1,240	1,630	151	51	19	6.3	3.8
4	8.8	30	927	470	350	858	1,120	146	49	17	6.1	3.4
5	8.4	2,040	865	410	310	739	994	146	49	17	6.1	3.4
6	9.6	2,430	1,080	333	280	759	823	149	47	16	6.4	3.4
7	23	2,210	1,530	283	260	759	587	148	45	16	6.5	3.4
8	27	2,190	1,240	239	239	552	504	148	43	20	6.7	3.4
9	21	3,190	815	207	222	450	530	139	42	34	6.5	3.4
10	18	4,780	585	180	205	415	473	127	41	29	6.1	3.4
11	15	7,110	633	166	194	1,130	414	122	39	25	5.3	3.3
12	14	4,100	759	1,040	194	1,440	375	115	36	22	4.9	3.3
13	13	2,180	1,920	2,520	183	1,210	342	109	35	20	4.6	3.3
14	12	2,120	1,380	4,400	170	1,050	316	102	32	19	4.6	3.3
15	11	2,380	954	9,650	164	844	298	99	32	17	4.6	3.3
16	11	2,930	851	13,500	224	723	279	96	31	17	4.7	3.3
17	10	1,880	2,040	4,000	208	637	269	97	32	16	5.3	3.3
18	9.6	1,550	1,450	2,500	846	539	277	94	30	15	5.4	3.1
19	9.2	1,050	945	2,790	2,100	450	248	88	36	15	5.1	2.8
20	11	1,090	1,580	1,470	1,020	398	226	81	39	14	5.0	2.7
21	32	927	3,260	1,030	739	357	214	77	34	14	4.8	2.7
22	822	689	2,170	808	547	325	210	74	30	13	5.0	2.9
23	2,040	612	1,630	672	438	300	209	71	28	12	5.1	2.8
24	713	746	1,430	515	411	281	201	69	27	10	5.0	2.7
25	337	601	1,290	426	396	346	192	68	26	9.7	4.7	2.5
26	183	531	1,100	360	637	330	195	67	24	9.2	4.7	2.5
27	126	660	1,540	320	563	677	179	67	24	9.0	4.7	2.5
28	89	1,130	1,760	292	2,820	1,290	165	64	23	8.6	4.2	2.5
29	70	2,300	3,020	268	-----	6,370	159	62	22	8.0	4.2	2.5
30	51	4,670	1,940	244	-----	7,230	164	59	21	7.5	4.2	2.5
31	40	-----	1,460	552	-----	2,400	-----	57	-----	7.1	4.2	-----
TOTAL	4,765.2	56,214	46,424	51,936	15,613	38,219	18,133	3,218	1,074	496.1	164.3	93.8
MEAN	154	1,874	1,498	1,675	558	1,233	604	104	35.8	16.0	5.30	3.13
MAX	2,040	7,110	3,260	13,500	2,820	7,230	4,200	169	54	34	6.7	4.2
MIN	8.4	25	585	166	164	281	159	57	21	7.1	4.2	2.5
AC-FT	9,450	111,500	92,080	103,000	30,970	75,810	35,970	6,380	2,130	984	326	186
CAL YR 1973	TOTAL 185,260.1	MEAN 508	MAX 7,110	MIN 1.8	AC-FT 367,500							
WTR YR 1974	TOTAL 236,350.4	MEAN 648	MAX 13,500	MIN 2.5	AC-FT 468,800							

PEAK DISCHARGE (BASE, 6,000 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-11	1630	11.41	9,700	2-28	1600	10.06	6,760
11-30	2200	9.91	6,420	3-29	2400	15.43	17,500
1-16	1345	15.22	17,100	4-1	1130	9.98	6,590

NOTE.--No gage-height record Aug. 28 to Sept. 30.

11478500 VAN DUZEN RIVER NEAR BRIDGEVILLE, CALIF.

LOCATION.--Lat 40°28'50", long 123°53'23", in NE¼SE¼ sec.12, T.1 N., R.2 E., Humboldt County, on left bank at downstream side of bridge on State Highway 36, 0.9 mi (1.4 km) upstream from Grizzly Creek, and 5 mi (8 km) west of Bridgeville.

DRAINAGE AREA.--222 mi² (575 km²).

PERIOD OF RECORD.--October 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 358.18 ft (109.173 m) above mean sea level. Prior to Oct. 1, 1965, at site 2.4 mi (3.9 km) upstream at different datum.

AVERAGE DISCHARGE.--24 years, 935 ft³/s (26.48 m³/s), 677,400 acre-ft/yr (835 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 34,600 ft³/s (980 m³/s) Jan. 16 (gage height, 20.34 ft or 6.200 m), from rating curve extended above 12,000 ft³/s (340 m³/s); minimum daily, 7.1 ft³/s (0.20 m³/s) Sept. 20, 21, 26-30.

Period of record: Maximum discharge, 48,700 ft³/s (1,380 m³/s) Dec. 22, 1964 (gage height, 24.0 ft or 7.32 m, present site and datum, from floodmarks), from rating curve extended above 20,000 ft³/s (566 m³/s) on basis of slope-area measurement at gage height 21.3 ft (6.49 m), former site and datum; minimum, 5.0 ft³/s (0.14 m³/s) Sept. 13, 1959.

REMARKS.--Records good. No storage or large diversion above station. Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	169	10,300	1,950	2,140	7,640	9,190	316	111	43	18	11
2	28	153	4,920	1,520	1,360	5,060	5,780	304	106	41	18	11
3	26	145	3,390	1,280	1,050	3,060	3,470	287	102	39	17	11
4	23	169	2,440	1,080	931	2,050	2,310	276	101	38	16	10
5	22	4,800	2,210	952	813	1,730	1,950	268	101	38	16	10
6	21	5,570	2,270	842	720	1,850	1,690	261	99	36	20	9.8
7	49	4,830	2,860	742	650	2,020	1,350	262	93	35	20	9.3
8	85	5,380	2,510	670	598	1,440	1,200	261	90	39	18	9.3
9	62	7,490	1,470	614	557	1,250	1,230	251	86	59	18	9.2
10	50	11,900	1,680	569	525	1,160	1,100	235	83	65	17	8.9
11	43	18,400	1,830	540	494	2,380	934	224	79	55	16	8.9
12	38	11,300	2,140	1,440	518	3,840	808	216	74	48	15	8.9
13	35	7,190	4,610	5,000	506	2,820	725	206	70	44	15	8.7
14	32	6,370	3,130	10,700	464	2,160	663	136	62	41	14	8.4
15	29	6,070	2,230	20,100	447	1,810	612	191	67	38	14	8.3
16	27	8,730	1,920	27,900	673	1,530	561	182	65	36	14	8.0
17	26	6,140	5,000	7,900	658	1,360	525	185	67	34	14	8.0
18	25	5,020	3,340	5,120	2,750	1,230	550	187	66	33	14	7.8
19	25	3,310	2,260	5,640	6,260	1,120	505	173	60	32	14	7.4
20	29	3,730	2,990	3,450	2,950	1,080	444	162	89	30	14	7.1
21	143	3,650	9,050	2,450	2,350	1,040	415	155	77	29	14	7.1
22	2,260	4,120	4,360	1,890	1,940	990	396	140	67	28	13	7.4
23	6,160	2,830	3,300	1,460	1,630	912	405	145	63	27	13	7.6
24	2,130	3,250	2,430	1,250	1,490	830	397	140	59	26	13	7.5
25	1,020	2,690	2,580	1,100	1,510	894	373	136	56	25	12	7.4
26	619	2,530	2,210	980	2,070	970	382	134	54	23	12	7.1
27	429	3,060	3,480	857	1,860	1,600	359	133	52	22	12	7.1
28	320	3,550	3,900	753	9,470	2,870	335	130	49	21	11	7.1
29	262	7,340	6,780	681	-----	12,700	318	125	47	20	11	7.1
30	215	15,300	3,920	620	-----	16,600	315	120	45	20	11	7.1
31	187	-----	2,580	1,130	-----	5,500	-----	114	-----	19	11	-----
TOTAL	14,453	164,245	109,160	111,180	47,384	91,576	39,292	6,129	2,254	1,042	457	253.5
MEAN	466	5,476	3,521	3,586	1,692	2,954	1,310	198	75.1	34.9	14.7	8.45
MAX	6,160	18,400	10,300	27,900	9,470	16,600	9,190	316	111	65	20	11
MIN	22	145	1,680	540	447	830	315	114	45	19	11	7.1
AC-FT	28,670	325,900	216,500	220,500	93,990	181,600	77,460	12,160	4,470	2,150	906	503

CAL YR 1973 TOTAL 489,815.2 MEAN 1,342 MAX 18,400 MIN 8.2 AC-FT 971,500
WTR YR 1974 TOTAL 587,505.5 MEAN 1,610 MAX 27,900 MIN 7.1 AC-FT 1,165,000

PEAK DISCHARGE (BASE, 15,000 FT ³ /S)						
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.
11-10	2245	16.32	22,100	2-28	1245	13.88
11-30	0715	14.79	18,100	3-30	0115	20.22
1-16	0230	20.34	34,600			

11480400 RUTH RESERVOIR NEAR FOREST GLEN, CALIF.

LOCATION.--Lat 40°21'29", long 123°25'20", in SE¼SE¼ sec.19, T.1 S., R.7 E., Trinity County, Six Rivers National Forest, near center of Ruth Dam on Mad River, 5.2 mi (8.4 km) west of Forest Glen.

DRAINAGE AREA.--119 mi² (308 km²).

PERIOD OF RECORD.--October 1966 to current year. Records prior to October 1966 in files of Humboldt Bay Municipal Water District.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Humboldt Bay Municipal Water District).

EXTREMES.--Current year: Maximum contents, 66,000 acre-ft (81.4 hm³) Jan. 16 (elevation, 2,665.68 ft or 812.499 m); minimum, 24,300 acre-ft (30.0 hm³) Oct. 21 (elevation, 2,625.46 ft or 800.240 m).

Period of record: Maximum contents, 66,000 acre-ft (81.4 hm³) Jan. 16, 1974 (elevation, 2,665.68 ft or 812.499 m); minimum, 14,700 acre-ft (18.1 hm³) Nov. 16 to Dec. 2, 1967 (elevation, 2,612.34 ft or 796.241 m).

REMARKS.--Reservoir is formed by earthfill dam; storage began July 1961. Total capacity, 51,800 acre-ft (63.9 hm³) at elevation 2,654.0 ft (808.94 m), crest of spillway. Water is released down Mad River for municipal use. Records given herein represent total contents.

CAPACITY TABLE (ELEVATION, IN FEET, AND CONTENTS, IN ACRE-FEET)

2,595	6,670	2,640	37,300
2,600	8,520	2,645	42,300
2,605	10,700	2,650	47,400
2,610	13,300	2,655	52,900
2,615	16,500	2,660	58,700
2,620	20,100	2,665	65,000
2,625	23,900	2,670	72,300
2,630	27,800	2,675	80,300
2,635	32,500		

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28,400	25,600	56,100	53,700	52,900	56,900	58,100	51,300	51,900	50,000	45,700	38,200
2	28,200	25,400	54,900	53,400	52,800	55,600	56,400	51,500	51,800	49,900	45,500	37,900
3	28,000	25,300	54,200	53,000	52,600	54,600	55,100	51,600	51,700	49,800	45,300	37,700
4	27,700	25,200	53,800	52,800	52,400	54,000	54,300	51,800	51,700	49,700	45,100	37,400
5	27,500	27,900	53,700	52,600	52,300	53,600	53,900	51,900	51,700	49,600	44,900	37,100
6	27,300	29,400	53,900	52,400	52,100	53,500	53,500	52,100	51,600	49,500	44,800	36,900
7	27,100	31,600	54,200	52,200	52,000	53,500	53,200	52,200	51,500	49,400	44,500	36,600
8	26,900	33,800	54,000	52,100	51,800	53,300	52,900	52,200	51,500	49,400	44,400	36,300
9	26,700	37,800	53,700	51,900	51,600	53,100	52,900	52,200	51,500	49,200	44,200	36,100
10	26,500	43,900	53,300	51,700	51,400	53,000	52,700	52,200	51,500	49,100	43,900	35,800
11	26,300	53,300	53,300	51,600	51,100	53,700	52,600	52,200	51,400	49,000	43,700	35,500
12	26,100	56,000	53,500	52,300	50,800	54,100	52,400	52,100	51,300	48,900	43,400	35,300
13	25,800	55,600	54,500	53,900	50,600	54,000	52,300	52,100	51,200	48,700	43,100	35,000
14	25,600	55,600	54,400	57,600	50,200	53,700	52,200	52,100	51,200	48,600	42,900	34,700
15	25,400	55,600	53,900	62,000	49,900	53,400	52,000	52,000	51,100	48,400	42,600	34,400
16	25,200	55,800	53,800	64,800	49,700	53,200	51,900	52,000	51,000	48,300	42,400	34,200
17	25,000	55,300	54,200	59,100	49,500	53,000	51,700	52,100	51,000	48,100	42,100	33,800
18	24,800	54,800	54,000	58,000	50,500	52,800	51,600	52,100	50,900	48,000	41,800	33,600
19	24,600	54,100	53,600	56,900	53,600	52,700	51,400	52,100	50,900	47,800	41,500	33,300
20	24,400	54,000	54,700	55,500	53,600	52,500	51,200	52,100	50,900	47,700	41,300	33,000
21	24,300	53,700	56,100	54,500	53,400	52,400	50,900	52,000	50,800	47,500	41,000	32,700
22	24,500	53,500	55,400	54,000	53,100	52,200	50,700	52,000	50,800	47,400	40,800	32,500
23	25,900	53,100	54,700	53,500	52,900	52,000	50,600	52,000	50,700	47,200	40,500	32,200
24	26,300	53,000	54,100	53,200	52,700	51,900	50,600	52,000	50,600	47,100	40,300	31,900
25	26,400	52,800	53,700	52,900	52,500	51,900	50,700	52,000	50,500	46,900	40,000	31,600
26	26,400	52,700	53,700	52,600	52,700	51,800	50,900	51,900	50,400	46,800	39,800	31,400
27	26,300	52,600	54,000	52,500	52,800	52,500	50,900	51,900	50,400	46,700	39,500	31,100
28	26,200	53,000	54,500	52,300	56,300	53,400	51,000	51,900	50,300	46,500	39,200	30,800
29	26,100	54,200	56,400	52,100	-----	61,300	51,100	51,900	50,200	46,300	39,000	30,500
30	25,900	56,300	55,400	52,000	-----	59,200	51,100	51,900	50,100	46,100	38,700	30,200
31	25,800	-----	54,500	52,600	-----	56,800	-----	52,000	-----	45,900	38,500	-----
MAX	28,400	56,300	56,400	64,800	56,300	61,300	58,100	52,200	51,900	50,000	45,700	38,200
MIN	24,300	25,200	53,300	51,600	49,500	51,800	50,600	51,300	50,100	45,900	38,500	30,200
(a)	2,627.42	2,658.01	2,656.38	2,654.71	2,657.94	2,658.39	2,653.36	2,654.14	2,652.47	2,648.58	2,641.12	2,632.65
(b)	-2,800	+30,500	-1,800	-1,900	+3,700	+500	-5,700	+900	-1,900	-4,200	-7,400	-8,300

CAL YR 1973 b +2,500

WTR YR 1974 b +1,600

a Elevation, in feet, at end of month.

b Change in contents, in acre-feet.

11480500 MAD RIVER NEAR FOREST GLEN, CALIF.

LOCATION.--Lat 40°27'30", long 123°30'35", in SW¼ sec.16, T.1 N., R.6 E., Trinity County, Six Rivers National Forest, on right bank 0.7 mi (1.1 km) downstream from Lamb Creek, and 11.1 mi (17.9 km) northwest of Forest Glen.

DRAINAGE AREA.--143 mi² (370 km²).

PERIOD OF RECORD.--June 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,408.18 ft (734.013 m) above mean sea level. Prior to Dec. 22, 1955, water-stage recorder at site 0.7 mi (1.1 km) upstream at different datum. Jan. 13 to June 18, 1956, nonrecording gage at former site at datum 4.17 ft (1.271 m) lower than former datum.

AVERAGE DISCHARGE.--21 years, 397 ft³/s (11.24 m³/s), 287,600 acre-ft/yr (355 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 15,500 ft³/s (439 m³/s) Jan. 16 (gage height, 13.91 ft or 4.240 m); minimum daily, 24 ft³/s (0.68 m³/s) May 31.

Period of record: Maximum discharge, 39,200 ft³/s (1,110 m³/s) Dec. 22, 1955 (gage height, 24.5 ft or 7.468 m, from floodmarks, present datum), from rating curve extended above 8,100 ft³/s (229 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.60 ft³/s (0.017 m³/s) Sept. 15, 1961.

REMARKS.--Records excellent. Flow regulated by Ruth Reservoir 9 mi (14 km) upstream beginning in July 1961 (see sta 11480400). No diversion above station. Records of chemical analyses, water temperatures and sediment discharge for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1395: 1954. WSP 1715: 1957(M), 1958(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107	105	3,930	1,530	732	3,710	4,720	72	26	50	97	119
2	107	105	2,680	1,170	730	3,250	4,370	68	105	50	97	119
3	103	105	1,340	941	654	2,140	2,820	66	87	50	97	119
4	105	107	1,420	782	587	1,530	1,920	66	56	50	97	119
5	105	311	1,210	679	521	1,230	1,480	66	56	62	100	119
6	109	260	1,210	597	467	1,090	1,230	64	55	62	101	119
7	107	267	1,380	525	427	1,100	995	58	55	62	101	119
8	107	253	1,410	470	395	1,010	849	77	54	62	101	119
9	105	559	1,210	430	384	893	794	90	54	62	100	119
10	105	829	997	400	380	807	722	122	54	77	117	119
11	105	1,270	960	399	377	1,090	653	115	54	77	118	119
12	105	2,700	1,030	553	381	1,400	590	107	52	77	118	119
13	105	3,000	1,630	1,190	374	1,460	535	100	51	77	118	119
14	105	2,770	1,820	3,220	371	1,290	484	97	51	77	121	119
15	105	2,720	1,550	9,080	369	1,100	440	94	51	77	123	119
16	105	3,950	1,300	14,600	386	918	408	91	51	77	121	119
17	103	2,710	1,560	9,680	375	813	390	93	50	77	121	118
18	102	2,300	1,550	5,170	523	727	392	95	50	77	121	118
19	103	1,760	1,300	4,690	858	635	383	91	50	77	121	117
20	103	1,330	1,520	3,200	1,170	581	378	89	50	77	121	117
21	109	1,290	3,050	2,130	1,080	533	373	85	50	77	121	117
22	143	1,100	2,980	1,550	929	485	358	81	50	77	121	117
23	194	610	2,210	1,190	778	446	264	77	50	77	121	117
24	125	844	1,710	971	690	416	220	71	50	77	121	117
25	113	772	1,380	816	631	409	178	73	50	76	121	117
26	109	713	1,180	700	642	398	178	69	50	76	120	120
27	109	688	1,300	615	677	495	173	66	50	76	120	124
28	107	736	1,580	549	1,990	827	171	65	50	75	119	124
29	107	1,200	3,110	492	-----	3,689	170	61	50	82	119	123
30	107	3,060	3,000	446	-----	9,700	164	44	50	97	119	120
31	105	-----	2,100	524	-----	4,810	-----	24	-----	97	119	-----
TOTAL	3,436	37,873	55,117	63,289	17,878	48,974	26,802	2,437	1,612	2,244	3,532	3,570
MEAN	111	1,242	1,778	2,235	639	1,580	893	78.6	53.7	72.4	114	119
MAX	193	3,060	3,930	14,600	1,390	9,700	4,720	122	105	97	123	124
MIN	102	105	960	309	369	398	164	24	26	50	97	117
AC-FT	6,420	75,120	109,300	137,400	35,460	97,140	53,160	4,830	3,200	4,450	7,010	7,080

CAL YR 1973 TOTAL 201,887 MEAN 553 MAX 4,980 MIN 22 AC-FT 400,400
WTR YR 1974 TOTAL 272,764 MEAN 747 MAX 14,600 MIN 24 AC-FT 541,000

NOTE.--No gage-height record June 17 to July 23.

11480750 MAD RIVER NEAR KNEELAND, CALIF.

LOCATION.--Lat 40°45'50", long 123°53'20", in NW¼NW¼ sec.6, T.4 N., R.3 E., Humboldt County, on left bank at mouth of Maple Creek 30 ft (9 m) upstream from bridge, and 5.4 mi (8.7 km) east of Kneeland.

DRAINAGE AREA.--352 mi² (912 km²).

PERIOD OF RECORD.--October 1965 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 329.66 ft (100.480 m) above mean sea level.

AVERAGE DISCHARGE.--9 years, 1,266 ft³/s (35.85 m³/s), 917,200 acre-ft/yr (1.13 km³/yr).

EXTREMES.--Current year: Maximum discharge, 31,900 ft³/s (903 m³/s) Jan. 16 (gage height, 21.84 ft or 6.657 m); minimum daily, 97 ft³/s (2.75 m³/s) July 5.

Period of record: Maximum discharge, 33,300 ft³/s (943 m³/s) Mar. 2, 1972 (gage height, 22.57 ft or 6.879 m); minimum daily, 55 ft³/s (1.56 m³/s) Oct. 3-8, Nov. 5, 1966.

Flood of Dec. 22, 1964, reached a stage of 37.99 ft (11.579 m), from floodmarks (discharge, 55,000 ft³/s or 1,560 m³/s).

REMARKS.--Records poor. Flow regulated by Ruth Reservoir 47 mi (76 km) upstream (see sta 11480400). No diversion above station. Records of chemical analyses, water temperatures, sediment discharge, and sediment and turbidity data for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS)--WRD Calif. 1971: 1970.

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	230	11,900	3,160	2,740	9,000	14,500	450	120	100	123	136
2	120	165	5,780	2,500	2,180	8,100	9,000	416	116	99	123	137
3	120	162	3,450	2,220	1,930	5,900	5,700	384	173	98	123	138
4	120	200	3,230	1,920	1,700	4,500	4,800	358	158	98	123	139
5	120	3,250	3,230	1,670	1,480	3,500	3,500	334	134	97	124	138
6	136	4,450	3,380	1,500	1,320	3,600	3,050	325	132	102	131	138
7	210	3,950	3,930	1,380	1,200	3,900	2,700	303	127	103	121	138
8	171	5,030	3,780	1,380	1,080	3,150	2,250	281	124	105	124	138
9	153	4,340	3,530	1,350	1,000	2,750	2,150	290	121	111	123	137
10	136	6,360	3,230	1,380	940	2,520	1,950	303	119	107	120	137
11	128	11,300	3,480	1,320	940	2,760	1,750	325	117	105	132	136
12	120	8,940	3,630	1,560	950	2,980	1,620	312	116	108	134	136
13	120	8,180	4,980	3,100	960	3,800	1,540	290	114	109	137	134
14	120	7,050	4,480	7,010	900	3,200	1,450	277	112	108	139	132
15	105	6,580	4,000	18,200	860	2,700	1,360	281	112	107	141	131
16	108	8,470	3,750	27,500	1,100	2,300	1,270	269	111	106	147	130
17	108	6,600	5,050	11,600	1,500	2,000	1,190	294	113	106	144	128
18	108	5,440	4,480	11,000	2,800	1,750	1,080	294	111	106	144	128
19	108	3,850	3,380	8,100	7,700	1,500	1,000	273	109	106	139	128
20	108	3,990	4,200	6,000	5,300	1,300	960	249	116	105	144	127
21	384	4,150	8,350	4,800	3,600	1,200	938	238	111	104	144	125
22	1,760	3,490	6,180	3,000	3,100	1,150	890	227	108	104	141	125
23	5,310	3,060	4,580	2,320	2,550	1,080	830	213	107	102	139	124
24	2,230	3,810	4,280	2,000	2,100	1,050	790	202	106	103	136	124
25	1,250	3,050	4,150	1,620	1,850	1,030	750	189	105	102	141	124
26	779	2,980	3,750	1,370	2,000	1,020	700	179	104	102	141	123
27	565	3,870	4,730	1,100	2,300	1,200	640	173	102	101	140	123
28	434	4,100	5,430	1,010	7,000	1,950	590	167	102	101	139	122
29	340	6,480	7,320	860	-----	6,260	550	161	102	102	138	122
30	260	16,100	5,680	744	-----	19,000	500	153	101	107	137	124
31	210	-----	4,230	1,520	-----	11,000	-----	134	-----	121	136	-----
TOTAL	16,069	150,147	146,550	134,194	63,080	117,150	69,998	8,344	3,503	3,235	4,168	3,922
MEAN	518	5,005	4,727	4,329	2,253	3,779	2,333	269	117	104	134	131
MAX	5,310	16,100	11,900	27,500	7,700	19,000	14,500	450	173	121	147	139
MIN	108	162	3,230	744	860	1,020	500	134	101	97	120	122
AC-FT	31,870	297,800	290,700	266,200	125,100	232,400	138,800	16,550	6,950	6,420	8,270	7,780
CAL YR 1973	TOTAL 585,990 MEAN 1,605 MAX 16,100 MIN 90 AC-FT 1,162,000											
WTR YR 1974	TOTAL 720,360 MEAN 1,974 MAX 27,500 MIN 97 AC-FT 1,429,000											

NOTE.--No gage-height record Feb. 8 to Mar. 7.

11480800 NORTH FORK MAD RIVER NEAR KORBEL, CALIF.

LOCATION.--Lat 40°53'11", long 123°56'26", in SW¼ sec.22, T.6 N., R.2 E., Humboldt County, on left bank 0.5 mi (0.8 km) downstream from Bald Mountain Creek, 1.2 mi (1.9 km) northeast of Korbelt, and 2.5 mi (4.0 km) east of town of Blue Lake.

DRAINAGE AREA.--40.4 mi² (104.6 km²).

PERIOD OF RECORD.--October 1957 to September 1964, October 1972 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 250 ft (76 m), from topographic map.

AVERAGE DISCHARGE.--9 years, 142 ft³/s (4.021 m³/s), 102,900 acre-ft/yr (127 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 10,100 ft³/s (286 m³/s) Jan. 16 (gage height, 16.13 ft or 4.916 m), from outside high-water mark; minimum daily, 0.95 ft³/s (0.027 m³/s) Sept. 13-18.

Period of record: Maximum discharge, 10,100 ft³/s (286 m³/s) Jan. 16, 1974 (gage height, 16.13 ft or 4.916 m), from outside high-water mark; minimum daily, 0.95 ft³/s (0.027 m³/s) Sept. 13-18, 1974.

REMARKS.--Records good. No regulation or diversion above station. Records of sediment discharge for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	49	1,630	200	463	608	4,120	30	15	7.0	3.4	1.7
2	5.8	43	816	152	304	612	1,950	30	14	6.6	3.1	1.7
3	5.6	45	409	128	196	428	593	36	14	6.6	3.1	1.7
4	5.2	90	294	106	153	270	405	35	14	6.6	2.9	1.7
5	5.1	900	239	84	120	260	393	33	16	6.3	2.9	1.2
6	8.3	845	281	79	99	347	341	33	16	6.3	3.1	1.2
7	12	732	358	70	83	306	251	41	14	6.6	3.1	1.2
8	9.4	1,360	235	65	72	244	244	30	13	6.2	3.1	1.2
9	11	600	159	61	63	173	286	29	12	6.3	2.5	1.1
10	9.4	520	193	56	50	132	212	27	12	6.2	2.6	1.1
11	8.3	728	232	54	53	129	165	26	11	6.2	2.6	1.1
12	7.5	1,110	402	60	63	221	139	26	11	7.8	2.2	1.0
13	7.0	1,560	321	92	59	206	120	25	11	7.0	2.2	.95
14	6.5	1,160	212	335	51	173	106	25	11	6.6	2.2	.95
15	5.9	636	149	1,500	40	143	95	27	11	6.0	2.2	.95
16	5.7	905	239	5,000	242	116	87	27	11	5.7	2.2	.95
17	5.5	656	344	1,950	235	95	81	34	11	6.0	1.9	.95
18	5.0	756	212	890	1,010	42	85	34	11	6.6	1.9	.95
19	5.1	421	235	325	1,580	70	79	28	11	6.0	1.9	1.0
20	7.5	648	506	250	509	60	70	25	11	5.7	1.9	.99
21	214	960	453	190	400	52	64	24	10	5.7	1.9	.98
22	420	668	309	145	431	46	52	23	9.3	5.4	1.7	.98
23	3,150	523	263	110	300	42	65	22	9.3	6.8	1.7	.98
24	925	576	283	100	223	37	62	21	9.3	4.5	1.4	.98
25	441	495	523	90	165	43	62	20	9.3	4.5	1.4	.98
26	189	520	280	80	193	35	57	19	9.0	4.2	1.3	.97
27	106	740	430	75	177	61	52	18	8.2	3.6	1.2	.96
28	87	492	520	67	684	160	44	18	7.8	3.6	1.2	.96
29	69	716	610	62	-----	857	45	17	7.8	3.6	1.2	.96
30	55	2,600	460	58	-----	1,280	42	16	7.0	3.6	1.2	.96
31	47	-----	300	370	-----	684	-----	16	-----	3.4	1.7	-----
TOTAL	5,445.1	22,094	11,897	12,811	8,057	7,936	2,481	823	336.9	1,41.6	67.4	33.30
MEAN	189	736	384	413	280	256	316	28.5	11.2	5.92	2.17	1.11
MAX	3,150	2,600	1,630	5,000	1,580	1,280	4,120	40	16	9.3	3.4	1.7
MIN	5.0	43	149	54	49	35	42	16	7.0	3.4	1.2	.95
AC-FT	11,590	43,820	23,600	25,410	15,980	15,740	19,810	1,630	668	364	134	66

CAL YR 1973 TOTAL 64,936.80 MEAN 178 MAX 3,150 MIN 2.5 AC-FT 124,800

WTR YR 1974 TOTAL 79,565.30 MEAN 218 MAX 5,000 MIN .95 AC-FT 157,800

PEAK DISCHARGE (BASE, 1,500 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
10-23	1400	13.61	6,930	2-18	2400	10.41	3,570
11-13	1330	8.71	2,200	3-29	2330	8.54	2,080
11-30	0915	10.80	3,920	4-1	1015	14.57	8,080
1-16	unknown	16.13	10,100				

NOTE.--No gage-height record Dec. 26 to Jan. 31.

11481000 MAD RIVER NEAR ARCATA, CALIF.

LOCATION.--Lat 40°54'35", long 124°03'35", in NW¼ sec.15, T.6 N., R.1 E., Humboldt County, on right bank 100 ft (30 m) upstream from bridge on U.S. Highway 299, 1.0 mi (1.6 km) downstream from Warren Creek, and 2.8 mi (4.5 km) northeast of Arcata.

DRAINAGE AREA.--485 mi² (1,256 km²).

PERIOD OF RECORD.--October 1910 to September 1913, August 1950 to current year. Monthly discharge only for some periods published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 12.79 ft (3.898 m) above mean sea level. December 1910 to September 1913, nonrecording gage at site 0.1 mi (0.2 km) upstream at different datum. Aug. 15, 1950, to July 23, 1956, water-stage recorder at site 0.6 mi (1.0 km) upstream at datum 11.00 ft (3.353 m) higher. July 24, 1956, to Apr. 9, 1965, water-stage recorder at datum 5.00 ft (1.524 m) higher. Aug. 29 to Oct. 26, 1961, auxiliary water-stage recorder at site 0.5 mi (0.8 km) downstream at different datum.

AVERAGE DISCHARGE (adjusted for diversions).--27 years, 1,560 ft³/s (44.18 m³/s), 1,130,000 acre-ft/yr (1.39 km³/yr).

EXTREMES.--Current year: Maximum discharge, 41,300 ft³/s (1,170 m³/s) Jan. 16 (gage height, 20.18 ft or 6.151 m); minimum daily, 16 ft³/s (0.45 m³/s) July 26.

Period of record: Maximum discharge, 81,000 ft³/s (2,290 m³/s) Dec. 22, 1964 (gage height, 30.7 ft or 9.36 m, present datum, from high-water mark profile); minimum, 0.75 ft³/s (0.021 m³/s) July 31, 1970.

REMARKS.--Records good. Flow regulated by Ruth Reservoir 68 mi (109 km) upstream beginning in July 1961 (see sta 11480400). Water is diverted 0.5 mi (0.8 km) upstream from station for municipal supply and industrial use in Humboldt Bay area. Records of chemical analyses, water temperatures, sediment discharge, and sediment and turbidity data for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD Calif. 1972: 1965(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	361	16,100	4,580	4,040	10,500	21,200	568	41	26	27	52
2	83	321	9,370	3,380	3,340	9,020	13,000	449	32	30	25	54
3	76	310	6,580	2,570	2,500	6,350	8,500	449	48	47	25	57
4	69	353	5,040	2,080	2,140	4,620	5,920	378	86	50	26	53
5	68	4,030	4,240	1,830	1,910	3,650	4,990	356	68	42	26	41
6	71	5,610	4,240	1,620	1,680	3,850	4,510	326	55	33	31	40
7	123	5,280	4,780	1,430	1,400	4,410	3,750	306	37	29	31	43
8	128	7,540	4,640	1,280	1,230	3,420	3,310	288	35	32	30	41
9	121	4,890	3,750	1,140	1,100	2,880	3,330	296	30	41	31	41
10	104	6,910	3,040	1,040	933	2,430	3,200	289	30	50	31	40
11	71	12,700	3,490	973	853	2,700	2,950	305	32	48	33	40
12	38	11,900	3,550	1,160	954	4,310	2,660	299	30	48	37	39
13	40	11,900	6,300	2,500	927	4,610	2,320	283	23	58	37	42
14	30	10,100	5,600	5,720	855	4,020	2,010	271	20	53	36	39
15	25	8,480	4,520	17,300	834	3,590	1,740	283	22	50	39	39
16	40	10,000	3,690	36,600	1,760	3,020	1,400	286	20	45	41	40
17	62	8,580	5,620	22,500	2,020	2,610	1,270	320	27	39	42	40
18	62	8,290	5,480	11,400	4,580	2,300	1,420	324	23	39	43	44
19	61	5,830	4,160	9,810	11,100	1,970	1,290	280	23	31	44	44
20	75	5,810	4,590	7,260	5,320	1,730	1,140	236	28	27	43	40
21	468	7,040	9,150	5,320	4,350	1,540	1,060	207	27	25	45	40
22	2,270	5,920	8,130	4,150	3,820	1,380	1,020	192	23	22	42	42
23	8,960	4,740	6,290	3,340	2,990	1,430	986	166	21	19	43	42
24	4,350	5,950	5,850	2,730	2,770	1,390	957	159	20	18	49	43
25	2,230	4,850	5,970	2,320	2,300	1,360	960	145	19	18	49	49
26	1,280	5,040	4,530	2,010	2,260	1,330	822	168	20	16	51	46
27	855	5,860	5,770	1,710	2,470	1,520	751	130	23	18	52	44
28	671	5,810	8,030	1,510	8,840	2,660	689	86	24	17	52	49
29	541	7,640	9,280	1,370	-----	8,370	649	83	24	18	54	52
30	416	18,100	8,610	1,280	-----	24,500	602	72	25	20	52	50
31	349	-----	6,220	1,830	-----	12,500	-----	64	-----	24	50	-----
TOTAL	23,822	200,135	186,610	163,743	79,276	139,970	98,406	8,064	936	1,033	1,217	1,326
MEAN	768	6,671	6,020	5,282	2,831	4,515	3,280	260	31.2	33.3	39.3	44.2
MAX	8,960	18,100	16,100	36,600	11,100	24,500	21,200	568	86	58	54	57
MIN	25	310	3,040	973	834	1,330	602	64	19	16	25	39
AC-FT	47,250	397,000	370,100	324,800	157,200	277,600	195,200	15,990	1,860	2,050	2,410	2,630
(a)	5,170	4,670	4,210	4,750	4,380	4,830	4,750	5,370	4,960	5,560	5,630	5,600

CAL YR 1973 TOTAL 726,875 MEAN 1,991 MAX 18,100 MIN 12 AC-FT 1,442,000 a 58,600
 WTR YR 1974 TOTAL 904,538 MEAN 2,478 MAX 36,600 MIN 16 AC-FT 1,794,000 a 59,880

a Diversion, in acre-feet, for municipal supply and industrial use, furnished by Humboldt Municipal Water District.

11481200 LITTLE RIVER NEAR TRINIDAD, CALIF.

LOCATION.--Lat 41°00'40", long 124°04'50", in NE¼ sec.8, T.7 N., R.1 E., Humboldt County, on right bank 0.5 mi (0.8 km) upstream from Coon Creek, 4.7 mi (7.6 km) southeast of Trinidad, and 9.1 mi (14.6 km) north of Arcata.

DRAINAGE AREA.--44.4 mi² (115.0 km²).

PERIOD OF RECORD.--October 1955 to current year. Prior to October 1971, published as "at Crannell."

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 17.62 ft (5.371 m) above mean sea level.

AVERAGE DISCHARGE.--19 years, 148 ft³/s (4.191 m³/s), 107,200 acre-ft/yr (132 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 7,500 ft³/s (212 m³/s) Apr. 1 (gage height, 11.49 ft or 3.502 m), from rating curve extended as explained below; minimum daily, 5.4 ft³/s (0.15 m³/s) Sept. 20-30.

Period of record: Maximum discharge, 9,720 ft³/s (275 m³/s) Jan. 22, 1972 (gage height, 14.08 ft or 4.292 m), from rating curve extended above 3,100 ft³/s (87.8 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 2.8 ft³/s (0.079 m³/s) Oct. 20-22, 1964.

Flood of Jan. 17, 18, 1953, reached a stage of 15.7 ft (4.79 m), observed by an employee of Hammond Lumber Co.

REMARKS.--Records good. No storage or diversion above station.

REVISIONS (WATER YEARS).--WRD Calif. 1964: 1956-60.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	80	1,620	333	415	545	4,170	53	20	11	8.4	7.5
2	7.8	76	860	255	274	545	1,110	50	20	10	8.4	7.5
3	7.1	80	559	211	194	386	638	52	19	9.6	8.4	7.0
4	7.1	539	407	175	159	277	428	47	19	9.3	8.4	6.7
5	7.8	1,150	337	152	138	221	357	45	18	9.3	7.9	6.7
6	11	1,630	288	138	123	341	299	45	17	9.5	9.0	6.4
7	9.5	1,440	541	122	109	368	236	43	17	9.8	8.4	6.1
8	13	1,580	428	111	101	249	216	41	17	11	8.4	6.1
9	11	673	312	103	92	201	244	40	16	14	7.5	6.1
10	9.5	579	250	98	87	172	198	37	16	13	7.5	5.8
11	9.2	1,400	260	92	81	227	171	36	15	13	7.5	5.8
12	8.8	1,420	300	103	88	347	150	36	15	12	7.5	5.8
13	8.5	1,540	530	109	81	295	130	35	15	12	6.7	5.8
14	8.5	992	520	377	75	240	115	43	14	12	6.7	5.8
15	7.1	592	260	1,470	74	206	101	36	14	11	6.7	5.8
16	7.1	1,220	250	2,220	203	177	96	35	13	11	6.7	5.8
17	7.1	698	680	961	221	156	89	42	13	11	6.7	5.8
18	7.1	693	478	545	761	142	101	39	14	11	7.0	5.8
19	7.1	386	358	505	1,570	125	91	36	16	11	7.5	5.8
20	28	496	622	379	505	113	82	34	20	11	7.0	5.4
21	370	718	912	281	400	105	76	32	18	11	7.0	5.4
22	1,160	547	554	218	358	96	75	31	16	11	7.0	5.4
23	1,390	390	442	184	277	89	76	29	15	9.8	6.4	5.4
24	476	441	428	163	218	84	73	28	14	9.8	6.4	5.4
25	265	371	680	150	189	88	69	27	14	9.8	6.4	5.4
26	166	413	478	137	216	79	69	26	13	9.5	6.7	5.4
27	123	535	755	122	208	108	63	25	13	8.4	6.7	5.4
28	117	458	896	111	518	140	60	24	12	8.4	6.7	5.4
29	97	1,400	926	103	-----	1,450	56	23	12	8.4	7.0	5.4
30	85	2,920	710	96	-----	2,230	53	22	11	9.5	7.0	5.4
31	83	-----	451	208	-----	790	-----	21	-----	8.4	7.0	-----
TOTAL	4,523.3	25,457	17,192	10,232	7,735	10,592	9,692	1,113	466	325.5	226.6	177.5
MEAN	146	849	555	330	276	342	323	35.9	15.5	10.5	7.31	5.92
MAX	1,390	2,920	1,620	2,220	1,570	2,230	4,170	53	20	14	9.0	7.5
MIN	7.1	76	250	92	74	79	53	21	11	8.4	6.4	5.4
AC-FT	8,970	50,490	34,100	20,300	15,340	21,010	19,220	2,210	924	646	449	352

C&L YR 1973 TOTAL 75,670.6 MEAN 207 MAX 2,920 MIN 4.8 AC-FT 150,100

WTR YR 1974 TOTAL 87,731.9 MEAN 240 MAX 4,170 MIN 5.4 AC-FT 174,000

PEAK DISCHARGE (BASE, 3,000 FT ³ /S)					
DATE	TIME	G.H.	DISCHARGE	DATE	TIME
10-22	2100	8.66	4,700	2-19	0030
11-7	2245	8.97	5,000	3-29	2400
11-30	1300	8.14	4,180	4-1	0930
1-16	1330	7.12	3,170		

NOTE.--No gage-height record May 19 to July 9.

G.H.
7.58
8.55
11.49
7,500

REDWOOD CREEK BASIN

11481500 REDWOOD CREEK NEAR BLUE LAKE, CALIF.

LOCATION.--Lat 40°54'22", long 123°48'51", in SE¼NE¼ sec.15, T.6 N., R.3 E., Humboldt County, on right bank 400 ft (122 m) upstream from Lupton Creek, and 9.1 mi (14.6 km) east of town of Blue Lake.

DRAINAGE AREA.--67.6 mi² (175.1 km²).

PERIOD OF RECORD.--June 1953 to September 1958, October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 850 ft (259 m), from topographic map.

AVERAGE DISCHARGE.--7 years, 301 ft³/s (8.524 m³/s), 218,100 acre-ft/yr (269 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 5,720 ft³/s (162 m³/s) Apr. 1 (gage height, 10.20 ft or 3.109 m), from rating curve extended above 1,200 ft³/s (34.0 m³/s); maximum gage height, 10.89 ft (3.319 m) Jan. 16; minimum daily discharge, 3.5 ft³/s (0.099 m³/s) Sept. 20-30.

Period of record: Maximum discharge, 12,100 ft³/s (343 m³/s) Dec. 21, 1955 (gage height, 13.68 ft or 4.170 m), from rating curve extended above 5,800 ft³/s (164 m³/s); minimum daily, 3.5 ft³/s (0.099 m³/s) Sept. 20-30, 1974.

REMARKS.--Records poor. No regulation or diversion above station. Records of chemical analyses, water temperatures, and sediment discharge for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	244	2,820	600	651	2,070	3,710	123	51	20	8.7	5.2
2	11	233	1,520	522	742	1,270	1,910	114	49	20	8.3	5.1
3	10	230	1,180	450	570	841	1,160	108	48	19	8.0	4.6
4	9.8	250	914	390	475	675	769	102	53	19	7.7	4.3
5	9.8	934	398	360	455	598	682	99	50	19	8.1	4.3
6	16	1,200	882	329	410	621	573	98	47	19	8.7	4.3
7	33	942	1,010	312	370	615	462	104	44	19	8.3	4.3
8	18	1,140	786	284	351	551	414	98	42	19	7.6	3.9
9	24	900	700	260	320	442	361	95	40	19	7.3	3.9
10	16	1,150	624	244	300	401	332	90	38	19	7.0	3.9
11	12	2,030	721	244	288	475	291	88	30	19	6.4	3.9
12	9.9	1,900	756	292	296	719	260	86	36	19	6.2	3.9
13	8.3	2,410	993	440	280	564	232	83	34	18	6.2	3.9
14	8.3	1,660	770	700	276	570	211	81	35	17	5.7	3.9
15	7.7	1,320	700	1,150	292	551	198	85	36	17	5.6	3.6
16	7.3	1,600	693	3,560	338	497	187	84	30	15	5.6	3.6
17	6.8	1,190	1,130	1,790	312	453	179	86	34	15	5.6	3.6
18	6.4	1,110	818	1,180	1,760	416	196	82	35	15	5.6	3.6
19	6.3	774	665	1,200	1,250	358	181	78	36	15	5.6	3.6
20	12	1,150	914	957	749	314	160	74	33	14	5.6	3.5
21	140	1,070	1,680	794	714	275	149	72	32	12	5.6	3.5
22	627	882	966	700	644	253	143	69	32	12	5.6	3.5
23	2,470	802	786	637	546	230	147	67	31	12	5.6	3.5
24	952	958	763	570	485	214	153	65	31	12	5.6	3.5
25	627	887	818	505	425	233	156	63	30	11	5.6	3.5
26	456	834	749	470	574	214	149	62	29	9.4	5.2	3.5
27	368	1,130	1,030	430	477	319	141	61	26	9.4	5.2	3.5
28	323	1,080	1,070	400	2,130	393	136	59	24	9.4	5.2	3.5
29	290	1,700	1,340	375	-----	2,010	129	58	22	9.4	5.2	3.5
30	263	3,670	890	360	-----	2,710	126	56	22	9.0	5.2	3.5
31	244	-----	714	347	-----	1,510	-----	53	-----	8.7	5.2	-----
TOTAL	7,005.1	35,380	30,300	20,852	16,489	21,362	13,917	2,543	1,094	470.3	197.0	115.9
MEAN	226	1,179	977	673	589	689	464	82.0	36.5	15.2	6.35	3.86
MAX	2,470	3,670	2,820	3,560	2,130	2,710	3,710	123	53	7.0	8.7	5.2
MIN	6.3	230	624	244	276	214	126	53	22	8.7	5.2	3.5
AC-FT	13,890	70,180	60,100	41,360	32,710	42,370	27,600	5,040	2,170	9.3	391	230
CAL YR 1973	TOTAL	126,839.9	MEAN	348	MAX	3,670	MIN	3.6	AC-FT	251,600		
WTR YR 1974	TOTAL	149,725.3	MEAN	410	MAX	3,710	MIN	3.5	AC-FT	297,000		

PEAK DISCHARGE (BASE, 1,900 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
10-23	1330	10.66	5,070	1-16	1400	10.89	5,460
11-6	1745	8.52	1,940	2-18	1845	9.56	3,290
11-13	0900	9.60	3,350	2-28	0945	8.83	3,650
11-30	2015	10.36	4,560	3-29	2330	9.47	4,580
12-21	0630	8.79	2,270	4-1	0915	10.20	5,720

11482200 REDWOOD CREEK AT SOUTH PARK BOUNDARY, NEAR ORICK, CALIF.

LOCATION.--Lat 41°10'19", long 123°56'55", in SE¼NE¼ sec.16, T.9 N., R.2 E., Humboldt County, Redwood National Park (south boundary), on left bank 150 ft (46 m) downstream from Slide Creek, 8.6 mi (13.8 km) southeast of Orick, and 17 mi (27 km) upstream from mouth.

DRAINAGE AREA.--185 mi² (479 km²).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 240 ft (73 m), from topographic map. Prior to Aug. 3, 1973, at different datum.

EXTREMES.--Current year: Maximum discharge, 16,600 ft³/s (470 m³/s) Apr. 1 (gage height, 18.30 ft or 5.578 m); minimum daily, 8.2 ft³/s (0.23 m³/s) Sept. 25-30.

Period of record: Maximum discharge, 32,600 ft³/s (923 m³/s) Mar. 2, 1972 (gage height, 29.36 ft or 8.949 m, datum then in use), from rating curve extended above 4,000 ft³/s (113 m³/s) on basis of runoff comparisons with upstream and downstream stations; minimum daily, 6.1 ft³/s (0.17 m³/s) Oct. 7-17, 1970.

REMARKS.--Records fair. No regulation or diversion above station. Records of chemical analyses, water temperatures, and sediment discharge for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	524	7,560	2,230	2,140	4,060	11,700	416	111	55	25	13
2	42	489	5,140	1,780	1,530	3,260	5,950	397	105	53	24	13
3	39	447	3,690	1,490	1,120	2,410	3,720	376	104	52	23	13
4	36	780	2,940	1,280	1,000	1,810	2,630	354	104	51	22	12
5	34	3,570	2,500	1,100	890	1,440	2,400	334	111	50	22	12
6	42	4,170	2,270	961	803	2,080	2,070	321	109	49	23	12
7	78	3,480	2,770	865	732	1,910	1,780	308	104	48	22	12
8	66	5,580	2,520	794	685	1,530	1,640	292	101	48	22	12
9	68	3,890	2,040	734	629	1,310	1,600	271	97	54	20	12
10	62	3,770	1,690	685	590	1,180	1,420	253	93	58	19	12
11	53	5,440	2,090	654	559	1,330	1,270	245	88	54	19	11
12	48	6,560	2,020	773	573	1,930	1,170	233	87	51	18	11
13	44	6,330	3,080	918	546	1,800	1,070	222	86	48	18	10
14	41	6,100	2,650	1,770	510	1,660	963	210	84	46	17	9.5
15	39	4,400	2,090	4,200	503	1,540	884	219	76	44	17	9.5
16	37	5,020	1,970	9,570	857	1,360	823	213	76	43	17	9.5
17	35	4,300	3,320	5,370	799	1,230	765	234	81	42	16	9.5
18	34	4,020	2,750	3,390	2,810	1,130	784	231	75	40	16	9.5
19	35	2,950	2,130	3,030	5,910	1,030	742	200	75	39	16	8.8
20	50	3,360	3,370	2,300	3,010	921	664	182	75	38	15	8.8
21	566	3,850	4,620	1,820	2,520	873	603	170	72	37	15	8.8
22	1,710	3,390	3,360	1,520	2,180	815	567	161	68	36	15	8.8
23	6,420	2,840	2,860	1,310	1,730	767	568	154	66	35	15	8.8
24	3,330	3,170	2,670	1,130	1,490	720	572	144	64	33	14	8.8
25	2,060	2,860	2,640	987	1,350	744	590	136	63	32	14	8.2
26	1,290	3,050	2,360	869	1,530	701	562	129	61	30	14	8.2
27	924	3,640	3,030	779	1,430	815	516	123	60	29	14	8.2
28	787	3,360	3,630	712	2,980	1,140	484	120	60	28	13	8.2
29	668	5,840	4,370	663	-----	3,940	457	126	59	28	13	8.2
30	577	9,240	3,660	618	-----	6,830	432	116	58	27	13	8.2
31	530	-----	2,810	1,090	-----	3,980	-----	112	-----	26	13	-----
TOTAL	19,792	116,470	94,600	55,392	41,406	56,246	49,396	7,002	2,473	1,304	544	304.5
MEAN	638	3,882	3,052	1,787	1,479	1,814	1,647	226	82.4	42.1	17.5	10.2
MAX	6,420	9,240	7,560	9,570	5,910	6,830	11,700	416	111	58	25	13
MIN	34	489	1,690	618	503	701	432	112	58	26	13	8.2
AC-FT	39,260	231,000	187,600	109,900	82,130	111,600	97,980	13,890	4,910	2,590	1,080	604
CAL YR 1973	TOTAL 379,273.5	MEAN 1,039	MAX 9,240	MIN 9.1	AC-FT 752,300							
WTR YR 1974	TOTAL 444,929.5	MEAN 1,219	MAX 11,700	MIN 8.2	AC-FT 882,500							

PEAK DISCHARGE (BASE, 5,900 FT ³ /S)					
DATE	TIME	G.H.	DISCHARGE	DATE	TIME
10-23	1300	15.27	10,800	1-16	1615
11-8	0430	13.37	7,820	2-19	0230
11-13	1630	13.35	7,790	3-29	2330
11-30	unknown	--	10,800	4-1	0900

NOTE.--No gage-height record July 1 to Sept. 30.

11,600
9,020
9,080
16,600

11482500 REDWOOD CREEK AT ORICK, CALIF.

LOCATION.--Lat 41°17'18", long 124°03'27", in NE¼NE¼ sec.4, T.10 N., R.1 E., Humboldt County, on left bank at upstream side of bridge on U.S. Highway 101 at Orick, 0.9 mi (1.4 km) downstream from Prairie Creek.

DRAINAGE AREA.--278 mi² (720 km²).

PERIOD OF RECORD.--September 1911 to September 1913, October 1953 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 5.16 ft (1.573 m) above mean sea level. Sept. 10, 1911, to Aug. 9, 1913, nonrecording gage at different datum.

AVERAGE DISCHARGE.--23 years, 1,103 ft³/s (31.24 m³/s), 799,100 acre-ft/yr (985 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 24,800 ft³/s (702 m³/s) Apr. 1 (gage height, 17.47 ft or 5.325 m); minimum daily, 12 ft³/s (0.34 m³/s) Sept. 25-30.

Period of record: Maximum discharge, 50,500 ft³/s (1,430 m³/s) Dec. 22, 1964 (gage height, 24.0 ft or 7.32 m, from outside high-water marks); minimum, 10 ft³/s (0.28 m³/s) Sept. 22-24, 1911.

Flood of Jan. 18, 1953, reached a stage of 23.95 ft (7.300 m), from floodmarks (discharge, 50,000 ft³/s or 1,420 m³/s).

REMARKS.--Records good. No regulation or diversion above station. Records of chemical analyses, water temperatures, and sediment discharge for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1315-B: 1912-13.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FER	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	618	10,800	3,240	2,860	4,810	16,400	540	178	80	41	22
2	60	555	6,430	2,650	3,100	4,610	8,890	515	172	77	39	22
3	56	618	4,610	2,230	2,150	3,730	5,460	489	166	76	36	21
4	51	1,070	3,670	1,880	1,600	3,060	4,030	462	165	75	34	20
5	50	5,450	3,130	1,640	1,350	2,610	3,620	436	176	74	33	19
6	50	6,330	2,810	1,470	1,170	3,000	3,250	420	173	72	33	19
7	77	5,120	3,590	1,280	1,020	3,130	2,690	403	163	72	32	18
8	90	8,070	3,280	1,130	899	2,530	2,450	384	155	81	32	17
9	92	5,200	2,640	1,000	788	2,180	2,470	363	149	88	30	17
10	88	5,320	2,240	881	708	1,960	2,130	346	144	82	29	16
11	74	7,560	2,680	788	640	2,210	1,910	331	140	77	28	15
12	67	9,270	2,640	1,030	662	3,200	1,730	320	136	73	27	15
13	60	8,700	4,110	1,380	640	3,180	1,550	305	135	70	26	15
14	56	8,370	3,770	2,640	555	2,920	1,390	295	133	68	26	14
15	54	5,730	3,010	6,840	529	2,730	1,250	285	132	67	25	14
16	51	6,300	2,740	13,200	1,230	2,380	1,150	313	130	64	24	14
17	50	5,370	4,690	8,280	1,340	2,110	1,060	325	138	63	24	14
18	48	5,020	3,990	5,320	3,180	1,890	1,080	327	135	63	25	14
19	47	3,690	3,130	5,040	8,180	1,670	1,000	291	130	63	25	13
20	53	4,200	4,520	3,820	4,080	1,480	876	269	130	62	24	13
21	848	4,810	6,930	3,640	3,440	1,300	803	255	126	60	23	13
22	2,130	4,240	5,020	3,050	3,090	1,160	755	244	121	56	23	13
23	9,670	3,550	3,920	2,350	2,550	1,040	747	235	117	54	22	13
24	5,270	3,960	3,640	1,870	2,220	931	738	226	113	51	22	13
25	2,530	3,580	3,800	1,580	1,990	939	731	217	110	50	22	12
26	1,440	3,810	3,320	1,400	2,260	880	704	209	107	47	21	12
27	1,030	4,550	4,030	1,190	2,230	1,000	649	203	100	45	21	12
28	888	4,200	5,120	1,040	4,060	1,540	614	200	100	45	20	12
29	758	7,300	5,660	917	-----	4,650	584	193	94	44	20	12
30	625	14,000	5,150	813	-----	11,000	554	188	85	42	21	12
31	548	-----	3,920	1,260	-----	5,830	-----	184	-----	41	21	-----
TOTAL	26,976	156,561	128,990	84,849	58,521	85,660	71,265	9,773	4,053	1,982	829	456
MEAN	870	5,219	4,161	2,737	2,090	2,763	2,376	315	135	63.9	26.7	15.2
MAX	9,670	14,000	10,800	13,200	8,180	11,000	16,400	540	178	88	41	22
MIN	47	555	2,240	788	529	880	554	184	85	41	20	12
AC-FT	53,510	310,500	255,900	168,300	116,100	169,900	141,400	19,380	8,040	3,930	1,640	904
CAL YR 1973	TOTAL 525,423 MEAN 1,440 MAX 14,000 MIN 12 AC-FT 1,042,000											
WTR YR 1974	TOTAL 629,915 MEAN 1,726 MAX 16,400 MIN 12 AC-FT 1,249,000											

PEAK DISCHARGE (BASE, 9,000 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
10-23	1615	13.94	16,200	1-16	1530	14.93	15,700
11-8	0745	13.06	10,700	2-19	0430	13.25	11,100
11-12	1215	13.11	10,800	3-30	0300	14.09	13,300
11-30	1430	14.66	14,900	4-1	1230	17.47	24,800

11489500 ANTELOPE CREEK NEAR TENNANT, CALIF.

LOCATION.--Lat 41°32'48", long 121°55'02", in NW¼NW¼ sec.25, T.43 N., R.1 W., Siskiyou County, Shasta National Forest, on right bank 2.5 mi (4.0 km) south of Tennant, 4 mi (6 km) downstream from Frog Lake, and 17 mi (27 km) southeast of town of Mount Hebron.

DRAINAGE AREA.--18.6 mi² (48.2 km²).

PERIOD OF RECORD.--May 1952 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,080 ft (1,548 m), from topographic map.

AVERAGE DISCHARGE.--22 years, 37.9 ft³/s (1.073 m³/s), 27,460 acre-ft/yr (33.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,350 ft³/s (38.2 m³/s) Nov. 11 (gage height, 5.19 or 1.582 m); minimum daily, 11 ft³/s (0.31 m³/s) Oct. 1-6, 12-19.

Period of record: Maximum discharge, 1,350 ft³/s (38.2 m³/s) Nov. 11, 1973 (gage height, 5.19 ft or 1.582 m), from rating curve extended above 180 ft³/s (5.10 m³/s) on basis of slope-area measurement at gage height 4.00 ft (1.219 m); minimum daily, 3.6 ft³/s (0.10 m³/s) Jan. 5, 1960.

REMARKS.--Records good except those for the winter period, which are fair. No storage or diversion above station.

REVISIONS.--WSP 1929: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	20	170	31	53	110	121	80	149	95	36	25
2	11	19	96	35	50	151	99	86	165	83	36	24
3	11	18	72	28	47	103	83	88	179	74	35	24
4	11	16	48	26	46	70	72	94	182	72	34	24
5	11	20	46	24	43	34	70	103	195	71	43	24
6	11	37	49	23	42	26	64	116	196	68	39	24
7	14	54	52	22	40	26	61	132	178	65	36	24
8	12	100	47	21	38	33	60	157	155	88	34	23
9	12	220	44	20	37	33	58	161	149	134	33	23
10	12	480	43	20	36	24	53	154	158	91	32	23
11	12	930	43	20	35	24	54	152	180	74	31	23
12	11	700	41	20	35	24	55	148	193	66	31	23
13	11	265	40	27	33	25	52	134	189	62	30	23
14	11	135	39	130	32	24	52	130	193	61	30	23
15	11	115	37	350	32	25	53	122	185	59	29	22
16	11	145	38	640	32	27	55	110	173	57	28	22
17	11	118	40	460	31	32	58	100	168	55	28	21
18	11	84	39	290	30	29	58	91	169	54	28	21
19	11	64	36	230	30	28	53	84	177	53	28	21
20	13	50	35	205	29	28	55	81	147	51	28	21
21	43	43	35	154	28	28	60	84	136	49	27	21
22	138	38	35	126	28	28	67	90	135	47	27	21
23	57	35	33	109	30	28	68	95	132	45	27	21
24	36	33	32	96	27	29	59	102	120	44	27	20
25	30	32	32	86	27	32	56	120	109	42	26	20
26	26	29	32	77	28	40	54	148	99	42	26	20
27	24	27	32	71	27	51	53	175	94	41	26	20
28	25	28	31	66	24	41	57	179	91	40	25	20
29	23	66	31	62	-----	88	62	167	91	39	25	20
30	22	340	37	58	-----	300	68	153	95	38	25	20
31	21	-----	32	56	-----	162	-----	146	-----	37	25	-----
TOTAL	674	4,261	1,417	3,583	970	1,703	1,890	3,782	4,582	1,897	935	661
MEAN	21.7	142	45.7	116	34.6	54.9	63.0	122	153	61.2	30.2	22.0
MAX	138	930	170	640	53	300	121	179	196	134	43	25
MIN	11	16	31	20	24	24	52	80	91	37	25	20
AC-FT	1,340	8,450	2,810	7,110	1,920	3,380	3,750	7,500	9,090	3,760	1,850	1,310

CAL YR 1973 TOTAL 15,054 MEAN 41.2 MAX 930 MIN 11 AC-FT 29,860
WTR YR 1974 TOTAL 26,355 MEAN 72.2 MAX 930 MIN 11 AC-FT 52,280

DATE	TIME	PEAK DISCHARGE (BASE, 100 FT ³ /S)	DATE	TIME	G.H.	DISCHARGE
10-22	1100	2.86	5-8	2030	2.89	196
11-11	unknown	5.19	5-27	2130	2.93	206
1-16	unknown	4.61	6-5	2230	2.96	213
3-2	0100	2.84	7-9	0100	3.01	226
3-30	0730	3.49				

NOTE.--No gage-height record Oct. 30 to Dec. 4.

11510700 KLAMATH RIVER BELOW JOHN C. BOYLE POWERPLANT, NEAR KENO, OREG.

LOCATION.--Lat 42°05'05", long 122°04'20", in SE¼SE¼ sec.14, T.40 S., R.6 E., Klamath County, on right bank 0.7 mi (1.1 km) downstream from John C. Boyle powerplant, 8 mi (13 km) downstream from Spencer Creek, and 8.5 mi (13.7 km) southwest of Keno.

DRAINAGE AREA.--4,080 mi² (10,570 km²), approximately (not including Lost River or Lower Klamath Lake basins).

PERIOD OF RECORD.--January 1959 to current year. Prior to Oct. 1, 1961, published as "below Big Bend powerplant."

GAGE.--Water-stage recorder. Datum of gage is 3,274.82 ft (998.165 m) above mean sea level (levels by Pacific Power and Light Co.).

AVERAGE DISCHARGE.--15 years, 1,910 ft³/s (54.1 m³/s), 1,384,000 acre-ft/yr (1.71 km³/yr).

EXTREMES.--Current year: Maximum discharge, 9,480 ft³/s (268 m³/s) Apr. 1 (gage height, 8.77 ft or 2.673 m); minimum, 354 ft³/s (10.0 m³/s) Oct. 18, Nov. 10, 13; minimum daily, 407 ft³/s (11.5 m³/s) July 7, 14, Sept. 2. Period of record: Maximum discharge, 11,000 ft³/s (312 m³/s) Mar. 5, 1972 (gage height, 9.33 ft or 2.844 m); minimum, 283 ft³/s (8.01 m³/s) Feb. 17, 1968; minimum daily, 317 ft³/s (8.98 m³/s) July 25, 1968.

REMARKS.--Records excellent. Flow regulated by Upper Klamath Lake, usable capacity, 523,700 acre-ft (646 hm³), dead storage, 211,800 acre-ft (261 hm³). Large diurnal fluctuation caused by John C. Boyle powerplant and 2 powerplants below Upper Klamath Lake. Diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	730	1,200	2,920	4,210	4,460	2,960	7,970	3,200	651	784	600	976
2	820	1,200	2,920	4,040	4,390	2,950	8,330	3,160	464	689	997	407
3	827	983	2,920	3,980	4,320	3,050	8,470	2,840	934	689	754	1,060
4	920	766	2,910	4,100	4,350	3,370	7,860	2,540	790	411	748	833
5	1,160	1,170	2,910	3,900	4,340	3,310	7,940	2,540	784	689	990	784
6	899	1,140	2,920	3,800	4,190	3,160	7,940	2,390	689	411	1,090	1,080
7	778	1,090	3,100	3,700	3,740	3,160	8,660	2,160	736	407	1,090	1,210
8	1,160	778	3,530	3,600	3,350	3,710	7,890	2,240	595	827	1,080	1,200
9	1,450	1,110	3,440	3,550	3,070	3,730	7,760	2,220	411	827	990	1,220
10	1,470	853	3,490	3,500	2,940	3,680	7,660	1,970	827	411	892	1,240
11	1,460	866	3,340	3,350	2,910	3,630	7,450	1,590	736	866	651	1,260
12	1,460	934	3,260	3,200	2,910	3,630	7,080	1,590	833	1,060	1,090	1,250
13	1,030	1,160	3,290	3,000	2,920	3,730	6,080	1,400	976	640	1,070	1,230
14	820	1,670	3,370	3,200	2,940	4,000	6,120	2,020	927	407	983	1,230
15	1,210	1,770	3,680	3,600	2,950	4,210	6,440	1,790	645	580	990	1,550
16	1,470	1,600	3,730	4,040	2,910	4,860	6,360	2,290	645	590	962	1,640
17	1,390	962	3,730	5,000	2,910	5,260	4,740	2,430	934	590	913	1,510
18	1,180	827	3,710	5,860	2,840	5,500	4,640	2,870	736	625	689	1,320
19	1,190	1,170	3,710	6,100	3,010	6,150	4,480	2,840	736	536	1,200	1,250
20	1,150	2,380	3,820	5,590	3,430	6,240	3,500	3,200	833	580	976	1,060
21	853	2,810	3,870	5,080	3,790	6,390	3,520	3,810	736	600	1,010	934
22	1,240	2,940	3,850	6,460	3,820	6,000	3,200	3,650	411	580	969	927
23	1,470	2,940	3,850	6,220	3,820	6,170	3,760	3,110	411	550	976	1,070
24	1,380	2,920	4,000	6,170	3,820	6,080	3,170	2,850	724	545	927	1,390
25	1,200	2,920	3,970	6,270	3,830	6,030	2,810	2,780	635	610	969	1,340
26	1,220	2,920	3,970	6,240	3,170	5,760	2,910	2,740	645	610	1,020	1,350
27	1,050	2,920	3,970	6,150	2,960	5,410	3,130	2,750	411	560	976	1,220
28	859	2,920	3,970	5,860	2,960	5,230	3,130	2,340	872	541	1,020	1,250
29	1,220	2,920	3,930	5,230	-----	4,940	3,160	1,080	411	620	1,010	1,150
30	1,440	2,920	4,020	4,780	-----	5,450	3,200	962	411	560	879	1,360
31	1,210	-----	4,190	4,600	-----	6,320	-----	913	-----	585	976	-----
TOTAL	35,756	52,759	110,290	144,380	96,850	144,070	169,360	74,265	20,549	18,980	29,487	35,301
MEAN	1,153	1,759	3,558	4,657	3,459	4,647	5,645	2,396	685	612	951	1,177
MAX	1,440	2,940	4,190	6,460	4,460	6,390	8,660	3,810	976	1,060	1,200	1,640
MIN	730	766	2,910	3,000	2,840	2,950	2,810	913	411	407	600	407
AC-FT	70,920	104,600	218,800	286,400	192,100	285,800	335,900	147,300	40,760	37,650	58,490	70,020
CAL YR 1973	TOTAL	554,130	MEAN	1,518	MAX	4,190	MIN	351	AC-FT	1,099,000		
WTR YR 1974	TOTAL	932,047	MEAN	2,554	MAX	8,660	MIN	407	AC-FT	1,849,000		

RESERVOIRS IN KLAMATH RIVER BASIN, CALIF.

11511400 COPCO LAKE NEAR COPCO.--Lat 41°58'46", long 122°20'00", in SE¼SW¼ sec.29, T.48 N., R.4 W., Siskiyou County, 12.7 mi (20.4 km) northeast of Hornbrook. Drainage area, 4,300 mi² (11,137 km²). Period of record, October 1967 to current year. Gage is a pressure device and telemark read once daily. Datum of gage is at mean sea level (levels by Pacific Power and Light Co.). Extremes for current year: Maximum contents, 46,303 acre-ft (57.1 hm³) July 15 (elevation, 2,606.93 ft or 794.592 m); minimum, 38,102 acre-ft (47.0 hm³) Sept. 11 (elevation, 2,598.24 ft or 791.944 m). Extremes for period of record: Maximum contents, 46,818 acre-ft (57.7 hm³) June 24, 1969 (elevation, 2,607.45 ft or 794.751 m); minimum, 30,360 acre-ft (37.4 hm³) Aug. 19, 1971 (elevation, 2,589.24 ft or 789.200 m).

Reservoir is formed by gravity-type dam completed in 1922. Normal capacity at elevation 2,607.5 ft (794.77 m) is 46,867 acre-ft (57.8 hm³). Records, including extremes, represent contents at 0800 hours. Records of contents furnished by Pacific Power and Light Co.

11516510 IRON GATE RESERVOIR NEAR HORN BROOK.--Lat 41°55'58", long 122°26'06", in SW¼SW¼ sec.9, T.47 N., R.5 W., Siskiyou County, 6.6 mi (10.6 km) northeast of Hornbrook. Drainage area, 4,573 mi² (11,844 km²). Period of record, October 1967 to current year. Gage is a pressure device and telemark read once daily. Datum of gage is at mean sea level (levels by Pacific Power and Light Co.). Extremes for current year: Maximum contents, 61,704 acre-ft (76.1 hm³) Jan. 16 (elevation, 2,330.89 ft or 710.455 m); minimum, 53,825 acre-ft (66.4 hm³) Sept. 16 (elevation, 2,322.70 ft or 707.959 m). Extremes for period of record: Maximum contents, 61,776 acre-ft (76.2 hm³) Mar. 3, 1972 (elevation, 2,330.96 ft or 710.477 m); minimum, 50,103 acre-ft (61.8 hm³) Dec. 9, 1968 (elevation, 2,318.40 ft or 706.648 m).

Reservoir is formed by earth- and rockfill dam completed in 1962. Capacity is 58,794 acre-ft (72.5 hm³) at elevation 2,328.0 ft (709.57 m), crest of spillway. Records, including extremes, represent contents at 0800 hours. Records of contents furnished by Pacific Power and Light Co.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet) ^a	Contents (acre-feet)	Change in contents (acre-feet)	Elevation (feet) ^a	Contents (acre-feet)	Change in contents (acre-feet)
Copco Lake				Iron Gate Reservoir		
Sept. 30.....	2,606.99	46,362	--	2,326.78	57,612	--
Oct. 31.....	2,605.87	45,264	-1,098	2,325.19	56,106	-1,506
Nov. 30.....	2,601.35	40,959	-4,305	2,328.63	59,418	+3,312
Dec. 31.....	2,603.51	42,992	+2,033	2,328.99	59,774	+356
CAL YR 1973.....	--	--	+143	--	--	+475
Jan. 31.....	2,600.85	40,493	-2,499	2,329.12	59,905	+131
Feb. 28.....	2,603.71	43,182	+2,689	2,328.65	59,438	-467
Mar. 31.....	2,602.80	42,319	-863	2,329.81	60,602	+1,164
Apr. 30.....	2,604.50	43,938	+1,619	2,328.74	59,527	-1,075
May 31.....	2,605.56	44,963	+1,025	2,326.48	57,325	-2,202
June 30.....	2,606.23	45,616	+653	2,325.66	56,548	-777
July 31.....	2,604.65	44,083	-1,533	2,325.80	56,679	+131
Aug. 31.....	2,603.85	43,315	-768	2,326.52	57,364	+685
Sept. 30.....	2,599.84	39,561	-3,754	2,323.48	54,531	-2,833
WTR YR 1974.....	--	--	-6,801	--	--	-3,081

^a Elevation at 0800.

KLAMATH RIVER BASIN

11516530 KLAMATH RIVER BELOW IRON GATE DAM, CALIF.

LOCATION.--Lat 41°55'41", long 122°26'35", in SE¼NE¼ sec.17, T.47 N., R.5 W., Siskiyou County, on left bank 0.1 mi (0.2 km) downstream from Bogus Creek, 0.6 mi (1.0 km) downstream from Iron Gate Dam, and 5.9 mi (9.5 km) north-east of Hornbrook.

DRAINAGE AREA.--4,630 mi² (11,990 km²), approximately (not including Lost River and Lower Klamath Lake basins).

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,162.44 ft (659.112 m) above mean sea level (levels by Pacific Power and Light Co.).

AVERAGE DISCHARGE.--14 years, 2,311 ft³/s (65.4 m³/s), 1,674,000 acre-ft/yr (2,060 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 18,700 ft³/s (530 m³/s) Jan. 16 (gage height, 11.30 ft or 3.444 m); minimum daily, 720 ft³/s (20.4 m³/s) July 3, 7.

Period of record: Maximum discharge, 29,400 ft³/s (833 m³/s) Dec. 22, 1964 (gage height, 13.63 ft or 4.154 m), from rating curve extended above 15,000 ft³/s (425 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 647 ft³/s (18.3 m³/s) Oct. 30, Nov. 6, 1960, Sept. 24, Oct. 1, 1961.

REMARKS.--Records excellent. Flow regulated by Upper Klamath Lake, capacity, 523,700 acre-ft (646 hm³), other smaller reservoirs, and diversions above station. Iron Gate Dam 0.6 mi (1.0 km) upstream is a re-regulating reservoir (see sta 11516510). Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,360	1,310	3,960	4,730	5,530	4,410	12,500	3,990	962	730	1,030	1,270
2	1,360	1,310	3,770	4,570	5,320	3,950	11,400	4,110	872	730	1,030	1,270
3	1,340	1,310	3,530	4,390	4,950	3,750	10,700	3,570	896	720	1,030	1,270
4	1,330	1,310	3,300	4,250	5,080	4,020	9,660	3,340	830	725	1,030	1,270
5	1,330	1,340	3,070	4,340	5,050	4,150	9,640	3,360	866	730	1,040	1,270
6	1,320	1,340	3,130	3,960	4,960	4,060	9,520	3,370	920	725	1,050	1,300
7	1,320	1,340	3,360	3,950	4,490	3,980	10,000	3,080	908	720	1,040	1,340
8	1,340	1,570	3,540	3,790	3,850	3,980	9,120	2,950	908	730	1,050	1,340
9	1,340	1,760	3,500	3,680	3,640	4,380	8,750	3,080	908	730	1,030	1,340
10	1,330	1,760	3,720	3,360	3,600	4,360	8,940	2,980	908	740	1,030	1,340
11	1,340	1,880	3,790	3,360	3,410	4,340	8,400	2,490	902	740	1,030	1,340
12	1,340	1,880	3,680	3,390	3,340	4,340	8,550	2,470	980	735	1,020	1,340
13	1,340	1,850	3,600	3,470	3,000	4,390	7,190	2,430	1,200	735	1,020	1,340
14	1,340	1,830	3,820	3,810	2,940	4,680	7,120	2,450	1,220	730	1,030	1,340
15	1,340	1,820	4,060	7,650	3,300	5,120	7,320	2,560	1,210	730	1,030	1,330
16	1,340	1,830	4,150	16,000	3,460	5,820	7,440	2,540	1,210	735	1,030	1,330
17	1,340	1,830	4,580	11,200	3,430	6,440	5,980	2,630	1,200	725	1,030	1,330
18	1,330	1,840	4,460	9,720	3,480	6,550	5,230	3,300	766	725	1,030	1,330
19	1,330	1,820	4,230	9,610	3,750	7,100	4,960	3,440	765	750	1,030	1,340
20	1,330	2,000	4,310	7,990	4,020	7,120	4,550	3,610	765	735	1,030	1,340
21	1,330	3,190	4,600	6,550	4,200	7,340	4,220	4,340	765	730	1,030	1,340
22	1,360	3,340	4,550	7,420	4,410	6,900	3,860	4,260	765	730	1,030	1,350
23	1,340	3,360	4,390	7,540	4,410	6,860	4,600	3,750	760	725	1,030	1,360
24	1,340	3,410	4,360	7,230	4,330	6,920	4,090	3,190	750	725	1,030	1,340
25	1,340	3,370	4,570	7,210	4,310	6,810	3,640	3,240	725	735	1,020	1,340
26	1,320	3,400	4,570	7,170	3,920	6,660	3,540	3,240	725	725	1,020	1,340
27	1,320	3,150	4,570	7,100	3,740	6,180	3,780	3,190	725	813	1,020	1,340
28	1,310	3,220	4,700	6,840	3,900	6,240	3,790	3,080	730	852	1,020	1,340
29	1,310	3,460	4,900	6,100	-----	7,090	3,820	1,830	725	730	1,030	1,340
30	1,310	3,810	4,820	5,480	-----	9,270	3,620	1,700	725	730	1,030	1,340
31	1,310	-----	4,760	5,640	-----	8,620	-----	1,080	-----	740	1,030	-----
TOTAL	41,330	66,640	126,350	191,500	113,820	175,830	206,230	94,150	26,591	22,855	31,930	39,800
MEAN	1,333	2,221	4,076	6,177	4,065	5,672	6,874	3,037	886	737	1,030	1,327
MAX	1,360	3,810	4,900	16,000	5,530	9,270	12,500	4,340	1,220	852	1,050	1,360
MIN	1,310	1,310	3,070	3,360	2,940	3,750	3,540	1,080	725	720	1,020	1,270
AC-FT	81,980	132,200	250,600	379,800	225,800	348,800	409,100	186,700	52,740	45,330	63,330	78,940

CAL YR 1973 TOTAL 647,364 MEAN 1,774 MAX 4,900 MIN 655 AC-FT 1,284,000
WTR YR 1974 TOTAL 1,137,026 MEAN 3,115 MAX 16,000 MIN 720 AC-FT 2,255,000

11516900 LITTLE SHASTA RIVER NEAR MONTAGUE, CALIF.

LOCATION.--Lat 41°45'11", long 122°17'42", in NW¼NW¼ sec.15, T.45 N., R.4 W., Siskiyou County, on right bank 0.5 mi (0.8 km) downstream from Dry Creek, and 12 mi (19 km) east of Montague.

DRAINAGE AREA.--48.2 mi² (124.8 km²).

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,360 ft (1,024 m), from topographic map. Prior to May 27, 1965, water-stage recorder at site 0.2 mi (0.3 km) downstream at different datum.

AVERAGE DISCHARGE.--17 years, 19.9 ft³/s (0.564 m³/s), 14,420 acre-ft/yr (17.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 251 ft³/s (7.11 m³/s) Jan. 15 (gage height, 3.23 ft or 0.985 m); minimum daily, 3.0 ft³/s (0.085 m³/s) Oct. 12-14, 16-19.
Period of record: Maximum discharge, 5,910 ft³/s (167 m³/s) Dec. 22, 1964 (gage height, 12.2 ft or 3.72 m, present site and datum), from slope-area measurement of maximum flow; minimum daily, 0.60 ft³/s (0.017 m³/s) Jan. 4, 1966.

REMARKS.--No known diversion or regulation 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	7.4	42	19	24	16	95	58	46	17	9.4	6.7
2	3.2	6.1	29	12	23	17	87	60	44	17	9.3	6.5
3	3.2	6.1	24	8.0	23	16	82	61	43	16	9.2	6.5
4	3.2	6.2	21	7.0	21	15	79	62	42	16	9.1	6.5
5	3.1	7.6	20	5.9	20	16	84	64	43	16	13	6.4
6	3.6	19	22	5.1	19	18	77	69	42	15	12	6.3
7	5.5	22	48	5.1	18	19	68	79	41	15	9.7	6.3
8	3.6	41	39	5.2	18	16	63	85	39	15	9.0	6.2
9	3.3	17	27	5.4	17	17	58	85	37	16	8.7	6.2
10	3.1	21	22	5.6	17	18	58	84	34	16	8.6	6.2
11	3.1	80	23	6.0	16	19	57	85	32	16	8.5	6.1
12	3.0	76	20	7.0	16	21	56	85	30	16	8.1	5.9
13	3.0	30	18	8.0	15	22	52	80	29	15	8.1	6.0
14	3.0	23	18	38	15	23	49	76	28	14	8.1	6.0
15	3.1	20	21	112	14	30	49	73	27	14	8.0	6.0
16	3.0	24	27	192	13	37	51	70	26	14	7.7	5.9
17	3.0	25	69	117	12	51	53	68	26	13	7.5	5.9
18	3.0	22	39	104	12	70	55	65	25	13	7.5	5.8
19	3.0	17	26	86	12	64	54	64	24	12	7.6	5.6
20	3.2	16	42	65	11	59	50	61	24	12	7.6	5.6
21	3.9	16	36	48	12	55	50	59	23	12	7.4	5.6
22	12	15	26	45	12	52	54	57	22	12	7.2	5.6
23	15	14	23	43	12	51	60	56	21	11	7.2	5.6
24	10	14	24	39	13	50	61	54	21	11	7.2	5.5
25	8.1	14	40	38	15	50	60	53	20	11	7.2	5.6
26	6.2	14	29	33	16	50	56	53	19	11	7.2	5.6
27	5.8	17	27	34	16	50	52	53	19	11	7.0	5.5
28	7.9	30	33	34	16	49	49	53	18	11	7.1	5.3
29	8.3	67	49	28	-----	103	50	52	18	10	7.0	5.3
30	6.8	75	30	26	-----	124	54	50	17	9.8	6.9	5.3
31	6.4	-----	25	25	-----	89	-----	48	-----	9.5	6.9	-----
TOTAL	156.0	762.4	939	1,206.3	448	1,287	1,823	2,022	880	417.3	255.0	177.5
MEAN	5.03	25.4	30.3	38.9	16.0	41.5	60.8	65.2	29.3	13.5	8.23	5.92
MAX	15	80	69	192	24	124	95	85	46	17	13	6.7
MIN	3.0	6.1	18	5.1	11	15	49	48	17	9.5	6.9	5.3
AC-FT	309	1,510	1,860	2,390	889	2,550	3,620	4,010	1,750	828	506	352

CAL YR 1973 TOTAL 4,819.8 MEAN 13.2 MAX 80 MIN 3.0 AC-FT 9,560
WTR YR 1974 TOTAL 10,373.5 MEAN 28.4 MAX 192 MIN 3.0 AC-FT 20,580

KLAMATH RIVER BASIN

11517500 SHASTA RIVER NEAR YREKA, CALIF.

LOCATION.--Lat 41°49'23", long 122°35'40", in SE¼NE¼ sec.24, T.46 N., R.7 W., Siskiyou County, on right bank 0.5 mi (0.8 km) upstream from mouth, and 7 mi (11.3 km) north of Yreka.

DRAINAGE AREA.--793 mi² (2,054 km²).

PERIOD OF RECORD.--October 1933 to December 1941, December 1944 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,000 ft (610 m) from topographic map. Prior to Nov. 2, 1933, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--37 years, 188 ft³/s (5.32 m³/s), 136,200 acre-ft/yr (168 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 7,260 ft³/s (206 m³/s) Jan. 16 (gage height, 10.10 ft or 3.078 m); minimum daily, 38 ft³/s (1.08 m³/s) Sept. 6.
Period of record: Maximum discharge, 21,500 ft³/s (609 m³/s) Dec. 22, 1964 (gage height, 12.92 ft or 3.938 m in gage well, 13.85 ft or 4.221 m, from floodmarks), from rating curve extended above 4,100 ft³/s (116 m³/s) on basis of slope-area measurement of maximum flow; minimum, 3.4 ft³/s (0.10 m³/s) Aug. 13, 1939, when about 2 ft³/s (0.06 m³/s) was being diverted around gage.

REMARKS.--Records good. Flow partly regulated by Lake Dwinnell beginning in 1928; storage limited to 50,000 acre-ft (61.6 hm³). Many diversions above station for irrigation. Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1929: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107	177	438	332	609	654	2,640	312	139	77	49	62
2	105	170	392	292	564	792	2,210	299	138	76	51	57
3	103	172	350	280	543	603	1,710	293	143	74	50	54
4	109	171	306	268	532	492	1,310	276	142	70	42	48
5	105	224	287	260	513	450	1,020	267	160	66	45	39
6	107	272	280	252	494	462	867	269	157	66	84	38
7	105	322	288	240	448	513	783	271	144	53	86	45
8	109	365	300	237	396	500	743	259	134	66	75	50
9	114	347	276	237	385	499	796	252	131	56	60	69
10	119	392	264	233	360	507	819	263	133	90	62	83
11	119	432	268	233	351	525	741	278	124	91	76	76
12	122	462	272	256	341	634	681	268	132	95	65	79
13	127	432	416	340	331	651	622	249	134	109	58	83
14	130	405	376	528	331	602	597	238	120	93	51	75
15	130	378	320	1,630	323	547	581	206	109	94	52	83
16	130	420	300	5,800	338	531	496	217	104	80	58	92
17	127	390	440	5,020	330	545	466	225	123	76	53	70
18	127	372	440	3,310	355	546	452	225	114	65	49	54
19	132	350	364	2,950	463	524	469	187	116	126	53	58
20	130	332	372	2,580	388	502	454	188	154	121	62	62
21	140	312	488	2,140	389	490	431	174	164	92	58	71
22	272	296	440	1,710	371	495	418	148	135	74	52	75
23	480	285	400	1,630	342	434	442	141	130	67	77	78
24	396	273	376	1,130	335	373	491	131	124	58	55	90
25	260	266	360	858	338	371	466	122	112	45	57	87
26	212	260	352	731	345	395	437	117	118	52	60	78
27	191	258	348	669	335	435	407	137	113	68	49	77
28	188	256	356	635	384	628	371	159	96	74	54	92
29	195	276	436	588	-----	1,180	346	172	103	75	52	110
30	191	350	404	572	-----	2,240	319	148	95	67	52	116
31	181	-----	364	602	-----	2,060	-----	141	-----	55	52	-----
TOTAL	5,063	9,417	11,073	36,543	11,234	20,180	22,585	6,632	3,841	2,371	1,803	2,151
MEAN	163	314	357	1,179	401	651	753	214	128	76.5	58.2	71.7
MAX	480	462	488	5,800	609	2,240	2,640	312	164	126	86	116
MIN	103	170	264	233	323	371	319	117	95	45	42	38
AC-FT	10,040	18,680	21,960	72,480	22,280	40,030	44,800	13,150	7,620	4,700	3,580	4,270
CAL YR 1973	TOTAL	52,047.5	MEAN	143	MAX	488	MIN	5.7	AC-FT	103,200		
WTR YR 1974	TOTAL	132,893.0	MEAN	364	MAX	5,800	MIN	38	AC-FT	263,600		

		PEAK DISCHARGE (BASE, 400 FT ³ /S)					
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
10-23	1130	4.36	544	1-16	2300	10.10	7,260
11-12	unknown	4.35	492	2-19	0500	4.22	488
12-1	unknown	4.23	492	3-2	0200	5.07	902
12-13	0400	4.14	456	3-12	1530	4.65	665
12-17	2130	4.26	504	3-30	1200	6.92	2,420
12-21	0930	4.31	524	4-1	1430	7.65	3,230
12-29	1000	4.14	456				

11518050 EAST FORK SCOTT RIVER AT CALLAHAN, CALIF.

LOCATION.--Lat 41°18'15", long 122°46'32", in SE¼NW¼ sec.22, T.40 N., R.8 W., Siskiyou County, on right bank 1.0 mi (1.6 km) downstream from Big Mill Creek, and 1.4 mi (2.3 km) east of Callahan.

DRAINAGE AREA.--110 mi² (285 km²).

PERIOD OF RECORD.--October 1959 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 3,200 ft (975 m) from topographic map. Prior to July 26, 1961, at site 1.6 mi (2.6 km) downstream at different datum. July 26, 1961, to Aug. 23, 1971, at datum 0.46 ft (0.140 m) higher.

AVERAGE DISCHARGE.--15 years, 110 ft³/s (3.12 m³/s), 79,700 acre-ft/yr (98.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 12,500 ft³/s (354 m³/s) Jan. 16 (gage height, 11.25 ft or 3.429 m), from rating curve extended as explained below; minimum daily, 1.9 ft³/s (0.054 m³/s) Oct. 3-5.
Period of record: Maximum discharge, 12,500 ft³/s (354 m³/s) Jan. 16, 1974 (gage height, 11.25 ft or 3.429 m in gage well, 11.58 ft or 3.530 m, from floodmarks), from rating curve extended above 3,400 ft³/s (96.3 m³/s) on basis of slope-area measurement at gage height 11.25 ft (3.429 m); minimum daily, 0.72 ft³/s (0.02 m³/s) Aug. 22, 23, Sept. 23, 24, 1970.

REMARKS.--Records good. Several small diversions upstream from station for irrigation.

REVISIONS.--WSP 1929: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	41	620	154	156	360	870	367	391	133	31	5.6
2	2.1	37	324	130	139	241	574	433	451	118	31	4.7
3	1.9	35	254	128	133	183	457	445	487	108	30	5.6
4	1.9	32	199	116	130	156	379	439	462	103	27	5.6
5	1.9	46	170	110	117	149	285	439	462	101	33	5.6
6	2.2	87	170	103	113	152	331	543	475	97	35	5.6
7	3.5	128	250	91	107	152	295	636	405	86	30	5.6
8	4.0	274	219	88	102	136	274	667	325	94	26	4.7
9	4.4	559	170	85	100	143	258	605	312	92	24	4.7
10	5.2	1,060	136	84	94	149	232	499	361	84	22	3.8
11	5.2	2,210	147	83	92	246	222	469	432	79	20	3.8
12	4.9	1,530	145	83	92	262	216	451	435	72	20	3.8
13	4.6	582	199	122	92	187	206	397	405	69	18	3.8
14	4.0	358	136	716	84	175	206	367	405	65	17	3.8
15	3.2	352	124	3,120	82	204	211	343	361	62	16	3.8
16	3.0	475	143	7,540	97	258	222	301	307	61	15	3.8
17	3.0	336	337	1,780	82	286	243	253	290	60	14	3.8
18	2.8	267	270	1,330	94	286	269	211	279	60	14	2.9
19	3.0	191	216	911	100	250	243	187	337	58	14	3.8
20	4.3	163	277	623	89	221	216	178	269	57	11	3.8
21	3.0	126	398	485	89	196	232	175	232	55	8.3	4.7
22	2.35	122	274	357	87	187	269	190	206	51	9.2	4.7
23	2.75	109	222	330	71	179	307	253	195	47	8.3	4.7
24	1.05	105	194	270	80	175	274	313	184	41	8.3	4.7
25	79	190	204	250	82	229	237	415	166	43	7.4	4.7
26	5.8	91	188	229	84	274	211	551	145	45	8.3	4.7
27	4.8	86	175	217	82	470	195	589	130	47	7.4	4.7
28	5.1	86	178	217	486	360	190	529	125	44	5.6	4.7
29	4.5	205	263	175	-----	1,800	227	445	130	39	5.6	4.7
30	4.1	1,310	222	204	-----	2,580	285	427	133	35	6.5	4.7
31	4.1	-----	188	183	-----	810	-----	451	-----	33	6.5	-----
TOTAL	1,983.7	11,153	7,014	20,354	3,156	11,456	8,726	12,568	9,317	2,139	529.4	135.6
MEAN	35.9	372	226	657	113	370	291	405	311	69.0	17.1	4.52
MAX	274	2,210	620	7,540	486	2,580	870	667	487	133	35	5.6
MIN	1.9	32	124	83	71	136	190	175	125	33	5.6	2.9
AC-FT	2,150	22,120	13,910	40,370	6,260	22,720	17,210	24,930	18,480	4,240	1,050	269
CAL YR 1973	TOTAL 43,271.7	MEAN 119	MAX 2,210	MIN 1.1	AC-FT 85,830							
WTR YR 1974	TOTAL 87,631.7	MEAN 240	MAX 7,540	MIN 1.9	AC-FT 173,800							

PEAK DISCHARGE (BASE, 550 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
10-22	2315	5.63	588	2-28	1430	8.86	899
11-11	1500	7.98	3,210	3-29	2215	10.51	8,060
11-30	1430	7.21	2,110	5-8	2200	7.45	740
1-16	0830	11.25	12,500	5-27	2200	7.39	682

11519500 SCOTT RIVER NEAR FORT JONES, CALIF.

LOCATION.--Lat 41°38'27", long 123°00'50", in NE¼NE¼ sec.29, T.44 N., R.10 W., Siskiyou County, on right bank 1.8 mi (2.9 km) upstream from Snow Creek, and 9.0 mi (14.5 km) west of Fort Jones.

DRAINAGE AREA.--653 mi² (1,691 km²).

PERIOD OF RECORD.--December 1941 to current year. Monthly discharge only October to December 1941, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 2,623.80 ft (799.734 m) above mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1966, water-stage recorder 400 ft (122 m) downstream at datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE.--33 years, 684 ft³/s (19.37 m³/s), 495,600 acre-ft/yr (611 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 36,700 ft³/s (1,040 m³/s) Jan. 16 (gage height, 23.67 ft or 7.215 m); minimum daily, 47 ft³/s (1.33 m³/s) Oct. 20.

Period of record: Maximum discharge, 54,600 ft³/s (1,550 m³/s) Dec. 22, 1964 (gage height, 25.34 ft or 7.724 m, from floodmarks, site and datum then in use), from rating curve extended above 15,000 ft³/s (425 m³/s) on basis of slope-area measurement at 21.40 ft (6.523 m); minimum, 20 ft³/s (0.57 m³/s) Sept. 14, 15, 1955.

REMARKS.--Records good. Diversions for irrigation of about 30,000 acres (121 km²) above station. Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1445: 1942-43(M), 1946(M), 1948. WSP 1715: 1951-52(M). WSP 1929: Drainage area.

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	224	3,700	1,950	2,110	2,580	6,540	1,920	1,780	771	181	74
2	66	223	2,170	1,650	1,680	2,290	5,740	1,990	2,020	674	164	72
3	59	201	1,660	1,490	1,500	1,810	3,910	1,930	2,200	610	151	72
4	55	190	1,360	1,350	1,440	1,540	3,170	1,870	2,190	542	136	71
5	52	290	1,220	1,240	1,340	1,470	2,850	1,970	2,300	513	134	70
6	50	778	1,160	1,120	1,260	1,430	2,670	2,360	2,280	498	140	69
7	49	1,460	1,550	1,000	1,210	1,460	2,310	2,790	2,100	484	138	68
8	71	2,800	1,810	944	1,160	1,360	2,170	3,120	1,750	474	132	69
9	58	2,530	1,480	908	1,120	1,300	2,090	3,100	1,600	493	130	70
10	54	3,350	1,300	848	1,080	1,270	1,920	2,550	1,740	464	130	70
11	52	5,690	1,300	830	1,040	1,280	1,770	2,250	1,960	435	126	73
12	53	6,210	1,310	836	1,020	1,510	1,690	2,170	2,110	398	128	70
13	52	3,360	1,640	1,290	982	1,400	1,610	1,960	2,050	366	128	73
14	52	2,310	1,510	2,850	934	1,380	1,560	1,760	1,960	348	124	74
15	52	1,850	1,320	13,100	934	1,630	1,560	1,650	1,860	337	124	74
16	51	1,980	1,370	30,900	1,010	1,800	1,590	1,490	1,660	314	116	74
17	50	1,790	3,170	19,600	952	1,960	1,640	1,340	1,660	304	112	70
18	50	1,490	2,880	11,000	1,130	2,030	1,760	1,190	1,650	285	108	67
19	48	1,210	2,160	9,760	2,010	1,920	1,720	1,040	1,640	362	104	68
20	47	1,100	3,010	6,120	1,470	1,810	1,580	951	1,540	336	96	70
21	51	1,020	4,490	4,640	1,350	1,740	1,540	903	1,310	299	92	70
22	100	877	3,090	3,670	1,290	1,650	1,650	935	1,230	282	88	70
23	716	779	2,390	3,090	1,190	1,600	1,850	1,050	1,190	272	88	70
24	580	736	2,080	2,740	1,120	1,560	1,760	1,160	1,160	259	84	70
25	434	672	2,160	2,480	1,120	1,620	1,580	1,440	1,010	239	82	69
26	325	627	1,970	2,230	1,160	1,730	1,440	2,020	893	223	82	66
27	271	582	1,940	2,060	1,150	1,850	1,340	2,430	791	279	78	65
28	258	604	2,120	1,910	1,630	2,140	1,300	2,380	737	292	78	67
29	277	1,010	3,690	1,780	-----	3,250	1,350	2,120	728	251	84	68
30	246	2,950	2,980	1,680	-----	9,540	1,560	1,870	747	216	82	72
31	222	-----	2,310	1,870	-----	6,050	-----	1,760	-----	205	76	-----
TOTAL	4,564	48,833	66,300	136,936	35,392	65,960	65,220	57,469	47,846	11,825	3,516	2,105
MEAN	147	1,628	2,139	4,417	1,264	2,128	2,174	1,854	1,595	381	113	70.2
MAX	716	6,210	4,490	30,900	2,110	9,540	6,540	3,120	2,300	771	181	74
MIN	47	190	1,160	830	934	1,270	1,300	903	728	205	76	65
AC-FT	9,050	96,860	131,500	271,600	70,200	130,800	129,400	114,000	94,900	23,450	6,970	4,180
CAL YR 1973	TOTAL	233,579	MEAN	640	MAX	6,210	MIN	22	AC-FT	463,300		
WTR YR 1974	TOTAL	545,966	MEAN	1,496	MAX	30,900	MIN	47	AC-FT	1,083,000		

PEAK DISCHARGE (BASE, 2,300 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-8	1445	10.17	3,430	1-16	1930	23.67	36,700
11-12	0545	13.58	7,330	2-1	0100	9.00	2,430
12-1	0215	11.10	4,550	3-1	0100	9.36	2,750
12-17	1600	10.53	3,920	3-30	1500	15.21	11,700
12-21	0430	11.32	4,890	5-9	0530	9.92	3,300
12-29	1500	10.91	4,370	5-27	0900	9.27	2,610

11520500 KLAMATH RIVER NEAR SEIAD VALLEY, CALIF.

LOCATION.--Lat 41°51'14", long 123°13'52", in SW¼SW¼ sec.3, T.46 N., R.12 W., Siskiyou County, Klamath National Forest, on left bank 0.4 mi (0.6 km) upstream from Rittenbender Creek, 1.4 mi (2.3 km) downstream from Grider Creek, and 2.2 mi (3.5 km) west of Seiad Valley.

DRAINAGE AREA.--6,940 mi² (17,975 km²), approximately (not including Lost River or Lower Klamath Lake basins).

PERIOD OF RECORD.--October 1912 to September 1925, July 1951 to current year. Monthly discharges only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Altitude of gage is 1,320 ft (402 m) from river-profile map. November 1912 to June 1925, nonrecording gage at site 3.5 mi (5.6 km) upstream at different datum.

AVERAGE DISCHARGE.--36 years, 4,201 ft³/s (119 m³/s), 3,044,000 acre-ft/yr (3,750 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 126,000 ft³/s (3,570 m³/s) Jan. 16 (gage height, 29.65 ft or 9.037 m, from floodmarks); minimum daily, 1,250 ft³/s (35.4 m³/s) Oct. 1.
Period of record: Maximum discharge, 165,000 ft³/s (4,670 m³/s) Dec. 23, 1964 (gage height, 33.75 ft or 10.287 m, from floodmarks), from rating curve extended above 49,000 ft³/s (1,390 m³/s) on basis of slope-area measurements at gage heights 20.1 ft (6.13 m) and 29.2 ft (8.90 m); minimum daily, 320 ft³/s (9.06 m³/s) Nov. 25, 1917.

REMARKS.--Records good. Flow regulated considerably by reservoirs and powerplants above station. Large diversions above station for irrigation. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,250	1,910	12,200	9,880	11,700	11,700	31,600	8,820	5,170	2,530	1,360	1,400
2	1,520	1,900	9,250	9,030	10,600	11,400	31,100	9,060	5,360	2,370	1,530	1,600
3	1,540	1,850	7,810	8,530	9,840	9,360	24,300	8,490	5,620	2,230	1,520	1,590
4	1,510	1,880	6,880	7,830	9,570	8,680	20,900	8,020	5,500	2,110	1,500	1,590
5	1,510	2,650	6,220	7,680	9,260	8,470	18,900	8,200	5,610	2,050	1,480	1,570
6	1,510	4,300	5,920	7,080	8,920	8,420	18,500	9,010	5,710	2,020	1,530	1,570
7	1,510	4,670	6,930	6,720	8,370	8,280	17,800	9,480	5,420	1,970	1,540	1,610
8	1,510	7,450	7,770	6,410	7,490	7,820	16,900	9,780	4,900	1,980	1,510	1,630
9	1,560	7,240	7,080	6,240	6,880	7,930	15,600	9,800	4,650	2,000	1,490	1,640
10	1,530	8,850	6,770	5,750	6,680	8,040	15,500	9,080	4,790	1,930	1,460	1,670
11	1,520	13,500	6,920	5,570	6,440	8,060	14,800	8,160	5,100	1,910	1,460	1,670
12	1,520	14,600	6,940	5,680	6,240	8,680	14,400	7,690	5,310	1,840	1,450	1,680
13	1,520	9,650	7,720	6,620	5,910	8,730	13,400	7,190	5,430	1,800	1,430	1,690
14	1,530	7,200	7,790	10,700	5,530	8,970	12,600	6,810	5,370	1,730	1,420	1,670
15	1,530	6,150	7,520	39,400	5,670	10,100	12,700	6,730	5,170	1,690	1,420	1,670
16	1,530	6,280	7,670	108,000	6,220	11,200	12,800	6,410	4,840	1,660	1,410	1,670
17	1,520	6,060	11,500	67,600	6,040	12,400	12,000	6,140	4,810	1,620	1,390	1,670
18	1,520	5,450	12,000	39,600	6,440	12,600	10,900	6,410	4,690	1,580	1,390	1,650
19	1,510	4,880	9,950	36,400	9,020	12,800	10,100	6,580	4,300	1,620	1,380	1,630
20	1,530	4,590	10,700	26,300	8,180	12,800	9,810	6,420	4,080	1,740	1,390	1,650
21	1,650	5,160	15,000	20,400	8,080	12,800	8,950	7,060	3,750	1,600	1,380	1,640
22	2,370	5,650	13,000	17,500	8,180	12,400	8,800	7,220	3,570	1,520	1,360	1,650
23	3,020	5,500	10,500	16,600	7,880	11,600	9,500	6,980	3,430	1,480	1,360	1,660
24	2,990	5,500	9,810	15,400	7,660	11,700	9,480	6,500	3,340	1,440	1,370	1,680
25	2,520	5,400	9,920	14,600	7,580	11,700	8,300	6,680	3,090	1,410	1,330	1,650
26	2,220	5,330	9,490	14,100	7,600	11,900	7,640	7,600	2,860	1,360	1,330	1,650
27	2,040	5,120	9,340	13,700	7,220	11,600	7,580	8,280	2,680	1,380	1,330	1,630
28	1,990	5,120	9,790	13,300	8,320	12,600	7,520	8,320	2,560	1,670	1,320	1,640
29	2,030	6,200	12,400	12,000	-----	15,600	7,670	7,140	2,520	1,470	1,320	1,670
30	1,970	10,100	12,300	10,900	-----	33,200	8,050	5,690	2,540	1,380	1,330	1,690
31	1,910	-----	10,800	10,900	-----	27,200	-----	5,180	-----	1,320	1,320	-----
TOTAL	54,890	180,180	288,290	580,320	217,520	368,740	418,100	234,930	132,170	54,420	43,810	49,080
MEAN	1,771	6,006	9,300	18,720	7,769	11,890	13,940	7,578	4,406	1,755	1,413	1,636
MAX	3,020	14,600	15,000	108,000	11,700	33,200	31,600	9,800	5,710	2,530	1,540	1,690
MIN	1,250	1,850	5,920	5,570	5,530	7,820	7,520	5,180	2,520	1,320	1,320	1,400
AC-FT	108,900	357,400	571,800	1,151M	431,500	731,400	829,300	466,000	262,200	107,900	86,900	97,350
CAL YR 1973	TOTAL	1,198,141	MEAN	3,283	MAX	15,000	MIN	802	AC-FT	2,377,000		
ATR YR 1974	TOTAL	2,622,450	MEAN	7,185	MAX	108,000	MIN	1,250	AC-FT	5,202,000		

11521500 INDIAN CREEK NEAR HAPPY CAMP, CALIF.

LOCATION.--Lat 41°50'07", long 123°22'55", in SW¼SW¼ sec.26, T.17 N., R.7 E., Siskiyou County, on left bank 0.2 mi (0.3 km) upstream from Slater Creek, 3.0 mi (4.8 km) north of Happy Camp, and 3.5 mi (5.6 km) upstream from mouth.

DRAINAGE AREA.--120 mi² (311 km²).

PERIOD OF RECORD.--September 1911 to September 1921 (fragmentary), December 1956 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Altitude of gage is 1,200 ft (366 m) from topographic map. Prior to December 1956, nonrecording gages at sites 1.0 mi (1.6 km) upstream at different datums. December 1956 to Sept. 20, 1969, water-stage recorder at site 0.8 mi (1.3 km) upstream at different datum.

AVERAGE DISCHARGE.--20 years (1911-14, 1957-74), 458 ft³/s (13.0 m³/s), 331,800 acre-ft/yr (409 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 17,200 ft³/s (487 m³/s) Jan. 15 (gage height, 16.00 ft or 4.877 m); minimum daily, 41 ft³/s (1.16 m³/s) Oct. 17, 18.

Period of record: Maximum discharge, 39,000 ft³/s (1,100 m³/s) Dec. 22, 1964 (gage height, 36.59 ft or 11.153 m, from floodmarks in gage well, site and datum then in use, 24.3 ft or 7.41 m, from floodmarks, present site and datum), from rating curve extended above 6,000 ft³/s (170 m³/s) on basis of slope-area measurement at gage height 29.0 ft (8.84 m); minimum observed, 20 ft³/s (0.57 m³/s) Aug. 19 to Sept. 6, 1914.

Flood of Dec. 21, 1955, reached a stage of 29.0 ft (8.84 m), at 1956-69 site and datum, from floodmarks (discharge, 23,000 ft³/s or 651 m³/s on basis of slope-area measurement of peak flow).

REMARKS.--Records good. Small diversions above station for irrigation.

REVISIONS (WATER YEARS).--WSP 1635: 1957-58.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	151	2,020	1,100	872	1,390	3,240	944	664	213	93	61
2	43	120	1,320	917	754	1,210	2,350	835	727	196	91	61
3	42	108	1,040	812	703	915	1,640	795	706	184	90	60
4	42	134	872	734	685	770	1,330	814	681	179	88	59
5	42	917	766	673	629	698	1,280	938	721	177	87	58
6	45	2,860	734	614	591	718	1,170	1,110	647	172	88	56
7	52	1,120	2,060	569	563	663	1,050	1,180	590	165	85	55
8	49	3,020	1,550	537	537	616	985	1,210	520	182	83	55
9	49	3,360	1,160	510	516	568	907	1,060	520	173	81	55
10	47	3,260	568	482	499	542	833	894	560	160	80	55
11	45	4,260	998	457	485	629	801	846	567	155	79	54
12	44	3,640	1,080	530	474	936	778	832	557	149	77	53
13	43	2,020	1,410	1,220	450	913	748	744	522	145	76	53
14	43	1,470	1,190	3,660	436	1,240	741	688	497	141	76	53
15	42	1,800	1,030	13,300	451	1,780	749	657	454	138	75	52
16	42	2,500	1,050	13,300	648	1,620	753	600	429	135	73	51
17	41	1,620	2,420	5,860	551	1,510	774	547	421	133	72	50
18	41	1,180	1,710	5,370	730	1,440	901	501	416	131	71	50
19	42	911	1,290	4,190	1,240	1,260	811	471	397	128	72	49
20	49	811	2,290	2,580	891	1,180	757	453	349	124	72	49
21	175	713	4,080	1,870	817	1,090	767	456	323	120	70	48
22	457	641	2,330	1,540	744	1,040	808	491	313	116	69	48
23	715	593	1,650	1,320	662	982	783	539	300	115	69	48
24	458	588	1,350	1,150	600	951	722	559	284	112	68	47
25	298	588	1,480	1,030	577	1,100	662	666	266	109	67	47
26	195	571	1,270	920	634	1,140	614	800	248	107	66	46
27	149	552	1,270	837	654	1,290	590	826	234	105	65	46
28	152	988	1,480	779	1,350	1,550	612	734	228	105	64	46
29	150	1,790	1,980	726	-----	3,110	703	661	224	101	63	46
30	125	2,600	1,670	674	-----	4,800	880	617	223	97	63	46
31	113	-----	1,300	772	-----	2,450	-----	604	-----	93	62	-----
TOTAL	3,874	44,936	46,818	69,023	18,743	40,101	29,739	23,072	13,588	4,360	2,335	1,557
MEAN	125	1,498	1,510	2,227	669	1,294	991	744	453	141	75.3	51.9
MAX	715	4,260	4,080	13,300	1,350	4,800	3,240	1,210	727	213	93	61
MIN	41	108	734	457	436	542	590	453	223	93	62	46
AC-FT	7,680	89,130	92,860	136,900	37,180	79,540	58,990	45,760	26,950	8,650	4,630	3,090

CAL YR 1973 TOTAL 172,172 MEAN 474 MAX 4,260 MIN 39 AC-FT 343,500
WTR YR 1974 TOTAL 298,146 MEAN 817 MAX 13,300 MIN 41 AC-FT 591,400

PEAK DISCHARGE (BASE, 2,000 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-8	0630	10.14	4,850	12-21	0800	10.21	4,950
11-11	1200	10.17	4,890	12-29	1200	8.02	2,300
11-16	0045	8.60	2,910	1-15	1900	16.00	17,200
11-30	1930	8.73	3,050	1-18	1930	11.30	6,780
12-7	1200	8.61	2,920	3-30	0130	11.24	6,670
12-17	0915	8.87	3,210	4-1	1045	9.53	3,960

11522500 SALMON RIVER AT SOMES BAR, CALIF.

LOCATION.--Lat 41°22'40", long 123°28'35", in NE¼ sec.3, T.11 N., R.6 E., Siskiyou County, Klamath National Forest, on left bank at Somes Bar, 1.0 mi (1.6 km) upstream from mouth.

DRAINAGE AREA.--751 mi² (1,945 km²).

PERIOD OF RECORD.--September 1911 to September 1915, October 1927 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 482.97 ft (147.209 m) above mean sea level. Prior to October 1927, nonrecording gage at different datum, October 1927 to Dec. 22, 1964, water-stage recorder at site 0.5 mi (0.8 km) upstream at datum 6.54 ft (1.993 m) higher.

AVERAGE DISCHARGE.--51 years, 1,831 ft³/s (51.85 m³/s), 1,327,000 acre-ft/yr (1.64 km³/yr).

EXTREMES.--Current year: Maximum discharge, 63,500 ft³/s (1,800 m³/s) Jan. 16 (gage height, 26.73 ft or 8.147 m); minimum daily, 177 ft³/s (5.01 m³/s) Sept. 30.

Period of record: Maximum discharge, 133,000 ft³/s (3,770 m³/s) Dec. 22, 1964 (gage height, 46.6 ft or 14.20 m, present site and datum, from floodmarks), from rating curve extended above 33,000 ft³/s (935 m³/s); minimum, 70 ft³/s (1.98 m³/s) Aug. 25, Sept. 4, 5, 1931.

REMARKS.--Records good except those for period of no gage-height record, which are fair. No storage or large diversion above station. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1285: 1912, 1914, 1915(M), 1946(M), 1948(M). WRD Calif. 1972: 1970-71(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	213	921	12,000	6,030	4,090	6,270	15,200	4,460	4,120	2,010	505	248
2	205	816	7,620	5,240	3,700	5,980	13,600	4,200	4,570	1,700	673	244
3	200	726	5,590	4,810	3,470	4,970	9,590	4,060	4,610	1,470	542	236
4	198	756	4,630	4,350	3,330	4,300	7,480	4,080	4,430	1,430	496	233
5	194	2,160	4,090	4,050	3,100	3,930	6,500	4,510	4,690	1,390	474	229
6	211	6,060	3,940	3,710	2,940	3,820	5,790	5,260	4,540	1,350	507	226
7	305	6,810	5,860	3,450	2,790	3,760	5,080	5,860	4,150	1,310	457	222
8	304	12,200	5,920	3,260	2,680	3,530	4,690	6,260	3,470	1,280	420	215
9	291	10,100	4,830	3,080	2,580	3,340	4,400	5,770	3,430	1,220	400	212
10	270	11,600	4,230	2,920	2,500	3,190	4,050	4,810	3,870	1,160	380	215
11	248	18,600	4,240	2,820	2,410	3,220	3,840	4,520	4,270	1,100	360	222
12	236	13,500	4,090	2,980	2,370	3,560	3,680	4,430	4,330	1,020	350	219
13	226	9,110	5,300	3,640	2,250	3,640	3,550	3,960	4,060	1,020	340	215
14	220	7,090	5,220	6,380	2,180	4,140	3,500	3,670	3,880	1,010	330	212
15	214	6,430	4,640	23,800	2,160	5,340	3,590	3,490	3,560	1,000	320	208
16	209	7,750	4,670	54,100	2,410	5,470	3,670	3,150	3,180	959	320	208
17	205	6,650	9,460	29,500	2,180	5,500	3,790	2,870	3,220	931	310	205
18	200	5,220	8,180	20,900	2,990	5,440	4,140	2,630	3,270	931	310	201
19	193	4,150	6,240	17,900	6,330	4,980	3,810	2,460	3,270	1,120	300	198
20	225	3,910	9,130	13,700	4,840	4,700	3,550	2,340	2,660	1,020	290	198
21	722	3,680	13,300	11,200	4,320	4,520	3,560	2,350	2,570	868	290	194
22	3,240	3,310	9,950	9,020	3,910	4,400	3,870	2,580	2,520	819	280	194
23	4,280	3,030	7,460	7,440	3,610	4,240	3,970	2,830	2,450	770	280	191
24	2,420	3,000	6,400	6,330	3,400	4,140	3,640	3,060	2,260	728	280	191
25	1,910	2,920	6,740	5,440	3,330	4,380	3,300	3,750	2,240	692	270	187
26	1,310	2,820	6,190	4,840	3,500	4,480	3,070	4,720	1,940	656	270	184
27	1,070	2,880	6,310	4,420	3,490	4,480	2,900	5,210	1,830	620	260	184
28	1,200	3,460	7,130	4,060	4,650	4,770	2,900	4,780	1,790	584	260	184
29	1,220	6,360	11,100	3,670	-----	9,120	3,180	4,390	1,900	554	255	180
30	958	12,800	9,340	3,510	-----	19,100	3,850	3,910	2,050	525	255	177
31	910	-----	7,180	3,560	-----	12,300	-----	3,780	-----	508	250	-----
TOTAL	23,813	178,819	210,980	280,110	91,510	165,010	147,740	124,150	99,130	31,755	11,034	6,232
MEAN	768	5,961	6,806	9,036	3,268	5,323	4,925	4,005	3,304	1,024	356	208
MAX	4,280	18,600	13,300	54,100	6,330	19,100	15,200	6,260	4,690	2,010	673	248
MIN	194	726	3,940	2,820	2,160	3,190	2,900	2,340	1,790	508	250	177
AC-FT	47,230	354,700	418,500	555,600	181,500	327,300	293,000	246,300	196,600	62,990	21,890	12,360

CAL YR 1973 TOTAL 796,252 MEAN 2,182 MAX 18,600 MIN 133 AC-FT 1,579,000

WTR YR 1974 TOTAL 1,370,283 MEAN 3,754 MAX 54,100 MIN 177 AC-FT 2,718,000

PEAK DISCHARGE (BASE, 10,000 FT ³ /S)					
DATE	TIME	G.H.	DISCHARGE	DATE	TIME
11-8	0845	12.77	15,000	12-29	1130
11-11	1000	14.64	20,200	1-16	1330
11-30	2300	12.59	14,500	3-30	0530
12-17	1300	11.40	11,500	4-1	1630
12-21	0845	12.52	14,300		

NOTE.--No gage-height record June 19 to Aug. 1.

12.21

26.73

15.56

14.06

18,500

KLAMATH RIVER BASIN

11523000 KLAMATH RIVER AT ORLEANS, CALIF.

LOCATION.--Lat 41°18'13", long 123°32'00", in SW¼NE¼ sec.31, T.11 N., R.6 E., Humboldt County, Six Rivers National Forest on right bank at Orleans, 25 ft (7.6 m) upstream from highway bridge, and 0.2 mi (0.3 km) downstream from Cheenitch Creek.

DRAINAGE AREA.--8,475 mi² (21,950 km²), not including Lost River or Lower Klamath Lake basins.

PERIOD OF RECORD.--October 1927 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1965, published as "at Somesbar."

GAGE.--Water-stage recorder. Datum of gage is 355.98 ft (108.503 m) above mean sea level. Prior to Oct. 1, 1965, at site 6.7 mi (10.8 km) upstream at datum 90.68 ft (27.639 m) higher.

AVERAGE DISCHARGE.--47 years, 8,268 ft³/s (234.1 m³/s), 5,990,000 acre-ft/yr (7.39 km³/yr).

EXTREMES.--Current year: Maximum discharge, 279,000 ft³/s (7,900 m³/s) Jan. 16 (gage height, 37.24 ft or 11.351 m, from crest-stage gage); minimum daily, 1,620 ft³/s (45.9 m³/s) Oct. 1.
Period of record: Maximum discharge, 307,000 ft³/s (8,690 m³/s) Dec. 22, 1964 (gage height, 76.5 ft or 23.32 m, from floodmarks, site and datum then in use), from rating curve extended above 80,000 ft³/s (2,270 m³/s) by slope-conveyance study; minimum daily, 320 ft³/s (9.06 m³/s) Aug. 25, Sept. 1, 1951.

REMARKS.--Records fair. Flow considerably regulated by reservoirs and powerplants above station. Large diversions above station for irrigation. Records of water temperatures and sediment discharge for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1565: 1935(M), 1949.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,620	3,000	43,400	24,600	24,900	28,100	72,900	18,100	13,300	5,470	2,500	2,020
2	1,850	2,800	30,000	22,100	23,600	28,200	72,700	17,900	14,200	5,160	2,620	2,110
3	2,000	2,600	23,100	20,300	21,500	24,100	50,100	17,500	14,500	4,810	2,600	2,190
4	2,000	2,800	20,200	18,200	20,000	21,400	40,500	17,000	14,300	4,580	2,530	2,190
5	2,070	11,500	17,800	17,000	18,200	20,200	35,100	17,600	14,400	4,410	2,490	2,200
6	2,130	28,100	16,800	15,800	17,600	19,800	33,100	19,600	14,300	4,290	2,490	2,190
7	2,320	23,300	24,100	14,400	16,800	19,300	30,700	21,400	13,300	4,140	2,490	2,180
8	2,330	37,700	26,000	13,500	15,900	18,400	29,700	22,500	11,600	4,140	2,450	2,170
9	2,330	33,000	22,000	12,600	14,900	17,700	27,900	21,900	10,800	4,450	2,410	2,180
10	2,340	45,000	19,300	11,900	14,300	17,500	26,500	19,700	11,000	4,040	2,360	2,190
11	2,290	53,900	19,000	11,300	14,000	17,800	25,500	18,300	11,800	3,860	2,330	2,220
12	2,250	41,000	19,000	12,100	13,500	19,800	24,400	17,300	12,100	3,730	2,300	2,230
13	2,220	34,700	23,800	17,500	12,900	20,700	23,600	16,000	11,900	3,630	2,280	2,230
14	2,220	27,400	24,500	50,000	12,400	22,400	22,200	14,900	11,600	3,560	2,250	2,240
15	2,220	25,900	23,300	115,000	12,100	27,200	22,000	14,200	11,000	3,490	2,240	2,230
16	2,190	29,400	21,600	240,000	14,000	27,500	22,200	13,300	10,100	3,390	2,220	2,220
17	2,160	25,900	35,400	165,000	13,500	27,800	22,100	12,400	9,820	3,320	2,190	2,230
18	2,140	21,300	35,200	125,000	15,700	27,900	21,500	11,600	9,820	3,260	2,170	2,210
19	2,130	17,300	27,600	93,500	25,900	26,600	20,100	11,500	9,450	3,330	2,170	2,180
20	2,240	15,700	33,300	66,000	22,100	25,800	19,100	11,100	8,580	3,300	2,160	2,180
21	3,010	14,900	55,500	50,000	20,000	24,900	18,100	11,000	7,910	3,250	2,160	2,190
22	8,100	14,800	41,200	35,500	19,600	24,400	18,100	11,900	7,520	3,090	2,130	2,180
23	12,500	13,900	31,500	33,300	18,400	23,300	17,900	12,400	7,180	2,970	2,100	2,180
24	9,930	14,000	26,600	30,800	17,500	22,900	18,100	12,400	6,920	2,880	2,110	2,200
25	7,150	13,700	26,900	28,500	17,200	23,400	16,600	13,100	6,570	2,820	2,100	2,200
26	5,290	13,700	24,700	27,000	17,500	24,100	15,300	15,400	6,070	2,760	2,070	2,170
27	4,000	13,700	24,600	26,000	17,200	24,100	14,500	17,600	5,670	2,730	2,050	2,160
28	3,900	16,000	27,000	25,200	21,700	26,700	14,400	17,700	5,430	2,750	2,050	2,150
29	3,700	25,100	36,000	24,000	-----	40,200	14,700	16,700	5,410	2,850	2,030	2,170
30	3,200	39,400	34,600	22,600	-----	100,000	16,200	14,600	5,510	2,640	2,030	2,210
31	3,100	-----	28,200	22,800	-----	64,900	-----	13,200	-----	2,580	2,030	-----
TOTAL	107,100	662,300	861,200	1,391,5M	492,900	857,100	805,800	489,800	302,060	111,680	70,110	65,600
MFA#	3,455	22,080	27,780	44,890	17,600	27,650	26,860	15,800	10,070	3,603	2,262	2,187
MAX	12,500	53,900	55,500	240,000	25,900	100,000	72,900	22,500	14,500	5,470	2,620	2,240
MIN	1,620	2,600	16,800	11,300	12,100	17,500	14,400	11,000	5,410	2,580	2,030	2,020
AC-FT	212,400	1,314M	1,708M	2,760M	977,700	1,700M	1,598M	971,500	599,100	221,500	139,100	130,100
CAL YR 1973	TOTAL 3,256,930 MEAN 8,923 MAX 55,500 MIN 1,280 AC-FT 6,460,000											
WTR YR 1974	TOTAL 6,217,150 MEAN 17,030 MAX 240,000 MIN 1,620 AC-FT 12,330,000											

PEAK DISCHARGE (BASE, 40,000 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-8	1130	16.68	49,000	12-21	1300	18.32	60,200
11-11	0030	18.59	62,100	12-29	1700	15.46	40,900
11-30	2215	16.87	50,200	1-16	1700	37.24	279,000
12-17	1230	15.65	42,800	3-30	0645	23.79	117,000

NOTE.--No gage-height record Jan. 14-21.

11523200 TRINITY RIVER ABOVE COFFEE CREEK, NEAR TRINITY CENTER, CALIF.

LOCATION.--Lat 41°06'29", long 122°42'23", in NE¼SE¼ sec.31, T.38 N., R.7 W., Trinity County, Shasta National Forest, on right bank 250 ft (76 m) downstream from Chinquapin Gulch, 1.8 mi (2.9 km) upstream from Coffee Creek, and 8.5 mi (13.7 km) north of Trinity Center.

DRAINAGE AREA.--149 mi² (386 km²).

PERIOD OF RECORD.--September 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,533.36 ft (772.168 m) above mean sea level.

AVERAGE DISCHARGE.--17 years, 444 ft³/s (12.58 m³/s), 321,700 acre-ft/yr (397 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 26,500 ft³/s (750 m³/s) Jan. 16 (gage height, 12.96 ft or 3.950 m in gage well, 13.6 ft or 4.15 m, from floodmarks); minimum daily, 39 ft³/s (1.11 m³/s) Oct. 3-5, 18.
 Period of record: Maximum discharge, 26,500 ft³/s (750 m³/s) Jan. 16, 1974 (gage height, 12.96 ft or 3.950 m in gage well, 13.6 ft or 4.15 m, from floodmarks), from rating curve extended above 4,500 ft³/s (127 m³/s) on basis of slope-area measurements at gage heights 9.91 ft (3.021 m) and 12.96 ft (3.950 m); minimum daily, 27 ft³/s (0.77 m³/s) Nov. 3, 1966.
 Flood of Dec. 22, 1955, reached a stage of 10.5 ft (3.20 m), from floodmarks (discharge, 11,400 ft³/s or 323 m³/s).

REMARKS.--Records good. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	127	2,210	563	554	597	1,400	1,850	1,740	383	105	57
2	40	117	1,190	493	499	561	1,170	1,830	1,950	341	105	55
3	39	111	882	467	470	447	1,010	1,760	2,000	306	100	53
4	39	114	750	431	455	381	919	1,820	1,800	292	95	53
5	39	153	622	404	430	396	997	2,140	1,820	291	121	53
6	41	312	570	375	410	411	944	2,540	1,750	289	132	52
7	65	517	635	353	395	431	868	2,890	1,460	286	105	51
8	53	1,460	637	332	390	382	853	3,000	1,200	367	96	50
9	49	4,500	590	316	385	353	833	3,000	1,200	328	91	50
10	46	6,070	565	301	385	349	759	2,350	1,360	269	84	49
11	44	8,790	598	293	380	548	749	2,010	1,460	249	81	48
12	42	5,320	614	305	380	756	790	1,920	1,390	228	80	46
13	42	2,330	656	443	362	608	800	1,660	1,270	210	79	46
14	41	1,470	595	1,630	348	554	838	1,560	1,210	193	79	46
15	41	1,790	547	8,750	326	638	910	1,460	1,100	192	76	45
16	40	2,630	530	18,900	360	863	1,020	1,230	987	184	76	45
17	40	1,610	956	6,140	340	1,050	1,160	1,040	955	176	74	45
18	39	1,120	818	4,400	360	1,100	1,240	941	944	170	72	43
19	40	820	678	3,250	435	1,010	1,000	852	1,070	165	72	43
20	57	652	680	2,040	339	986	938	821	893	159	72	43
21	254	593	721	1,530	338	945	1,050	875	818	152	69	43
22	1,020	529	621	1,140	318	944	1,320	1,060	776	144	67	42
23	836	471	549	944	301	926	1,430	1,290	743	134	67	43
24	343	432	518	850	303	936	1,110	1,580	712	128	65	43
25	262	404	547	778	318	1,160	930	2,080	625	126	64	42
26	193	378	529	681	357	1,300	849	2,660	565	123	62	42
27	175	358	553	611	357	1,800	796	2,680	540	144	62	42
28	184	408	596	578	609	1,560	825	2,330	490	118	61	42
29	166	1,580	946	542	-----	2,680	1,020	1,950	443	113	60	42
30	143	4,680	789	502	-----	6,440	1,450	1,650	398	110	60	42
31	138	-----	657	530	-----	2,310	-----	1,590	-----	105	59	-----
TOTAL	4,591	49,916	22,349	58,872	10,904	73,522	29,978	56,419	33,669	6,475	2,491	1,396
MEAN	148	1,664	721	1,899	389	1,081	999	1,820	1,122	209	80.4	46.5
MAX	1,020	8,790	2,210	18,900	609	6,440	1,450	3,000	2,000	383	132	57
MIN	39	111	518	293	301	349	749	821	398	105	59	42
AC-FT	9,110	99,010	44,330	116,800	21,630	66,490	59,460	111,900	66,780	12,840	4,940	2,770
CAL YR 1973	TOTAL 198,189 MEAN 543 MAX 8,790 MIN 35 AC-FT 393,100											
WTR YR 1974	TOTAL 310,582 MEAN 851 MAX 18,900 MIN 39 AC-FT 616,000											

PEAK DISCHARGE (BASE, 1,900 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
10-22	2300	5.22	2,100	3-27	1930	4.75	2,020
11-11	1430	9.74	10,500	3-30	0300	9.24	10,800
11-16	0330	6.02	3,050	5-8	2100	6.05	3,580
11-30	1100	7.58	5,420	5-26	2030	5.96	3,440
1-16	0930	12.96	26,500				

KLAMATH RIVER BASIN

11525400 CLAIR ENGLE LAKE NEAR LEWISTON, CALIF.

LOCATION.--Lat 40°48'05", long 122°45'44", in NW¼SW¼ sec.15, T.34 N., R.8 W., Trinity County, Trinity National Forest, on side of intake structure of Trinity Dam on Trinity River, 9 mi (14 km) north of Lewiston.

DRAINAGE AREA.--692 mi² (1,792 km²).

PERIOD OF RECORD.--November 1960 to current year. Prior to October 1963 published as Trinity Lake near Lewiston.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Bureau of Reclamation). Prior to Jan. 4, 1962, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum contents, 2,588,000 acre-ft (3,191 hm³) Jan. 19 (elevation, 2,378.32 ft or 724.912 m); minimum, 1,881,000 acre-ft (2,319 hm³) Oct. 20 (elevation, 2,332.57 ft or 710.967 m).
Period of record: Maximum contents, 2,588,000 acre-ft (3,191 hm³) Jan. 19, 1974 (elevation, 2,378.32 ft or 724.912 m); minimum since lake first filled, 1,305,600 acre-ft (1,610 hm³) Dec. 9, 1968 (elevation, 2,286.22 ft or 696.840 m).

REMARKS.--The lake is formed by an earthfill dam completed in November 1960. Storage began Nov. 23, 1960. Usable capacity, 2,437,700 acre-ft (3,006 hm³) between elevations 1,995.5 ft (608.23 m), elevation of invert of river outlets and 2,370.0 ft (722.38 m), gross pool elevation, above mean sea level. Dead storage, 10,000 acre-ft (12.3 hm³). Records, including extremes, represent total contents at 2400 hours.

COOPERATION.--Records furnished by Bureau of Reclamation, rounded to Geological Survey standards.

CAPACITY TABLE (ELEVATION, IN FEET, AND CONTENTS, IN ACRE-FEET)

1,960	670	2,100	162,231
1,970	1,894	2,140	292,850
1,980	4,131	2,190	529,611
2,000	12,373	2,250	955,140
2,020	26,436	2,310	1,583,590
2,040	47,023	2,380	2,616,990
2,070	92,906		

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.901	1.904	2.277	2.337	2.476	2.388	2.474	2.366	2.437	2.444	2.304	2.140
2	1.899	1.904	2.296	2.335	2.471	2.388	2.478	2.371	2.440	2.440	2.299	2.134
3	1.895	1.903	2.290	2.334	2.467	2.387	2.480	2.375	2.444	2.437	2.295	2.128
4	1.892	1.903	2.292	2.331	2.463	2.385	2.480	2.378	2.447	2.433	2.290	2.123
5	1.891	1.906	2.295	2.329	2.459	2.382	2.481	2.383	2.452	2.428	2.284	2.117
6	1.891	1.912	2.296	2.326	2.455	2.380	2.480	2.391	2.455	2.424	2.279	2.114
7	1.891	1.919	2.299	2.324	2.452	2.377	2.479	2.400	2.456	2.419	2.275	2.110
8	1.890	1.924	2.302	2.321	2.448	2.374	2.474	2.411	2.445	2.417	2.265	2.105
9	1.889	1.968	2.303	2.318	2.445	2.371	2.467	2.419	2.456	2.414	2.264	2.101
10	1.889	2.011	2.305	2.315	2.441	2.367	2.460	2.424	2.459	2.410	2.259	2.097
11	1.888	2.074	2.306	2.312	2.439	2.367	2.453	2.428	2.461	2.405	2.254	2.092
12	1.889	2.110	2.309	2.309	2.436	2.368	2.448	2.431	2.463	2.401	2.248	2.088
13	1.887	2.127	2.308	2.309	2.432	2.367	2.441	2.433	2.464	2.397	2.242	2.084
14	1.886	2.138	2.307	2.323	2.428	2.366	2.438	2.433	2.464	2.393	2.237	2.080
15	1.885	2.152	2.306	2.397	2.424	2.365	2.434	2.434	2.464	2.388	2.231	2.075
16	1.885	2.173	2.305	2.535	2.421	2.365	2.430	2.433	2.463	2.382	2.226	2.071
17	1.884	2.187	2.308	2.565	2.418	2.365	2.425	2.431	2.461	2.378	2.221	2.067
18	1.883	2.197	2.309	2.584	2.416	2.366	2.421	2.426	2.460	2.373	2.214	2.064
19	1.882	2.205	2.308	2.588	2.412	2.366	2.416	2.421	2.461	2.369	2.209	2.058
20	1.881	2.210	2.312	2.583	2.407	2.365	2.411	2.416	2.460	2.364	2.204	2.053
21	1.883	2.213	2.317	2.572	2.402	2.365	2.406	2.412	2.459	2.359	2.195	2.047
22	1.892	2.213	2.320	2.556	2.399	2.365	2.403	2.409	2.457	2.353	2.194	2.041
23	1.895	2.214	2.321	2.543	2.394	2.364	2.401	2.407	2.456	2.348	2.189	2.035
24	1.901	2.214	2.321	2.531	2.390	2.363	2.397	2.407	2.453	2.343	2.184	2.029
25	1.902	2.213	2.321	2.520	2.386	2.365	2.391	2.411	2.450	2.338	2.179	2.024
26	1.903	2.212	2.321	2.511	2.383	2.366	2.385	2.417	2.446	2.333	2.173	2.018
27	1.903	2.213	2.321	2.503	2.379	2.373	2.378	2.424	2.443	2.328	2.167	2.012
28	1.904	2.215	2.323	2.496	2.384	2.379	2.372	2.429	2.440	2.323	2.162	2.006
29	1.904	2.229	2.321	2.489	-----	2.406	2.366	2.432	2.444	2.318	2.156	2.000
30	1.904	2.241	2.335	2.483	-----	2.449	2.364	2.432	2.448	2.313	2.151	1.996
31	1.904	-----	2.337	2.480	-----	2.463	-----	2.434	-----	2.309	2.145	-----
MAX	1.904	2.261	2.337	2.588	2.476	2.463	2.481	2.434	2.464	2.444	2.304	2.140
MIN	1.881	1.903	2.277	2.309	2.379	2.363	2.364	2.366	2.437	2.309	2.145	1.996
(a)	2,334.21	2,358.32	2,363.17	2,371.95	2,366.11	2,370.93	2,364.86	2,369.17	2,370.02	2,361.40	2,350.74	2,340.66
(b)	0	+357	+76	+143	-96	+79	-99	+70	+14	-139	-164	-149
(c)	1,630	280	800	--	1,020	1,960	3,790	7,580	8,920	9,060	8,470	7,000

CAL YR 1973 b +430
WTR YR 1974 b +92

a Elevation, in feet, at end of month.
b Change in contents, in thousands of acre-feet.
c Evaporation, in acre-feet.

11525430 JUDGE FRANCIS CARR POWERPLANT NEAR FRENCH GULCH, CALIF.

LOCATION.--Lat 40°38'49", long 122°37'34", unsurveyed, Shasta County, at powerplant 1.6 mi (2.6 km) downstream from Mill Creek, and 3.8 mi (6.1 km) south of French Gulch.

PERIOD OF RECORD.--April 1963 to current year.

GAGE.--Recorded powerplant output.

AVERAGE DISCHARGE.--11 years, 1,772 ft³/s (50.2 m³/s), 1,284,000 acre-ft/yr (1,583 hm³/yr).

EXTREMES.--Period of record: Maximum daily discharge, 3,910 ft³/s (111 m³/s) Feb. 11, 1970; no flow for several days in many years.

REMARKS.--Water is diverted from Trinity River at NW¼SE¼ sec.8, T.33 N., R.8 W., through a tunnel to powerplant and then into Whiskeytown Lake (see sta 11371700). See schematic diagram of Pit and McCloud River basins.

COOPERATION.--Records furnished by Bureau of Reclamation, rounded to Geological Survey standards.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,390	288	1,790	3,100	3,140	3,280	13	3,560	3,590	3,390	2,630	2,590
2	1,390	286	1,780	3,100	3,140	3,180	0	3,550	3,580	3,110	2,610	2,580
3	1,390	376	1,750	2,960	3,140	3,090	0	3,570	3,580	3,110	2,620	2,580
4	1,330	379	1,790	3,380	3,140	2,840	0	3,590	3,580	3,110	2,620	2,580
5	323	278	1,670	3,110	3,140	3,320	706	3,580	3,570	3,110	2,590	2,590
6	321	314	1,620	3,110	3,200	3,320	1,210	3,590	3,580	3,110	2,620	1,980
7	322	316	1,690	2,960	3,220	3,320	1,210	3,590	3,590	3,110	2,620	1,870
8	329	377	1,780	3,000	3,130	3,360	2,670	3,420	3,580	3,080	2,630	1,830
9	325	386	1,770	2,820	3,130	3,410	3,500	3,550	3,580	2,910	2,740	1,790
10	322	331	1,650	2,820	3,130	3,480	3,500	3,520	3,560	3,170	2,620	1,860
11	326	283	1,620	3,300	3,270	3,480	3,530	3,560	3,580	3,180	2,620	1,880
12	328	5.0	1,940	3,200	3,260	3,480	3,550	3,560	3,570	3,180	2,630	1,950
13	325	0	3,030	3,280	3,230	3,390	3,510	3,500	3,550	3,180	2,620	1,830
14	324	0	3,100	3,280	3,230	3,390	2,410	2,880	3,480	3,180	2,620	1,760
15	276	178	3,100	3,300	3,240	3,410	2,660	3,050	3,430	3,180	2,620	1,820
16	273	4.0	3,090	830	3,260	3,390	3,490	3,170	3,300	3,030	2,620	1,770
17	303	0	3,090	25	3,260	3,390	3,330	3,320	3,450	3,180	2,620	1,890
18	388	0	3,090	0	3,330	3,490	3,330	3,630	3,390	3,190	2,620	1,840
19	286	276	3,090	0	3,330	3,390	3,430	3,610	3,550	3,200	2,740	2,700
20	291	525	3,090	0	3,330	3,390	3,560	3,600	3,590	3,190	2,660	2,740
21	265	1,340	3,100	3.0	3,330	3,390	3,560	3,620	3,580	3,180	2,670	2,730
22	271	1,770	3,090	1,580	3,330	3,390	3,560	3,620	3,540	3,180	2,670	2,610
23	338	1,770	3,100	1,660	3,110	3,390	3,540	3,600	3,510	3,180	2,670	2,450
24	421	1,770	3,100	2,300	3,240	3,390	3,540	3,610	3,300	3,170	2,350	2,620
25	326	1,770	3,100	2,610	3,240	3,390	3,430	3,610	3,250	3,170	2,530	2,710
26	294	1,740	3,010	2,600	3,240	3,390	3,520	3,590	3,180	2,720	2,770	2,670
27	274	1,510	3,100	2,600	3,270	3,390	3,550	3,580	3,190	2,630	2,660	2,610
28	266	1,770	3,110	2,900	3,280	3,400	3,560	3,580	3,320	2,620	2,660	2,710
29	269	1,740	3,110	3,220	-----	2,640	3,560	3,580	138	2,620	2,670	2,710
30	264	1,780	3,100	3,290	-----	5.0	3,540	3,580	33	2,610	2,680	1,700
31	280	-----	3,100	3,320	-----	0	-----	3,590	-----	2,620	2,640	-----
TOTAL	13,830	21,562.0	79,550	73,658.0	90,290	96,575.0	80,969	108,960	97,721	94,600	81,640	67,950
MEAN	446	719	2,566	2,376	3,225	3,115	2,699	3,515	3,257	3,052	2,634	2,265
MAX	1,390	1,780	3,110	3,380	3,330	3,490	3,560	3,630	3,590	3,390	2,770	2,740
MIN	264	0	1,620	0	3,110	0	0	2,880	33	2,610	2,350	1,700
AC-FT	27,430	42,770	157,800	146,100	179,100	191,600	160,600	216,100	193,800	187,600	161,900	134,800
CAL YR 1973	TOTAL	646,798.0	MEAN	1,772	MAX	3,310	MIN	0	AC-FT	1,283,000		
WTR YR 1974	TOTAL	907,305.0	MEAN	2,486	MAX	3,630	MIN	0	AC-FT	1,800,000		

11525500 TRINITY RIVER AT LEWISTON, CALIF.

LOCATION.--Lat 40°43'10", long 122°48'09", in SW¼NW¼ sec.17, T.33 N., R.8 W., Trinity County, on right bank 400 ft (122 m) upstream from Deadwood Creek, and 0.8 mi (1.3 km) northeast of Lewiston.

DRAINAGE AREA.--719 mi² (1,862 km²).

PERIOD OF RECORD.--August 1911 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,810 ft (552 m), from topographic map. Prior to Oct. 16, 1930, nonrecording gage and Oct. 16, 1930, to Sept. 30, 1958, water-stage recorder, at site 1.1 mi (1.8 km) downstream at different datum. Oct. 1, 1958, to July 6, 1964, water-stage recorder at site 0.8 mi (1.3 km) downstream at different datum.

AVERAGE DISCHARGE (adjusted for change in contents, evaporation, and diversion).--63 years, 1,727 ft³/s (48.91 m³/s), 1,251,000 acre-ft/yr (1.54 km³/yr).

EXTREMES.--Current year: Maximum discharge, 14,400 ft³/s (408 m³/s) Jan. 18 (gage height, 10.41 ft or 3.173 m); minimum daily, 144 ft³/s (4.08 m³/s) Aug. 16.

Period of record: Maximum discharge, 71,600 ft³/s (2,030 m³/s) Dec. 22, 1955 (gage height, 27.3 ft or 8.32 m, from floodmarks, site and datum then in use); minimum, 23 ft³/s (0.65 m³/s) July 30, 1924. Maximum discharge since construction of Lewiston Dam in 1960, 14,400 ft³/s (408 m³/s) Jan. 18, 1974 (gage height, 10.41 ft or 3.173 m); minimum daily, 125 ft³/s (3.54 m³/s) July 8, 1969.

Flood of December 1861 reached a stage of 21.6 ft (6.58 m), from floodmarks, at site 1.1 mi (1.8 km) downstream at different datum (discharge, not determined).

REMARKS.--Records good. Flow regulated by Clair Engle Lake (see sta 11525400) beginning in November 1960. Diversion to Judge Francis Carr powerplant (see sta 11525430) began in April 1963. Small diversions above head of Trinity Lake for irrigation, power, and placer mining. Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 331: 1911-12. WSP 1181: 1949. WSP 1929: Drainage area.

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	202	248	203	161	1,970	248	5,650	646	1,230	162	267	188
2	203	247	203	160	1,840	248	5,600	364	1,180	163	238	212
3	202	247	180	162	1,440	245	5,410	440	1,140	161	190	212
4	200	247	164	162	980	245	5,290	540	1,080	160	162	209
5	200	251	164	160	556	245	4,780	610	1,070	161	161	209
6	201	252	164	160	556	245	4,250	682	992	160	160	209
7	200	252	164	160	550	248	4,020	800	960	160	160	209
8	200	249	164	160	436	248	4,020	872	912	161	160	206
9	200	250	164	160	320	248	3,980	976	840	158	160	209
10	200	249	162	160	283	248	3,730	1,050	793	160	159	211
11	200	253	164	160	283	245	3,190	1,120	764	159	158	212
12	200	251	164	160	238	245	2,820	1,240	694	158	164	212
13	199	252	164	162	203	245	2,880	1,310	664	157	163	209
14	199	252	166	168	200	245	2,910	1,470	621	157	160	211
15	231	235	164	192	197	203	2,890	1,560	556	157	147	212
16	253	203	164	3,740	197	152	2,910	1,620	513	158	144	212
17	255	203	164	9,520	197	154	2,920	1,710	464	158	161	213
18	253	200	164	12,300	200	154	2,950	1,790	434	159	161	214
19	248	198	164	13,800	638	154	2,970	1,780	395	158	161	212
20	247	200	166	13,500	868	154	2,970	1,750	342	158	160	211
21	250	200	168	12,900	638	154	2,940	1,730	310	158	160	209
22	252	200	164	12,000	509	157	2,920	1,670	246	159	158	209
23	254	200	162	9,460	356	160	2,920	1,600	259	159	158	212
24	253	200	162	7,720	294	162	2,940	1,600	204	160	158	212
25	247	200	160	6,490	254	162	2,950	1,530	196	160	158	212
26	247	203	162	5,680	238	162	2,970	1,500	214	168	158	212
27	247	203	166	4,840	245	164	2,970	1,460	174	418	160	212
28	247	200	168	3,930	248	164	2,970	1,400	159	403	160	212
29	247	203	171	2,790	-----	922	2,970	1,370	159	332	159	212
30	244	208	166	2,070	-----	5,180	2,670	1,330	162	278	160	212
31	246	-----	163	1,980	-----	5,700	-----	1,270	-----	241	160	-----
TOTAL	7,033	6,756	5,188	125,167	14,934	17,506	105,360	38,790	17,727	5,821	5,145	6,306
MEAN	227	225	167	4,038	533	565	3,512	1,251	591	188	166	210
MAX	255	253	203	13,800	1,970	5,700	5,650	1,790	1,230	418	267	214
MIN	199	198	160	160	197	152	2,670	364	159	157	144	188
AC-FT	13,950	13,400	10,290	248,300	29,620	34,720	209,000	76,940	35,160	11,550	10,210	12,510
MEAN a	700	6,948	3,983	8,737	2,047	4,995	4,610	6,027	4,234	1,126	270	87.9
AC-FT a	43,070	413,450	244,880	537,190	113,670	307,130	274,340	370,580	251,940	69,240	16,580	5,230
CAL YR 1973	TOTAL 67,018	MEAN 184	MAX 602	MIN 144	AC-FT 132,900	MEAN a 2,617	AC-FT a 1,895,000					
WTR YR 1974	TOTAL 355,733	MEAN 975	MAX 13,800	MIN 144	AC-FT 705,600	MEAN a 3,657	AC-FT a 2,647,000					

a Adjusted for change in contents, evaporation, and diversion from Clair Engle Lake. Data furnished by Bureau of Reclamation.

11526500 NORTH FORK TRINITY RIVER AT HELENA, CALIF.

LOCATION.--Lat 40°46'55", long 123°07'38", in SW¼SW¼ sec.21, T.34 N., R.11 W., Trinity County, on right bank 500 ft (152 m) downstream from East Fork of North Fork Trinity River, 0.6 mi (1.0 km) north of Helena, 1.0 mi (1.6 km) upstream from mouth, and 6 mi (10 km) northwest of Junction City.

DRAINAGE AREA.--151 mi² (391 km²).

PERIOD OF RECORD.--August 1911 to September 1913, January 1957 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,380 ft (421 m), from topographic map. August 1911 to September 1913, at site 0.8 mi (1.3 km) downstream at different datum.

AVERAGE DISCHARGE.--19 years, 460 ft³/s (13.03 m³/s), 333,300 acre-ft/yr (411 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 20,000 ft³/s (566 m³/s) Jan. 16 (gage height, 22.59 ft or 6.885 m); minimum daily, 27 ft³/s (0.76 m³/s) Oct. 5, Sept. 26-30.

Period of record: Maximum discharge, 35,800 ft³/s (1,010 m³/s) Dec. 22, 1964 (gage height, 27.93 ft or 8.513 m, from floodmarks), from rating curve extended above 9,000 ft³/s (255 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 7.5 ft³/s (0.21 m³/s) Sept. 26, 1964.

REMARKS.--No known regulation or diversion above station.

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

REVISIONS (WATER YEARS).--WSP 1565: 1912-13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	216	3,350	1,270	672	2,170	3,600	942	607	246	100	40
2	31	175	1,870	1,060	642	1,590	3,120	931	637	240	99	39
3	28	146	1,390	923	606	979	2,810	891	643	234	93	38
4	29	137	1,160	808	580	730	2,730	931	618	232	92	37
5	27	321	1,020	727	546	638	2,660	999	712	226	99	36
6	37	1,170	960	652	515	635	2,590	1,070	675	220	107	36
7	90	1,630	1,230	594	492	677	2,510	1,150	571	216	87	35
8	60	2,620	1,300	551	479	617	2,430	1,190	449	208	74	35
9	54	3,070	1,140	514	470	564	2,360	1,060	438	205	68	35
10	47	4,030	1,010	483	467	527	2,280	871	488	198	64	35
11	42	6,500	982	464	463	717	2,210	824	549	191	63	35
12	38	3,330	945	474	461	1,050	2,140	774	544	190	62	34
13	36	2,030	1,200	699	454	995	2,070	673	481	177	58	34
14	34	1,620	1,120	2,650	449	1,010	2,000	619	460	177	56	33
15	32	1,720	993	10,100	449	1,210	1,930	592	417	178	53	33
16	31	2,560	952	16,200	450	1,240	1,860	525	350	170	50	33
17	30	1,930	1,760	5,920	445	1,250	1,780	470	328	174	50	32
18	29	1,480	1,520	3,970	463	1,230	1,720	429	325	177	49	31
19	29	1,170	1,240	3,500	722	1,120	1,650	395	366	189	49	31
20	35	1,010	1,790	2,700	627	1,060	1,580	386	312	196	47	31
21	230	897	2,700	2,090	587	1,000	1,520	384	302	182	45	30
22	954	928	1,910	1,660	575	964	1,450	413	297	166	43	29
23	1,090	764	1,470	1,270	547	923	1,380	453	292	141	43	28
24	641	759	1,290	1,090	523	899	1,320	498	284	134	43	28
25	542	726	1,440	972	540	994	1,260	627	278	142	44	28
26	385	677	1,350	865	598	998	1,200	819	273	148	43	27
27	344	658	1,490	784	631	1,090	1,140	853	266	143	41	27
28	363	833	1,830	717	1,490	1,210	1,090	753	262	137	40	27
29	302	2,130	1,200	659	-----	4,280	1,030	681	256	122	40	27
30	246	4,650	2,200	613	-----	6,310	977	574	250	113	41	27
31	241	-----	1,600	639	-----	3,290	-----	560	-----	104	40	-----
TOTAL	6,111	49,787	47,412	65,618	15,943	41,967	58,397	22,337	12,730	5,576	1,883	971
MEAN	197	1,660	1,529	2,117	569	1,354	1,947	721	424	180	60.7	32.4
MAX	1,090	6,500	3,350	16,200	1,490	6,310	3,600	1,190	712	246	107	40
MIN	27	137	945	464	445	527	977	384	250	104	40	27
AC-FT	12,120	98,750	94,040	130,200	31,620	83,240	115,800	44,310	25,250	11,060	3,730	1,930

CAL YR 1973 TOTAL 208,847 MEAN 572 MAX 6,500 MIN 21 AC-FT 414,200
 WTR YR 1974 TOTAL 328,732 MEAN 501 MAX 16,200 MIN 27 AC-FT 652,000

11527000 TRINITY RIVER NEAR BURNT RANCH, CALIF.

LOCATION.--Lat 40°47'20", long 123°26'20", in S½ sec.19, T.5 N., R.7 E., Trinity County, Trinity National Forest, on left bank 500 ft (152 m) upstream from Cedar Flat Creek, 700 ft (213 m) upstream from highway bridge at Cedar Flat, and 2.3 mi (3.7 km) southeast of town of Burnt Ranch.

DRAINAGE AREA.--1,439 mi² (3,727 km²).

PERIOD OF RECORD.--October 1931 to September 1940, October 1956 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 944.05 ft (287.746 m) above mean sea level. Oct. 1, 1931, to Jan. 19, 1940, at site 2 mi (3 km) upstream at different datum.

AVERAGE DISCHARGE.--13 years (1931-40, 1956-60), 2,785 ft³/s (78.87 m³/s), 2,016,000 acre-ft/yr (2.49 km³/yr); 14 years (1960-74), 1,741 ft³/s (49.31 m³/s), 1,261,000 acre-ft/yr (1.55 km³/yr).

EXTREMES.--Current year: Maximum discharge, 68,100 ft³/s (1,930 m³/s) Jan. 16 (gage height, 27.72 ft or 8.449 m); minimum daily, 313 ft³/s (8.86 m³/s) Sept. 24.
Period of record: Maximum discharge, 81,500 ft³/s (2,310 m³/s) Feb. 25, 1958 (gage height, 30.50 ft or 9.296 m, from rating curve extended above 40,000 ft³/s (1,130 m³/s) on basis of slope-area measurement at gage height 43.2 ft (13.17 m); minimum, 82 ft³/s (2.32 m³/s) Aug. 31, 1939.
Flood of Dec. 22, 1955, reached a stage of 43.2 ft (13.17 m), from floodmarks (discharge, 172,000 ft³/s or 4,870 m³/s, on basis of slope-area measurement of maximum flow).

REMARKS.--Records good. Flow regulated by Clair Engle Lake 64 mi (103 km) upstream since November 1960 (see sta 11525400). Small diversions above station for mining and irrigation. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	340	705	8,480	4,990	5,240	7,980	19,200	4,910	2,760	1,180	604	326
2	334	651	6,400	4,160	4,970	6,820	18,400	2,890	2,820	1,020	622	332
3	334	599	4,710	3,660	4,370	5,150	14,600	2,730	2,820	912	580	360
4	331	576	3,800	3,270	3,760	4,140	12,300	2,780	2,720	866	540	364
5	328	843	3,280	2,960	2,990	3,540	11,000	2,910	2,810	871	506	364
6	328	1,850	3,000	2,680	2,680	3,300	10,000	3,300	2,840	860	535	364
7	440	3,420	3,210	2,450	2,580	3,360	9,390	3,680	2,530	815	502	360
8	472	5,680	3,500	2,260	2,490	3,130	8,930	4,160	2,220	912	458	353
9	450	5,100	3,060	2,120	2,270	2,880	8,630	4,000	2,110	1,260	431	353
10	433	7,240	2,760	1,980	2,120	2,720	8,160	3,440	2,160	912	416	353
11	415	8,050	2,720	1,890	2,030	3,200	7,470	3,360	2,290	765	401	353
12	403	6,280	2,640	1,930	2,010	4,770	6,730	3,340	2,260	700	389	350
13	394	5,300	3,520	2,520	1,920	4,410	6,490	3,170	2,100	700	382	346
14	388	4,480	3,450	5,200	1,810	4,060	6,470	3,110	1,980	720	375	343
15	382	4,030	3,100	11,500	1,750	4,370	6,420	3,230	1,880	720	364	329
16	391	5,590	2,890	52,300	1,830	4,290	6,400	3,150	1,700	690	353	329
17	412	5,270	4,140	35,900	1,760	4,190	6,410	3,090	1,610	695	326	329
18	415	4,610	4,090	28,400	1,880	4,110	6,630	3,090	1,550	695	335	329
19	415	3,650	3,470	29,300	2,490	3,800	6,350	3,030	1,700	725	335	329
20	417	3,080	4,000	23,200	3,100	3,530	6,110	2,930	1,600	755	339	326
21	499	2,800	7,530	19,800	2,870	3,310	6,050	2,880	1,400	725	339	320
22	1,930	2,510	7,020	17,000	2,660	3,170	6,190	2,900	1,360	685	335	318
23	2,640	2,290	5,410	14,700	2,420	3,050	6,230	2,920	1,280	627	332	315
24	1,710	2,240	4,690	12,700	2,230	2,950	6,060	2,930	1,280	599	332	313
25	1,400	2,130	4,690	10,700	2,200	3,040	5,810	3,140	1,200	656	332	315
26	1,080	2,040	4,440	9,700	2,280	3,060	5,650	3,540	1,070	636	332	318
27	924	1,980	4,850	8,500	2,410	3,130	5,500	3,760	1,010	641	332	320
28	929	2,080	5,760	7,600	4,260	3,800	5,430	3,370	985	860	329	317
29	889	4,050	7,950	6,600	-----	8,570	5,540	3,160	1,040	815	326	315
30	760	7,970	7,530	5,530	-----	27,700	5,820	2,840	1,140	725	326	315
31	745	-----	6,060	5,150	-----	18,500	-----	2,730	-----	705	326	-----
TOTAL	21,328	107,094	142,150	340,650	75,380	164,030	244,370	100,470	56,225	24,447	12,434	10,058
MEAN	688	3,570	4,585	10,990	2,692	5,291	8,146	3,241	1,874	789	401	335
MAX	2,640	8,050	8,480	52,300	5,240	27,700	19,200	4,910	2,840	1,260	622	364
MIN	328	576	2,640	1,890	1,750	2,720	5,430	2,730	985	599	326	313
AC-FT	42,300	212,400	282,000	675,700	149,500	325,400	484,700	199,300	111,500	48,490	24,660	19,950
CAL YR 1973	TOTAL	684,330	MEAN	1,875	MAX	8,480	MIN	230	AC-FT	1,357,000		
WTR YR 1974	TOTAL	1,298,636	MEAN	3,558	MAX	52,300	MIN	313	AC-FT	2,576,000		

KLAMATH RIVER BASIN

473

11528500 HAYFORK CREEK NEAR HYAMPOM, CALIF.

LOCATION.--Lat 40°37'34", long 123°26'01", in SE¼NW¼ sec.19, T.3 N., R.7 E., Trinity County, Trinity National Forest, on right bank 1.2 mi (1.9 km) upstream from mouth, and 1.3 mi (2.1 km) northeast of Hyampom.

DRAINAGE AREA.--378 mi² (979 km²).

PERIOD OF RECORD.--August 1953 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 1,270.67 ft (387.300 m) above mean sea level.

AVERAGE DISCHARGE.--21 years, 548 ft³/s (15.52 m³/s), 397,000 acre-ft/yr (490 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 29,400 ft³/s (833 m³/s) Jan. 16 (gage height, 19.34 ft or 5.895 m), from rating curve extended as explained below; minimum daily, 30 ft³/s (0.85 m³/s) Sept. 22, 26, 27.
Period of record: Maximum discharge, 29,400 ft³/s (833 m³/s) Jan. 16, 1974 (gage height, 19.34 ft or 5.895 m), from rating curve extended above 11,000 ft³/s (312 m³/s) on basis of slope-area measurement at gage height 18.00 ft (5.486 m); minimum daily, 16 ft³/s (0.45 m³/s) Aug. 26, Sept. 27, Oct. 4, 5, 1964.

REMARKS.--Records good. No regulation; diversions for irrigation of about 700 acres (2.83 km²) above station. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1395: 1954(M).

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	74	4,420	2,110	1,210	4,270	4,700	500	227	120	60	39
2	34	71	2,340	1,710	1,080	3,570	3,750	495	222	117	57	38
3	35	71	1,600	1,480	1,000	2,740	3,100	480	215	116	58	37
4	35	71	1,250	1,270	938	2,240	2,550	470	210	112	58	38
5	35	147	1,090	1,130	872	1,970	2,200	470	212	109	60	38
6	37	461	999	995	820	1,870	2,000	470	211	108	70	37
7	48	590	1,030	887	770	1,870	1,820	470	204	105	68	36
8	52	653	1,130	804	727	1,710	1,700	465	201	130	64	35
9	52	643	960	736	692	1,540	1,600	458	194	159	58	35
10	52	1,980	831	672	663	1,450	1,460	438	194	141	55	36
11	50	3,240	906	630	635	1,970	1,360	422	185	132	54	36
12	48	2,930	886	683	624	2,370	1,260	410	179	120	52	34
13	47	1,900	1,720	1,720	602	2,160	1,180	398	174	120	50	34
14	47	1,550	1,620	4,120	570	1,960	1,100	386	171	113	51	33
15	47	1,390	1,360	11,400	544	1,890	1,020	376	168	106	52	33
16	47	2,140	1,170	24,100	581	1,860	950	365	169	103	50	34
17	47	1,870	1,570	11,400	544	1,820	890	369	184	102	49	33
18	45	1,820	1,630	7,530	663	1,750	850	380	172	98	47	33
19	45	1,230	1,330	6,700	2,030	1,620	790	360	181	95	46	32
20	47	1,000	2,140	4,620	1,450	1,520	730	343	208	92	49	31
21	58	876	5,920	3,300	1,240	1,420	680	334	176	89	50	31
22	130	748	3,750	2,560	1,110	1,350	650	324	161	84	48	30
23	336	644	2,690	2,190	959	1,280	630	305	155	80	46	31
24	296	616	2,350	1,920	885	1,270	610	248	148	79	45	31
25	173	575	2,330	1,720	846	1,280	585	290	144	77	45	31
26	127	547	2,220	1,540	885	1,300	555	278	141	74	43	30
27	106	525	2,500	1,380	905	1,500	530	261	138	77	43	30
28	93	548	2,750	1,260	3,060	2,500	520	255	135	74	41	31
29	83	941	4,490	1,160	-----	6,000	510	251	132	68	40	32
30	78	3,360	3,540	1,070	-----	9,800	505	247	127	67	40	33
31	74	-----	2,670	1,160	-----	4,000	-----	234	-----	64	40	-----
TOTAL	2,438	33,211	65,192	103,957	26,905	73,850	40,785	11,602	5,343	3,137	1,541	1,012
MEAN	78.6	1,107	2,103	3,353	961	2,342	1,360	374	178	101	51.3	33.7
MAX	336	3,360	5,920	24,100	3,060	9,800	4,700	500	227	159	70	39
MIN	34	71	831	630	544	1,270	505	234	127	64	40	40
AC-FT	4,840	65,870	129,300	206,200	53,370	146,500	80,900	23,010	10,600	6,220	3,160	2,010
CAL YR 1973	TOTAL	247,602	MEAN	678	MAX	7,620	MIN	19	AC-FT	491,100		
WTR YR 1974	TOTAL	369,023	MEAN	1,011	MAX	24,100	MIN	30	AC-FT	732,000		

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-11	1645	8.48	4,030	1-16	1215	19.34	29,400
12-1	0200	9.79	5,950	2-28	1900	9.26	5,230
12-21	0900	10.39	6,920	3-30	unknown	14.42	15,200
12-29	1200	9.28	5,170				

NOTE.--No gage-height record Mar. 21 to May 8.

KLAMATH RIVER BASIN

11528700 SOUTH FORK TRINITY RIVER BELOW HYAMPOM, CALIF.

LOCATION.--Lat 40°39'00", long 123°29'35", in NW¼SW¼ sec.10, T.3 N., R.6 E., Trinity County, Trinity National Forest, on left bank 0.3 mi (0.5 km) downstream from Big Creek, 3.0 mi (4.8 km) northeast of Hyampom, and 3.5 mi (5.6 km) downstream from Hayfork Creek.

DRAINAGE AREA.--764 mi² (1,979 km²).

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,211.37 ft (369.226 m) above mean sea level.

AVERAGE DISCHARGE.--9 years, 1,698 ft³/s (48.09 m³/s), 1,230,000 acre-ft/yr (1.52 km³/yr).

EXTREMES.--Current year: Maximum discharge, 69,300 ft³/s (1,960 m³/s) Jan 16 (gage height, 26.68 ft or 8.132 m, from rating curve extended as explained below); minimum daily, 64 ft³/s (1.81 m³/s) Sept. 22-30. Period of record: Maximum discharge, 69,300 ft³/s (1,960 m³/s) Jan. 16, 1974 (gage height, 26.68 ft or 8.132 m), from rating curve extended above 23,000 ft³/s (651 m³/s) on basis of flood-routing study at gage height 30.45 ft (9.281 m); minimum daily, 38 ft³/s (1.08 m³/s) Sept. 14, 15, 1973. Flood of Dec. 22, 1964, reached a stage of 30.45 ft (9.281 m), from floodmarks (discharge, 88,000 ft³/s or 2,490 m³/s on basis of flood-routing study).

REMARKS.--Records fair. No regulation or diversion above station. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	165	11,800	5,720	3,650	11,300	14,900	1,610	684	330	141	89
2	85	160	9,000	4,810	3,240	8,960	12,100	1,580	671	318	134	86
3	85	154	5,000	4,340	3,040	6,540	8,380	1,540	628	310	132	85
4	82	160	3,800	3,950	2,950	5,240	6,510	1,500	616	302	129	83
5	82	737	3,000	3,670	2,790	4,760	5,740	1,480	616	295	128	84
6	88	1,860	2,700	3,320	2,610	4,640	5,320	1,470	596	288	142	85
7	123	2,120	2,850	2,960	2,460	4,750	4,780	1,470	577	285	147	84
8	151	2,500	3,050	2,630	2,280	4,330	4,430	1,470	553	320	136	82
9	135	2,420	2,700	2,390	2,180	4,060	4,280	1,440	541	380	127	82
10	123	5,990	2,250	2,200	2,110	3,880	3,910	1,390	523	335	123	85
11	123	10,700	2,450	2,080	2,020	4,990	3,580	1,340	498	310	117	86
12	114	9,590	2,800	2,730	1,980	6,060	3,360	1,290	488	290	111	83
13	114	6,010	5,200	5,800	1,910	5,720	3,130	1,230	478	270	106	76
14	112	5,140	4,700	10,900	1,780	5,240	2,960	1,190	465	265	105	74
15	112	5,070	4,300	28,900	1,720	5,140	2,830	1,160	452	235	104	73
16	109	7,150	3,800	59,200	1,820	5,070	2,680	1,120	455	230	102	73
17	109	5,930	4,600	30,500	1,730	4,940	2,570	1,080	495	230	100	73
18	106	5,460	5,420	15,400	2,350	4,760	2,580	1,070	470	220	99	72
19	106	4,000	4,640	14,400	6,360	4,420	2,390	1,020	490	215	97	70
20	112	3,000	6,170	9,810	4,420	4,150	2,200	969	555	210	98	67
21	129	2,500	15,300	7,250	3,770	3,910	2,100	930	490	198	99	65
22	416	2,100	9,900	6,510	3,410	3,680	2,050	900	440	185	98	64
23	1,260	1,800	6,800	5,460	3,150	3,490	1,980	855	415	180	97	64
24	938	1,700	6,030	4,830	3,080	3,350	1,930	834	400	183	96	64
25	523	1,600	5,940	4,590	3,030	3,420	1,880	812	390	178	95	64
26	368	1,500	5,750	4,030	3,240	3,450	1,820	798	380	169	92	64
27	295	1,450	6,350	3,680	3,330	3,580	1,720	777	370	166	92	64
28	257	1,480	6,950	3,460	7,890	4,680	1,660	757	360	163	91	64
29	231	2,200	11,700	3,260	-----	14,300	1,620	737	352	155	90	64
30	211	9,600	8,990	3,040	-----	32,400	1,610	717	342	150	90	64
31	186	-----	6,710	3,390	-----	13,400	-----	684	-----	145	88	-----
TOTAL	6,970	104,246	180,650	265,210	84,300	198,610	117,000	35,220	14,790	7,510	3,406	2,233
MEAN	225	3,475	5,827	8,555	3,011	6,407	3,900	1,136	493	242	110	74.4
MAX	1,260	10,700	15,300	59,200	7,890	32,400	14,900	1,610	684	380	147	89
MIN	82	154	2,250	2,080	1,720	3,350	1,610	684	342	145	88	64
AC-FT	13,820	206,800	358,300	526,000	167,200	393,900	232,100	69,860	29,340	14,900	6,760	4,430

CAL YR 1973 TOTAL 701,821 MEAN 1,923 MAX 18,900 MIN 38 AC-FT 1,392,000
WTR YR 1974 TOTAL 1,020,145 MEAN 2,795 MAX 59,200 MIN 64 AC-FT 2,023,000

		PEAK DISCHARGE (BASE, 8,600 FT ³ /S)					
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-11	1800	13.01	13,200	1-16	1445	26.68	69,300
12-1	unknown	14.27	16,400	2-28	2215	12.91	13,700
12-21	0945	14.44	17,700	3-30	0315	21.85	45,900
12-29	1200	12.98	13,900	4-1	1800	14.16	17,000

NOTE.--No gage-height record June 12 to July 23.

11529800 WILLOW CREEK NEAR WILLOW CREEK, CALIF.

LOCATION.--Lat 40°56'50", long 123°39'35", in SE¼SW¼ sec.30, T.7 N., R.5 E., Humboldt County, on right bank 0.1 mi (0.2 km) upstream from Boise Creek, 1.5 mi (2.4 km) northwest of town of Willow Creek, and 1.8 mi (2.9 km) upstream from mouth.

DRAINAGE AREA.--41.0 mi² (106.2 km²).

PERIOD OF RECORD.--August 1959 to September 1974 (discontinued). Prior to October 1960, published as "at Willow Creek."

GAGE.--Water-stage recorder. Datum of gage is 585.54 ft (178.473 m) above mean sea level. Aug. 13, 1959, to Dec. 22, 1964, at site 1.4 mi (2.3 km) downstream at datum 85.55 ft (26.076 m) lower.

AVERAGE DISCHARGE.--15 years, 180 ft³/s (5.098 m³/s), 130,400 acre-ft/yr (161 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 4,240 ft³/s (120 m³/s) Apr. 1 (gage height, 8.48 ft or 2.585 m), from rating curve extended above 1,400 ft³/s (39.6 m³/s) on basis of slope-area measurement at gage height 10.49 ft (3.197 m); minimum daily, 6.4 ft³/s (0.18 m³/s) Sept. 20-30.

Period of record: Maximum discharge, 17,000 ft³/s (481 m³/s) Dec. 22, 1964 (gage height, 20.6 ft or 6.28 m, present datum, from floodmarks), by field estimate of maximum flow; minimum daily, 3.8 ft³/s (0.11 m³/s) Sept. 12, 1973.

REMARKS.--Records good. No regulation; small diversion for irrigation of about 40 acres (162,000 m²) above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	31	1,660	518	382	742	2,760	114	51	24	15	9.7
2	19	29	967	403	317	716	1,470	107	50	24	15	9.7
3	18	28	699	341	273	588	930	102	48	23	15	9.7
4	17	42	555	287	245	493	648	97	48	23	14	9.3
5	17	300	498	255	222	425	577	94	48	23	14	9.0
6	24	444	478	225	210	449	493	91	47	23	14	9.0
7	39	502	577	192	197	449	403	88	42	23	14	9.0
8	30	740	478	169	180	382	373	85	42	23	14	8.5
9	30	407	493	152	166	341	337	82	42	23	14	8.3
10	27	377	434	136	158	306	302	82	39	23	14	8.3
11	25	606	453	126	150	302	280	79	38	23	13	8.3
12	21	954	434	142	144	403	260	75	38	23	11	8.3
13	20	848	571	144	126	430	240	74	38	23	11	8.3
14	19	842	523	216	119	453	220	73	38	22	11	7.7
15	19	679	416	488	119	483	200	72	38	21	11	7.6
16	18	775	390	1,530	180	449	188	72	38	20	11	7.6
17	17	691	577	1,120	160	407	178	72	38	19	11	7.6
18	17	668	518	762	610	373	190	72	38	19	11	7.6
19	17	529	425	729	1,400	337	173	71	37	19	11	6.6
20	23	626	599	566	500	310	160	67	37	18	11	6.4
21	66	637	886	468	380	284	142	67	36	18	11	6.4
22	329	508	704	394	340	255	138	64	34	17	11	6.4
23	1,220	430	582	341	275	229	140	64	34	17	11	6.4
24	449	523	577	306	210	210	148	63	33	17	11	6.4
25	242	518	599	273	270	219	150	61	32	17	11	6.4
26	125	523	593	245	210	207	140	59	32	17	11	6.4
27	74	653	816	216	200	219	134	57	31	17	9.7	6.4
28	66	610	983	197	736	317	128	54	29	17	9.7	6.4
29	48	896	1,210	180	-----	687	122	53	26	17	9.7	6.4
30	40	1,810	983	166	-----	1,300	118	51	25	15	9.7	6.4
31	30	-----	693	213	-----	879	-----	51	-----	15	9.7	-----
TOTAL	3,126	17,226	20,361	11,500	8,479	13,644	11,742	2,313	1,147	623	369.5	230.5
MEAN	101	574	657	371	303	440	391	74.6	38.2	20.1	11.9	7.68
MAX	1,220	1,810	1,660	1,530	1,400	1,300	2,760	114	51	24	15	9.7
MIN	17	28	390	126	119	207	118	51	25	15	9.7	6.4
AC-FT	6,200	34,170	40,390	22,810	16,820	27,060	23,290	4,590	2,280	1,240	733	457
CAL YR 1973	TOTAL 85,456.8 MEAN 234 MAX 1,810 MIN 3.8 AC-FT 169,500											
WTR YR 1974	TOTAL 90,761.0 MEAN 249 MAX 2,760 MIN 6.4 AC-FT 180,000											

DATE	TIME	PEAK DISCHARGE (BASE, 1,700 FT ³ /S)	DATE	TIME	DISCHARGE
10-23	1100	6.72 2,010	2-19	0215	6.76 2,050
11-30	2000	7.04 2,280	4-1	1130	8.48 4,240
1-16	1430	6.77 1,940			

NOTE.--No gage-height record June 24 to July 24.

KLAMATH RIVER BASIN

11530000 TRINITY RIVER AT HOOPA, CALIF.

LOCATION.--Lat 41°03'00", long 123°40'15", in SE¼NW¼ sec.25, T.8 N., R.4 E., Humboldt County, in Hoopa Valley Indian Reservation, on left bank at Hoopa, 0.4 mi (0.6 km) upstream from Supply Creek.

DRAINAGE AREA.--2,854 mi² (7,392 km²).

PERIOD OF RECORD.--October 1911 to January 1914, October 1916 to September 1918, October 1931 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Published as "near Hoopa" 1931-60.

GAGE.--Water-stage recorder. Datum of gage is 274.82 ft (83.765 m) above mean sea level. Prior to October 1931, nonrecording gage at site 0.4 mi (0.6 km) upstream at different datum. October 1931 to Dec. 22, 1964, water-stage recorder at site 2.5 mi (4.0 km) upstream at datum 31.67 ft (9.653 m) higher.

AVERAGE DISCHARGE (unadjusted).--47 years (1911-13, 1916-18, 1931-74), 5,460 ft³/s (154.6 m³/s), 3,956,000 acre-ft/yr (4.88 km³/yr).

EXTREMES.--Current year: Maximum discharge, 145,000 ft³/s (4,110 m³/s) Jan. 16 (gage height, 45.98 ft or 14.015 m); minimum daily, 503 ft³/s (14.2 m³/s) Sept. 30.

Period of record: Maximum discharge, 231,000 ft³/s (6,540 m³/s) Dec. 22, 1964 (gage height, 57.0 ft or 17.37 m, from floodmarks, present site and datum); minimum, 162 ft³/s (4.59 m³/s) Oct. 4, 1931.

REMARKS.--Records good. Flow regulated by Clair Engle Lake 84 mi (135 km) upstream since November 1960 (see sta 11525400). Small diversions above station for mining and irrigation. Records of chemical analyses, water temperatures, and sediment discharge for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1565: 1913. WRD Calif. 1970: 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	603	1,400	43,600	19,800	11,800	26,800	37,000	8,190	4,830	1,970	1,030	569
2	593	1,310	28,700	15,000	10,200	24,200	45,100	6,270	4,920	1,940	997	559
3	589	1,220	19,900	12,200	8,910	18,700	34,800	5,910	4,890	1,670	992	577
4	575	1,200	14,700	10,100	8,150	14,600	28,300	5,950	4,740	1,570	933	587
5	575	2,740	12,000	9,220	7,340	12,100	24,700	6,240	4,720	1,550	897	587
6	607	6,330	11,000	8,310	6,750	10,900	21,470	6,740	4,970	1,540	915	578
7	675	11,000	11,900	7,420	6,350	10,800	14,300	7,150	4,450	1,400	933	577
8	775	16,500	13,000	6,690	6,020	9,050	16,800	7,700	4,010	1,510	866	570
9	760	12,200	10,500	6,140	5,670	8,030	15,700	7,250	3,800	2,040	810	566
10	719	20,400	9,180	5,670	5,350	7,460	14,400	6,610	3,800	1,820	766	566
11	689	33,300	9,200	5,370	5,120	8,150	12,800	6,380	3,890	1,530	745	566
12	670	33,000	9,240	7,050	5,010	12,400	11,500	6,300	3,890	1,420	720	563
13	650	23,200	13,500	15,000	4,890	11,800	10,700	6,020	3,660	1,300	701	554
14	636	18,300	13,900	25,000	4,620	10,800	10,400	5,810	3,500	1,350	690	546
15	626	15,500	11,900	61,500	4,470	11,500	10,100	5,880	3,350	1,340	685	544
16	617	19,300	10,900	118,000	4,860	11,300	9,810	5,730	3,120	1,310	671	537
17	631	19,000	15,800	94,000	4,720	10,800	9,840	5,590	3,020	1,280	641	535
18	636	16,400	16,700	61,900	6,310	10,400	9,890	5,550	2,870	1,280	632	535
19	641	12,200	13,200	58,400	16,000	9,400	9,480	5,430	2,930	1,270	642	535
20	650	10,500	14,800	46,000	12,800	8,700	8,890	5,240	3,080	1,290	642	529
21	804	10,000	35,900	37,900	10,500	8,210	8,700	5,150	2,660	1,270	642	522
22	2,930	8,800	33,700	32,900	9,260	7,850	8,700	5,150	2,520	1,220	634	515
23	8,910	7,850	24,600	27,700	8,090	7,440	8,760	5,180	2,370	1,100	620	511
24	6,390	8,040	20,600	23,400	7,520	7,070	8,630	5,160	2,310	1,110	610	506
25	3,590	7,670	18,900	20,700	7,310	7,090	9,310	5,360	2,200	1,080	607	506
26	2,640	7,500	16,700	18,200	7,660	7,340	8,070	5,790	2,050	1,000	593	509
27	2,100	7,630	18,000	16,300	7,890	7,310	7,850	6,190	1,940	1,090	588	509
28	1,930	8,190	22,000	14,000	13,800	9,380	7,770	5,770	1,840	1,190	542	505
29	1,820	13,500	30,600	12,100	-----	18,500	7,870	5,440	1,850	1,290	577	505
30	1,610	32,700	32,400	10,000	-----	70,000	8,190	5,030	1,920	1,190	577	503
31	1,470	-----	24,700	9,790	-----	45,000	-----	4,820	-----	1,110	576	-----
TOTAL	47,111	386,880	581,720	815,760	217,170	443,100	442,360	184,980	100,100	43,230	22,514	16,271
MEAN	1,520	12,900	18,770	26,310	7,756	14,290	14,750	5,967	3,337	1,395	726	542
MAX	8,910	33,300	43,600	118,000	16,000	70,000	45,100	8,190	4,970	2,040	1,030	587
MIN	575	1,200	9,180	5,370	4,470	7,070	7,770	4,820	1,840	1,080	576	503
AC-FI	93,440	767,400	1,154M	1,618M	430,800	878,900	877,400	366,900	198,500	85,750	44,660	32,270
CAL YR 1973	TOTAL 2,212,133	MEAN 6,061	MAX 43,600	MIN 444	AC-FI 4,388,000							
WTR YR 1974	TOTAL 3,301,196	MEAN 9,044	MAX 118,000	MIN 503	AC-FI 6,548,000							

PEAK DISCHARGE (BASE, 22,000 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-11	2345	29.56	38,600	1-16	1930	45.98	145,000
11-16	2030	25.08	22,200	3-1	0500	26.83	28,200
12-1	0715	30.71	48,800	3-30	unknown	37.52	79,000
12-21	2200	29.50	42,600	4-1	2200	32.75	53,200
12-29	1930	28.84	39,400				

11530300 BLUE CREEK NEAR KLAMATH, CALIF.

LOCATION.--Lat 41°27'00", long 123°53'40", in NE¼NW¼ sec.12, T.12 N., R.2 E., Humboldt County, on left bank 600 ft (183 m) downstream from West Fork, 3.0 mi (4.8 km) upstream from mouth, and 9.2 mi (14.8 km) southeast of Klamath.

DRAINAGE AREA.--120 mi² (311 km²).

PERIOD OF RECORD.--September 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 140.65 ft (42.870 m) above mean sea level.

AVERAGE DISCHARGE.--9 years, 812 ft³/s (23.00 m³/s), 588,300 acre-ft/yr (725 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 31,600 ft³/s (895 m³/s) Jan. 15 (gage height, 17.77 ft or 5.416 m, from outside high-water mark), from rating curve extended above 5,500 ft³/s (156 m³/s) as explained below; minimum daily, 52 ft³/s (1.47 m³/s) Sept. 26-30.

Period of record: Maximum discharge, 33,000 ft³/s (935 m³/s) Mar. 2, 1972 (gage height, 18.10 ft or 5.517 m), from rating curve extended above 1,000 ft³/s (28.3 m³/s) on basis of step-backwater computation at 21.55 ft (6.568 m); minimum daily, 43 ft³/s (1.22 m³/s) Nov. 1, 1965.

Flood of Dec. 22, 1964, reached a stage of 21.55 ft (6.568 m), from floodmarks (discharge, 48,000 ft³/s or 1,360 m³/s, by step-backwater computation).

REMARKS.--Records poor. No regulation or diversion above station. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	373	5,000	2,000	1,780	2,020	7,970	608	279	130	85	63
2	88	342	3,700	1,800	1,280	1,970	4,900	560	280	130	83	63
3	86	332	2,700	1,570	1,130	1,650	3,480	541	272	127	83	63
4	84	637	2,000	1,400	1,090	1,440	2,680	537	263	122	80	63
5	83	1,410	1,450	1,270	1,010	1,330	2,230	555	290	121	80	60
6	89	8,090	1,380	1,150	884	1,600	1,970	579	260	121	80	60
7	104	2,750	3,450	1,040	822	1,470	1,620	585	245	121	80	60
8	93	5,800	2,650	950	777	1,290	1,510	566	230	128	78	60
9	93	4,600	2,000	880	734	1,100	1,380	526	224	145	76	60
10	90	4,200	1,450	814	667	982	1,240	467	220	127	75	60
11	87	4,900	1,400	712	667	1,210	1,180	447	214	121	75	60
12	85	5,400	1,700	916	659	1,780	1,150	441	205	117	75	58
13	83	4,200	2,800	1,990	595	1,740	1,070	414	202	114	75	58
14	82	3,450	2,200	5,120	581	2,930	1,010	392	196	111	72	57
15	81	3,300	1,750	7,130	595	3,340	952	388	190	109	72	56
16	80	3,900	1,650	7,230	1,080	2,540	888	380	187	109	72	53
17	77	3,100	3,450	4,900	884	2,100	854	362	186	107	72	53
18	76	2,300	2,550	3,500	3,830	1,900	861	344	179	107	72	53
19	76	1,800	1,900	2,700	5,030	1,710	776	327	173	105	69	53
20	90	2,250	3,000	2,200	2,500	1,510	736	313	172	102	69	53
21	279	2,600	4,900	1,900	2,000	1,400	734	311	165	102	69	53
22	547	1,950	3,800	1,620	1,710	1,230	725	310	162	98	69	53
23	2,900	1,480	2,900	1,500	1,470	1,150	705	312	157	98	69	53
24	2,540	1,520	2,150	1,350	1,300	1,010	660	302	154	96	66	53
25	1,540	1,380	2,250	1,200	1,210	1,120	626	311	151	92	66	53
26	841	1,550	1,870	1,070	1,320	1,110	592	327	149	92	66	52
27	595	2,050	2,500	950	1,300	1,210	562	334	145	90	66	52
28	526	2,800	3,100	845	1,930	1,530	552	314	141	88	66	52
29	447	6,000	4,200	814	-----	5,220	568	297	138	88	66	52
30	390	7,000	3,000	755	-----	6,920	602	285	135	87	66	52
31	366	-----	2,400	1,120	-----	4,120	-----	279	-----	85	63	-----
TOTAL	12,684	47,454	81,250	62,396	38,835	61,632	44,783	12,714	5,964	3,390	2,255	1,691
MEAN	409	3,248	2,621	2,013	1,387	1,988	1,493	410	199	109	72.7	56.4
MAX	2,900	8,090	5,000	7,230	5,030	6,920	7,970	608	290	145	85	63
MIN	76	332	1,380	712	581	982	552	279	135	85	63	52
AC-FT	25,170	193,300	161,200	123,800	77,030	122,200	88,830	25,220	11,830	6,720	4,470	3,350
CAL YR 1973	TOTAL 324,368		MEAN 889	MAX 8,090	MIN 60	AC-FT 643,400						
WTR YR 1974	TOTAL 425,052		MEAN 1,165	MAX 8,090	MIN 52	AC-FT 843,100						

		PEAK DISCHARGE (BASE, 7,000 FT ³ /S)					
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-5	1730	14.16	13,800	2-18	2400	10.81	8,410
11-8	0415	14.01	13,200	3-30	0100	11.37	9,690
11-30	unknown	17.02	28,300	4-1	0730	11.73	10,600
1-15	unknown	17.77	31,600				

NOTE.--No gage-height record Nov. 8 to Jan. 9, Jan. 15-27.

KLAMATH RIVER BASIN

11530500 KLAMATH RIVER NEAR KLAMATH, CALIF.
(International Hydrological Decade River Station)

LOCATION.--Lat 41°30'45", long 123°58'30", in SW¼ sec.17, T.13 N., R.2 E., Del Norte County, on right bank 2.8 mi (4.5 km) upstream from Turwar Creek, and 3.3 mi (5.3 km) east of Klamath.

DRAINAGE AREA.--12,100 mi² (31,340 km²), approximately (not including Lost River or Lower Klamath Lake basins).

PERIOD OF RECORD.--October 1910 to December 1926 (published as "near Requa"), October 1950 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 5.60 ft (1.707 m) above mean sea level (levels by Corps of Engineers). Prior to June 1926, nonrecording gage at same site at different datum.

AVERAGE DISCHARGE.--40 years, 17,790 ft³/s (503.8 m³/s), 12,890,000 acre-ft/yr (15.9 km³/yr).

EXTREMES.--Current year: Maximum discharge, 529,000 ft³/s (15,000 m³/s) Jan. 16 (gage height, 41.96 ft or 12.789 m), from rating curve extended above 220,000 ft³/s (6,230 m³/s); minimum daily, 2,600 ft³/s (73.6 m³/s) Oct. 2.

Period of record: Maximum discharge, 557,000 ft³/s (15,800 m³/s) Dec. 23, 1964 (gage height, 55.3 ft or 16.86 m, from floodmarks), from rating curve extended above 230,000 ft³/s (6,510 m³/s) on basis of flood-routing study; minimum observed, 1,340 ft³/s (37.9 m³/s) July 31, Aug. 1, 1924.

REMARKS.--Records good. Flow considerably regulated by reservoirs and powerplants above station. Large diversions for irrigation above station. Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1285: 1951(P). WSP 1445: 1918-20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,660	5,520	121,000	69,000	44,100	74,200	162,000	32,300	19,700	8,200	3,840	2,770
2	2,600	5,370	92,200	58,700	40,100	76,400	173,000	30,500	20,900	8,010	3,730	2,750
3	3,050	4,990	67,900	51,500	34,700	61,800	135,000	28,700	21,500	7,300	4,010	2,980
4	3,120	5,580	55,400	45,800	31,600	50,600	112,000	27,600	21,200	6,810	3,870	3,000
5	3,060	25,200	44,300	41,300	29,900	43,900	97,400	28,000	21,000	6,550	3,750	3,000
6	3,070	57,000	40,000	37,900	26,200	42,500	89,800	30,800	21,900	6,400	3,730	2,980
7	3,300	65,000	47,400	34,600	24,900	41,900	78,900	33,700	20,500	6,240	3,750	2,940
8	3,430	80,000	57,200	32,000	23,000	38,000	72,200	35,700	18,300	6,150	3,700	2,940
9	3,530	60,000	46,600	22,000	34,400	67,000	35,400	16,800	7,000	3,560	2,980	
10	3,430	80,000	40,000	27,400	21,000	32,400	61,200	31,900	16,800	6,940	3,450	3,000
11	3,330	96,200	37,900	25,200	20,300	33,100	56,900	29,200	17,800	6,150	3,380	3,000
12	3,230	113,000	38,300	26,200	18,000	42,600	52,800	27,800	18,400	5,700	3,310	2,980
13	3,180	100,000	47,400	33,800	16,200	48,100	49,700	26,500	18,100	5,540	3,270	2,960
14	3,160	84,100	56,400	54,600	15,300	49,800	45,700	23,600	17,600	5,420	3,220	2,960
15	3,130	74,800	48,100	170,000	15,900	59,600	43,700	23,400	16,800	5,300	3,180	2,940
16	3,080	81,500	43,600	397,000	20,500	58,700	42,900	22,500	15,600	5,180	3,150	2,920
17	3,060	79,200	62,800	367,000	19,900	57,400	42,000	21,300	14,900	5,070	3,110	2,910
18	3,080	66,500	75,400	199,000	30,500	57,100	61,400	20,300	14,500	4,900	3,070	2,920
19	3,180	53,600	59,400	191,000	68,100	53,300	39,400	20,100	14,200	5,010	3,070	2,870
20	3,100	48,200	59,000	155,000	52,300	50,000	36,400	19,500	13,600	5,070	3,070	2,840
21	4,630	48,700	108,000	128,000	42,800	46,900	34,700	19,000	12,300	5,070	3,070	2,840
22	12,100	45,000	110,000	107,000	39,000	44,600	34,100	20,000	11,600	4,810	3,050	2,820
23	32,700	40,500	86,000	92,900	34,200	41,900	34,100	20,700	10,900	4,620	2,980	2,830
24	33,000	39,900	75,000	79,200	31,000	39,400	34,500	20,700	10,200	4,440	2,960	2,830
25	18,300	37,900	71,600	67,800	29,100	39,300	32,000	21,100	9,950	4,310	2,980	2,840
26	12,500	38,100	66,600	59,200	30,300	41,300	29,500	23,700	9,490	4,210	2,920	2,820
27	9,060	39,100	68,400	52,200	31,300	40,800	28,000	27,300	8,710	4,140	2,850	2,800
28	7,600	41,500	79,400	46,400	41,900	48,600	27,500	27,000	8,290	4,140	2,830	2,760
29	7,320	58,000	92,100	41,100	-----	66,800	27,800	25,400	8,080	4,040	2,790	2,770
30	6,430	94,100	101,000	35,900	-----	183,000	30,300	22,500	8,220	4,340	2,790	2,830
31	5,670	-----	81,400	35,000	-----	154,000	-----	20,000	-----	4,010	2,790	-----
TOTAL	212,140	1,668,6M	2,079,8M	2,791,1M	854,100	1,752,4M	1,812,0M	796,200	457,840	171,760	101,230	86,780
MEAN	6,843	55,620	67,090	90,040	30,500	56,530	60,400	25,680	15,260	5,541	3,265	2,893
MAX	33,000	113,000	121,000	397,000	68,100	183,000	173,000	35,700	21,900	8,290	4,010	3,000
MIN	2,600	4,990	37,900	25,200	15,300	32,400	27,500	19,000	8,080	4,010	2,790	2,750
AC-FT	420,800	3,310M	4,125M	5,536M	1,694M	3,476M	3,594M	1,579M	908,100	340,700	200,800	172,100
CAL YR 1973	TOTAL	7,660,050	MEAN	20,990	MAX	121,000	MIN	1,810	AC-FT	15,190,000		
WTR YR 1974	TOTAL	12,783,910	MEAN	35,020	MAX	397,000	MIN	2,600	AC-FT	25,360,000		

PEAK DISCHARGE (BASE, 90,000 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-12	0400	22.71	128,000	1-16	2230	41.96	529,000
12-1	1445	22.62	127,000	3-30	1700	28.00	227,000
12-21	2045	22.68	128,000	4-2	0245	26.06	194,000
12-30	0115	21.31	112,000				

11532500 SMITH RIVER NEAR CRESCENT CITY, CALIF.

LOCATION.--Lat 41°47'22", long 124°03'14", in SW¼SW¼ sec.10, T.16 N., R.1 E. (unsurveyed), Del Norte County, Six Rivers National Forest, on left bank 0.5 mi (0.8 km) downstream from South Fork, and 8 mi (13 km) east of Crescent City.

DRAINAGE AREA.--609 mi² (1,577 km²).

PERIOD OF RECORD.--October 1931 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 89.61 ft (27.313 m) above mean sea level.

AVERAGE DISCHARGE.--43 years, 3,892 ft³/s (110.2 m³/s), 2,820,000 acre-ft/yr (3.48 km³/yr).

EXTREMES.--Current year: Maximum discharge, 106,000 ft³/s (3,000 m³/s) Nov. 5 (gage height, 33.97 ft or 10.354 m); minimum daily, 202 ft³/s (5.72 m³/s) Sept. 28, 29.
Period of record: Maximum discharge, 228,000 ft³/s (6,460 m³/s) Dec. 22, 1964 (gage height, 48.5 ft or 14.78 m, from floodmarks), from rating curve extended above 110,000 ft³/s (3,120 m³/s) on basis of slope-area measurement at gage height 39.51 ft (12.043 m); minimum daily, 160 ft³/s (4.53 m³/s) Oct. 24, 25, 1964.

REMARKS.--Records excellent. No regulation or diversion above station. Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	430	2,050	31,400	9,000	13,000	15,900	42,900	2,530	1,220	445	317	252
2	389	1,840	18,400	7,000	8,360	14,300	24,600	2,290	1,280	473	310	241
3	364	1,760	12,500	5,760	6,150	9,750	15,600	2,160	1,250	472	303	243
4	344	3,430	9,800	4,900	5,500	7,430	11,400	2,130	1,200	479	298	241
5	332	53,700	8,100	4,460	4,960	6,530	10,000	2,250	1,460	474	296	240
6	360	66,500	7,630	4,040	4,370	9,830	10,300	2,410	1,290	457	297	238
7	500	23,300	20,300	3,700	3,900	8,190	9,610	2,430	1,160	473	293	233
8	430	51,100	14,800	3,430	3,540	6,320	7,340	2,360	1,050	510	286	232
9	416	36,300	10,100	3,190	3,250	5,300	6,550	2,180	1,000	576	280	233
10	385	39,600	7,650	2,900	3,020	4,770	5,770	1,930	1,000	570	278	236
11	360	41,100	7,390	2,850	2,810	6,420	5,220	1,810	891	469	273	232
12	344	49,200	9,060	5,200	2,800	13,600	4,810	1,770	950	472	270	225
13	328	33,200	16,500	21,100	2,600	11,600	4,430	1,650	910	470	270	223
14	316	29,400	14,900	34,800	2,480	19,500	4,130	1,570	880	478	270	222
15	308	28,300	10,600	75,300	2,600	19,900	3,920	1,620	852	418	269	221
16	297	30,700	9,010	75,500	7,000	12,700	3,730	1,600	811	412	264	222
17	286	19,300	23,700	45,600	5,000	10,800	3,570	1,570	796	411	269	221
18	283	13,400	16,000	33,300	20,000	9,060	3,590	1,430	762	417	270	218
19	276	9,940	10,700	30,900	30,700	7,360	3,360	1,370	737	411	270	214
20	348	12,100	14,300	16,900	13,700	6,470	3,120	1,280	723	393	270	213
21	5,950	13,100	27,900	11,000	10,500	5,780	3,020	1,250	677	341	267	211
22	5,180	11,000	19,300	8,120	9,240	5,240	2,960	1,220	660	373	262	211
23	13,500	9,060	14,500	6,550	7,390	4,770	2,840	1,220	645	370	259	212
24	9,520	9,260	12,100	5,520	6,340	4,410	2,650	1,220	621	371	259	211
25	4,970	8,870	12,100	4,880	5,960	4,520	2,520	1,270	600	370	255	207
26	3,530	9,310	9,920	4,290	8,720	4,700	2,370	1,400	591	344	252	204
27	2,760	11,100	15,300	3,830	8,980	5,040	2,220	1,570	570	319	249	203
28	2,480	16,800	18,400	3,480	15,100	10,500	2,150	1,460	554	375	244	202
29	2,250	32,700	25,700	3,190	-----	25,000	2,200	1,350	531	371	250	202
30	1,920	41,200	22,000	2,950	-----	47,800	2,440	1,260	512	375	253	203
31	1,720	-----	16,000	5,200	-----	20,500	-----	1,200	-----	371	255	-----
TOTAL	60,876	708,520	469,060	448,990	217,970	344,090	209,320	52,760	26,299	12,994	8,466	6,672
MEAN	1,964	23,620	15,130	14,480	7,785	11,100	6,444	1,702	877	418	273	222
MAX	13,500	66,500	33,400	75,500	30,700	47,800	42,900	2,530	1,460	576	317	252
MIN	276	1,760	7,630	2,850	2,480	4,410	2,150	1,200	512	371	248	202
AC-FT	120,700	1,405M	930,400	840,600	432,300	682,500	413,200	104,600	52,160	25,670	16,790	13,230
C&L YR 1973	TOTAL 1,905,147 MEAN 5,220 MAX 66,500 MIN 211 AC-FT 3,779,000											
WTR YR 1974	TOTAL 2,564,967 MEAN 7,027 MAX 75,500 MIN 202 AC-FT 5,088,000											

PEAK DISCHARGE (BASE, 36,000 FT ³ /S)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-5	1815	33.97	106,000	1-15	0315	31.69	88,800
11-8	0800	30.84	82,700	2-19	unknown	--	41,000
11-12	0830	27.78	62,600	3-30	0330	27.85	63,000
11-30	1545	26.10	52,500	4-1	0945	27.73	62,300

11532620 MILL CREEK NEAR CRESCENT CITY, CALIF.

LOCATION.--Lat 41°44'32", long 124°06'06", in NE¼NE¼ sec.31, T.16 N., R.1 E., Del Norte County, Redwood National Park, on left bank 200 ft (61 m) downstream from small left-bank tributary, 0.9 mi (1.4 km) downstream from confluence of West Branch and East Fork Mill Creeks, and 4.9 mi (7.9 km) east of Crescent City.

DRAINAGE AREA.--28.6 mi² (74.1 km²).

PERIOD OF RECORD.--January to September 1974.

GAGE.--Water-stage recorder. Altitude of gage is 180 ft (55 m), from topographic map.

EXTREMES.--Maximum discharge observed during period, 2,860 ft³/s (81.0 m³/s) Jan. 16 (gage height, 7.00 ft or 2.134 m); minimum daily, 2.6 ft³/s (0.074 m³/s) Sept. 7.

REMARKS.--Records good. Minor regulation and diversion above station for lumber mill and park campground use. Records of chemical analyses, water temperatures, and sediment discharge for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, JANUARY TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				--	735	530	1,680	42	16	9.9	7.1	5.4
2				--	577	360	947	40	17	9.7	7.2	5.6
3				--	422	250	598	39	17	9.8	6.9	5.2
4				--	260	220	422	37	17	9.8	6.4	4.1
5				--	186	195	348	34	21	9.7	6.4	3.8
6				--	157	420	302	30	18	9.4	5.9	3.5
7				--	149	342	248	33	16	9.4	5.2	2.6
8				--	139	268	239	32	16	11	4.8	3.1
9				--	107	220	239	30	15	12	4.8	3.5
10				--	103	195	210	29	15	11	4.8	3.3
11				--	86	254	183	29	14	10	4.8	3.0
12				--	122	481	160	28	14	9.5	4.4	3.5
13				--	90	423	140	25	14	9.2	3.8	3.8
14				--	84	511	125	26	14	9.1	3.8	4.0
15				--	78	518	112	27	14	8.6	3.8	4.3
16				2,000	74	376	102	39	14	8.6	3.8	4.4
17				950	68	307	94	37	13	8.6	4.1	3.9
18				600	350	247	89	30	13	8.6	4.6	3.8
19				410	836	206	81	27	13	8.7	4.6	3.5
20				320	566	175	75	26	13	8.6	4.1	3.5
21				250	535	150	70	24	13	8.6	3.8	3.5
22				205	456	132	66	23	13	8.4	3.8	3.5
23				171	344	119	64	22	12	8.1	3.8	3.5
24				141	269	108	59	22	12	7.9	3.8	3.5
25				118	225	108	58	21	12	7.8	3.8	3.5
26				105	343	96	55	20	12	7.5	3.8	3.6
27				90	325	118	51	20	12	7.2	3.8	3.8
28				80	769	146	48	19	11	6.6	3.8	3.8
29				69	-----	591	46	17	11	6.0	4.0	3.8
30				64	-----	1,550	44	18	10	7.2	5.0	3.8
31		-----		195	-----	779	-----	17	-----	6.9	5.2	-----
TOTAL				--	8,455	10,395	6,955	863	422	273.4	145.9	114.1
MEAN				--	302	335	232	27.8	14.1	8.82	4.71	3.80
MAX				--	836	1,550	1,680	42	21	12	7.2	5.6
MIN				--	68	96	44	17	10	6.0	3.8	2.6
AC-F1				--	16,770	20,620	13,800	1,710	837	542	289	226

PEAK DISCHARGE (BASE, 1,100 FT³/S)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
1-16	unknown	7.00	2,860	4-1	0915	6.44	2,480
3-30	0145	5.68	2,000				

NOTE.--No gage-height record Jan. 16-23.

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. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

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 discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in a third table.

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 the 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 YEAR 1974

DISCHARGE MEASUREMENTS MADE AT LOW FLOW PARTIAL RECORD STATIONS DURING WATER YEAR 1974						
Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Measurements	
					Date	Discharge (ft ³ /s)
NAPA RIVER BASIN						
11458120	Milliken Creek tributary near Napa	Lat 38°20'06", long 122°16'46", in Yajome Grant, Napa County, at upstream side of bridge, 0.7 mi (1.1 km) upstream from mouth, and 2.6 mi (4.2 km) north of Napa.	2.54	1971-74	11-13-72	a 1.32
					1-13-73	a 27.2
					11-23-73	23.5
					1-17-74	24.4
11458150	Sarco Creek near Napa	Lat 38°19'56", long 122°15'06", in Tulucay Grant, Napa County, at culvert on Vichy Avenue, 3 mi (5 km) northwest of Napa.	3.56	1971-74	11-13-72	a 5.59
					1-13-73	a 38.0
					1-24-74	8.95
					7-12-74	0

a Not previously published.

Crest-stage partial-record stations

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 the current 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 obtained.

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1974

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft ³ /s)
DALE LAKE BASIN							
10253320	Quail Wash near Joshua Tree	Lat 34°07'04", long 116°18'27", in SW¼NW¼NE¼ sec.1, T.1 S., R.6 E., San Bernardino County, on right bank 0.2 mi (0.3 km) downstream from Coyote Hole Spring and 1.1 mi (1.8 km) south of Joshua Tree.	100	1964-71a 1972-74	9-26-74	2.30	20.7

See footnotes at end of table.

Crest-stage partial-record stations--Continued

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1974--Continued

Station No.	Station name	Location	Drain- age area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft ³ /s)
DALE LAKE BASIN--Continued							
10253350	Fortynine Palms Creek near Twentynine Palms	Lat 34°07'12", long 116°05'43" (unsurveyed), San Bernardino County, in Joshua Tree National Monument, on left bank 50 ft (15 m) upstream from North Monument boundary, 1.1 mi (1.8 km) downstream from Fortynine Palms Oasis, and 2.6 mi (4.2 km) southwest of Twentynine Palms.	8.55	1962-71a 1972-74	--	--	0
SALTON SEA BASIN							
10257800	Long Creek near Desert Hot Springs	Lat 33°57'53", long 116°26'35", in SW¼SE¼SE¼ sec.27, T.2 S., R.5 E., Riverside County, on left bank 0.4 mi (0.6 km) downstream from Metropolitan Water District aqueduct and 3.3 mi (5.3 km) east of Desert Hot Springs.	19.4	1963-71a 1972-74	--	--	0
EMERSON LAKE BASIN							
10260200	Pipes Creek near Yucca Valley	Lat 34°10'19", long 116°32'45", in NE¼SE¼NE¼ sec.15, T.1 N., R.4 E., San Bernardino County, on left bank 2.8 mi (4.5 km) upstream from Antelope Wash and 6.8 mi (10.9 km) northwest of Yucca Valley.	15.1	1958-71a 1972-74	--	--	0
LUCERNE DRY LAKE BASIN							
10260400	Cushenbury Creek near Lucerne Valley	Lat 34°21'52", long 116°50'42", in NE¼SW¼NE¼ sec.14, T.3 N., R.1 E., San Bernardino County, in San Bernardino National Forest, on right bank 0.3 mi (0.5 km) upstream from forest boundary and 9 mi (14 km) southeast of Lucerne Valley.	6.36	1957-71a 1972-74	--	--	0
INDIAN WELLS VALLEY							
10264878	Ninemile Creek near Brown	Lat 35°50'35", long 117°55'35" (unsurveyed), Inyo County, on left bank 600 ft (183 m) upstream from Los Angeles Aqueduct and 6.4 mi (10.3 km) northwest of Brown.	10.4	1961-71a 1972-74	4-2-74	4.30	5.6
SANTA MONICA CREEK BASIN							
11119540	Santa Monica Creek at Carpinteria	Lat 34°24'51", long 119°31'32", in Pueblo Lands of Santa Barbara, Santa Barbara County, on right bank of Foothill Road (Hwy 192), 1.0 mi (1.6 km) northwest of Carpinteria.	3.64	1969 1972-74	1-7-74	1.5	70
SAN YSIDRO CREEK BASIN							
11119660	San Ysidro Creek at Montecito	Lat 34°26'46", long 119°37'17", in Pueblo Lands of Santa Barbara, Santa Barbara County, on right bank 0.5 mi (0.8 km) north of intersection of San Ysidro and East Valley Roads, Montecito.	3.07	1969 1972-74	1-7-74	20.69	27
SYCAMORE CREEK BASIN							
11119700	Sycamore Creek at Santa Barbara	Lat 34°25'45", long 119°40'35", in Pueblo Lands of Santa Barbara, Santa Barbara County, on left bank at intersection of Sycamore Canyon Road and Alameda Padre Serra in Santa Barbara.	3.41	1971-72a 1973-74	1-7-74	2.92	402

See footnotes at end of table.

Crest-stage partial-record stations--Continued

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1974--Continued

Station No.	Station name	Location	Drain- age area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft ³ /s)
MISSION CREEK BASIN							
11119740	Mission Creek at Santa Barbara	Lat 34°27'09", long 119°42'30", in Pueblo Lands of Santa Barbara, Santa Barbara County, on left bank 0.4 mi (0.6 km) north of intersection of Foothill Road (Hwy 192) and Mission Canyon Road, 0.8 mi (1.3 km) north of Santa Barbara.	2.78	1972-74	1-7-74	17.46	430
ATASCADERO CREEK BASIN							
11119900	Atascadero Creek at Puente Road, near Goleta	Lat 34°25'56", long 119°47'00", in Pueblo Lands of Santa Barbara, Santa Barbara County, on right bank of Puente Drive, 0.4 mi (0.6 km) south of Hollister Avenue, and 2.4 mi (3.9 km) east of Goleta.	3.86	1971-72a 1973-74	1-7-74	1.91	173
SANTA YNEZ RIVER BASIN							
11128700	Thumbelina Creek at Buellton	Lat 34°36'37", long 120°11'01", in San Carlos De Jonata Grant, Santa Barbara County, on right side of channel on north side of State Highway 246, 0.6 mi (1.0 km) east of Buellton.	3.07	1972-74	12-1-73	5.47	27
11135200	Rodeo-San Pasqual Creek near Lompoc	Lat 34°38'42", long 120°30'57", in Lompoc Grant, Santa Barbara County, on left bank 0.1 mi (0.2 km) east of Dewolf Avenue and at Highway 246, 3.3 mi (5.3 km) west of Lompoc.	7.80	1971-72a 1973-74	12-1-73	2.37	251
NAPA RIVER BASIN							
11458120 ^{1/}	Milliken Creek tributary near Napa	Lat 38°20'06", long 122°16'46", in Yajome Grant, Napa County, on right bank at upstream side of bridge, 0.7 mi (1.1 km) upstream from mouth, and 2.6 mi (4.2 km) north of Napa.	2.54	1972-74	3-31-74	52.32	103
11458140	Milliken Creek at Napa	Lat 38°19'31", long 122°16'24", in Yajome Grant, Napa County, on right bank at upstream side of West Trancas Road bridge, at Napa, and 0.7 mi (1.1 km) upstream from mouth.	20.8	1971-74	11-17-73	52.26	--
11458150 ^{1/}	Sarco Creek near Napa	Lat 38°19'56", long 122°15'06", in Tulucay Grant, Napa County, on left bank at culvert on Vichy Avenue, 3 mi (5 km) northwest of Napa.	3.56	1971-74	11-17-73	51.47	250
SAN RAFAEL CREEK BASIN							
11459790	San Rafael Creek at Sirard Lane, at San Rafael	Lat 37°59'04", long 122°32'58", in San Pedro Santa Margarita Las Gallinas Grant, Marin County, on left bank on upstream wingwall of culvert on Sirard Lane in San Rafael.	.19	1972-74b	11-17-73	53.76	62
11459810	Irwin Creek tributary at San Rafael	Lat 37°59'28", long 122°30'29", in San Pedro Santa Margarita Las Gallinas Grant, Marin County, on right bank at end of Cascade Lane in Black Canyon in San Rafael.	.11	1972-74b	3-30-74	50.37	3.9

See footnotes at end of table.

Crest-stage partial-record stations--Continued

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1974--Continued

Station No.	Station name	Location	Drain- age area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft ³ /s)
SAN RAFAEL CREEK BASIN--Continued							
11459820	Irwin Creek tributary No. 2 at San Rafael	Lat 37°58'56", long 122°30'24", in San Pedro Santa Margarita Las Gallinas Grant, Marin County, on right bank at upstream side of culvert on Deer Park Road at San Rafael.	0.16	1972-74b	11-17-73	51.56	15
RUSSIAN RIVER BASIN							
11460940	Russian River near Redwood Valley	Lat 39°19'10", long 123°13'20", in NW¼ sec.20, T.17 N., R.12 W., Mendocino County, on left bank 600 ft (183 km) upstream from Rocky Creek and 3.8 mi (6.1 km) north of town of Redwood Valley.	14.1	1964-68a 1969-74	1-16-74	9.15	2,660
11463940	Franz Creek near Kellogg	Lat 38°36'30", long 122°45'35", in Mallacomes Grant, Sonoma County, on left bank at down- stream side of highway bridge, 100 ft (30 m) downstream from Bidwell Creek, and 2 mi (3 km) south of Kellogg.	15.7	1956 1958-62 1963-68a 1969-74	1-16-74	5.31	1,050
11464050	Dry Creek tributary near Hopland	Lat 38°53'10", long 123°09'15", in sec.13, T.12 N., R.12 W., Mendocino County, at culvert on State Highway 128, 6.5 mi (10.5 km) southwest of Hopland.	1.19	1959-67 1968-69a 1970-74	1-16-74	4.68	255
NAVARRO RIVER BASIN							
11467880	Navarro River tributary near Philo	Lat 39°04'25", long 123°27'25", in NE¼ sec.13, T.14 N., R.15 W., Mendocino County, at culvert on State Highway 128, 1.2 mi (1.9 km) northwest of Philo.	.65	1962-74	1-16-74	9.99	127
ALBION RIVER BASIN							
11468010	Albion River near Comptche	Lat 39°15'40", long 123°37'00", in SW¼ sec.11, T.16 N., R.16 W., Mendocino County, on right bank 2,000 ft (610 m) downstream from Morrison Gulch and 1.7 mi (2.7 km) west of Comptche.	14.4	1961-69a 1970-74	1-16-74	12.35	4,430
11468020	Albion River tributary near Comptche	Lat 39°14'22", long 123°35'44", in SW¼ sec.13, T.16 N., R.16 W., at culvert on Navarro-Comptche Road, 1.8 mi (2.9 km) south of Comptche, and 6.5 mi (10.5 km) northwest of Navarro.	.40	1962-74	1-16-74	11.60	110
BIG RIVER BASIN							
11468070	South Fork Big River near Comptche	Lat 39°13'47", long 123°27'53", in SW¼ sec.19, T.16 N., R.14 W., Mendocino County, on left bank 250 ft (76 m) downstream from Daugherty Creek and 7.2 mi (11.6 km) east of Comptche.	36.2	1960-71a 1974	1-16-74	13.3	5,250
WARNER CREEK BASIN							
11468150	Warner Creek near Fort Bragg	Lat 39°23'13", long 123°48'42", in NE¼ sec.36, T.18 N., R.18 W., Mendocino County, at culvert on State Highway 1, 1.6 mi (2.6 km) north of Caspar, and 4 mi (6 km) south of Fort Bragg.	.61	1962-68 1969a 1970-74	1-16-74	3.78	59

See footnotes at end of table.

Crest-stage partial-record stations--Continued

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1974--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft ³ /s)
TENMILE RIVER BASIN							
11468600	Middle Fork Tenmile River near Fort Bragg	Lat 39°34'22", long 123°41'57", in NE¼NE¼ sec.25, T.20 N., R.17 W., Mendocino County, on right bank 0.8 mi (1.3 km) upstream from confluence with North Fork Tenmile River and 10 mi (16 km) northeast of Fort Bragg.	32.9	1951-56 1961c 1964-73a 1974	1-16-74	13.56	4,340
EEL RIVER BASIN							
11469600	Hull Creek near Potter Valley	Lat 39°32'39", long 122°55'34", in NW¼SE¼ sec.35, T.20 N., R. 0 W., Mendocino County, Mendocino National Forest, at culvert on Hull Creek Road, 18 mi (29 km) north-east of Potter Valley.	1.49	1970-74	1-16-74	58.26	820
11469650	Corbin Creek near Elk Creek	Lat 39°32'56", long 122°43'28", in NW¼NE¼ sec.35, T.20 N., R.8 W., Glenn County, Mendocino National Forest, at culvert on Elk Creek-Potter Valley Road, 11 mi (18 km) southwest of town of Elk Creek.	6.18	1971-74	3-25-71 2-22-72 1-16-73 1-16-74	55.16 53.39 54.57 55.48	d 400 d 85 d 260 520
11469800	Cold Creek tributary near Elk Creek	Lat 39°26'18", long 122°45'35", Lake County, Mendocino National Forest, at culvert on Pacific Crest Road, 4 mi (6 km) upstream from mouth, and 16.5 mi (26.5 km) south-west of town of Elk Creek.	.81	1969-70a 1971-74	1-16-74	7.82	250
11475500	South Fork Eel River near Branscomb	Lat 39°43'09", long 123°39'06", in NW¼ sec.32, T.22 N., R.16 W., Mendocino County, on right bank 0.4 mi (0.6 km) upstream from Jack of Hearts Creek and 4.7 mi (7.6 km) north of Branscomb.	43.9	1946-70a 1972-74	3-30-74	14.32	15,600
JACOBY CREEK BASIN							
11480000	Jacoby Creek near Freshwater	Lat 40°47'30", long 124°00'10", in NW¼ sec.30, T.5 N., R.2 E., Humboldt County, 3.7 mi (6.0 km) northeast of Freshwater.	6.05	1954-64a 1966-72 1974e	1-16-74	5.80	1,170
KLAMATH RIVER BASIN							
11522300	South Fork Salmon River near Forks of Salmon	Lat 41°13'20", long 123°15'00", in SE¼ sec.30, T.39 N., R.12 W., Siskiyou County, on left bank 100 ft (30 m) downstream from Methodist Creek and 4.5 mi (7.2 km) southeast of town of Forks of Salmon.	252	1958-66a 1967-74	1-16-74	16.40	18,400
11528400	Hayfork Creek near Hayfork	Lat 40°31'10", long 123°05'05", in SW¼ sec.23, T.31 N., R.11 W., Trinity County, 5.8 mi (9.3 km) southwest of Hayfork.	86.7	1956-66a 1967-72 1974	1-16-74	14.59	7,550
SMITH RIVER BASIN							
11532000	South Fork Smith River near Crescent City	Lat 41°47'30", long 124°01'30", in SE¼ sec.11, T.16 N., R.1 E., Del Norte County, 9.5 mi (15.3 km) east of Crescent City.	291	1911-13a 1954-61a 1962-74	11-5-73	27.98	51,100

1. Also a low-flow partial-record station.
- a Operated as a continuous-record gaging station.
- b Water-quality data published in Part 2 of this report.
- c Occasional low-flow measurements.
- d Not previously published.
- e Discontinued.

Measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1974

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS GAGES DURING WATER YEAR 1974						
Stream and/or name and No.	Tributary to	Location	Drainage area (mi ²)	Measured previously (water year)	Measurements	
					Date	Discharge (ft ³ /s)
SANTA ANA RIVER BASIN						
Santa Ana River at Riverside Narrows, nr Arlington (11066500)	Pacific Ocean	Lat 33°57'58", long 117°27'55", in SW¼NE¼SW¼ sec.25, T.2 S., R.6 W., Riverside County, at bridge on Pedley Road, 1.8 mi (2.9 km) from Union Pacific Railroad bridge, 3.3 mi (5.5 km) northwest of Arlington.	855	1927-73a	6-18-74 6-25-74	42.5 56.4
Gun Club diversion	Santa Ana River	Lat 33°57'53", long 117°28'20", in SW¼NE¼SE¼ sec.26, T.2 S., R.6 W., Riverside County, at Gun Club diversion 0.4 mi (0.6 km) downstream from Pedley Road bridge, 3.2 mi (5.1 km) northwest of Arlington.	--	1970	6-18-74 6-25-74	7.51 14.0
Santa Ana River	Pacific Ocean	Lat 33°57'55", long 117°28'23", in SW¼NE¼SE¼ sec.26, T.2 S., R.6 W., Riverside County, 0.5 mi (0.8 km) downstream from Pedley Road bridge, 3.4 mi (5.5 km) northwest of Arlington.	--	1970	6-18-74 6-25-74	36.9 41.6
Santa Ana River	Pacific Ocean	Lat 33°58'25", long 117°30'25", in SE¼NW¼NE¼ sec.28, T.2 S., R.6 W., Riverside County, 3.5 mi (5.6 km) upstream from Hammer Avenue Bridge, 3.8 mi (6.1 km) northeast of Norco.	--	--	6-18-74 6-25-74	35.8 36.8
Jurapa Water Quality Control Plant	Santa Ana River	Lat 33°58'26", long 117°30'27", in SE¼NW¼NE¼ sec.28, T.2 S., R.6 W., Riverside County, 3.4 mi (5.5 km) upstream from Hammer Avenue Bridge, 3.8 mi (6.1 km) northeast of Norco.	--	1970	6-18-74 6-25-74	2.05 1.53
Gun Club return flow	Santa Ana River	Lat 33°58'41", long 117°31'16", in SW¼SW¼SW¼ sec.28, T.2 S., R.6 W., Riverside County, 2.6 mi (4.2 km) upstream from Hammer Avenue Bridge, 2.9 mi (4.7 km) northeast of Norco.	--	1970	6-25-74	1.07
Santa Ana River	Pacific Ocean	Lat 33°57'28", long 117°31'46", in SW¼NW¼SE¼ sec.32, T.2 S., R.6 W., Riverside County, 2.1 mi (3.4 km) upstream from Hammer Avenue Bridge, 2.3 mi (3.7 km) northeast of Norco.	--	--	6-18-74 6-25-74	38.8 36.8
Santa Ana River at Hammer Ave., nr Corona (11067500)	Pacific Ocean	Lat 33°56'43", long 117°33'30", in NE¼NE¼NE¼ sec.1, T.3 S., R.7 W., Riverside County, at Hammer Avenue Bridge, 4.8 mi (7.7 km) north of Corona.	966	1930-59 1970	6-18-74 6-25-74	32.6 33.8
Santa Ana River at Prado Park, nr Corona (11067890)	Pacific Ocean	Lat 33°55'42", long 117°35'44", in Jurapa Grant, Riverside County, in Prado Park 0.4 mi (0.6 km) upstream from Auburndale Bridge and 4.1 mi (6.6 km) northwest of Corona.	1,010	1971-73a	6-18-74 6-25-74	26.3 31.9

See footnotes at end of table.

Measurements at miscellaneous sites--Continued

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1974--Continued

Stream and/or name and No.	Tributary to	Location	Drain-age area (mi ²)	Measured pre-viously (water year)	Measurements	
					Date	Discharge (ft ³ /s)
SAN LORENZO RIVER BASIN						
Kings Creek nr Boulder Creek ^{1/} (11160036)	San Lorenzo River	Lat 37°09'35", long 122°07'32", in SE¼SW¼ sec.7, T.9 S., R.2 W., Santa Cruz County, at upstream side of bridge on Kings Creek Road at Redwood Grove, 0.7 mi (1.1 km) upstream from mouth, and 2.3 mi (3.7 km) north of town of Boulder Creek.	7.56	1973	8-21-74 9-17-74	.47 .42
San Lorenzo River at Boulder Creek ^{1/} (11160045)	Pacific Ocean	Lat 37°08'31", long 122°07'53", in NW¼NW¼ sec.19, T.9 S., R.2 W., Santa Cruz County, at upstream side of Brimblecom Road Bridge, 100 ft (30 m) downstream from Two Bar Creek, and 1.3 mi (2.1 km) northwest of Boulder Creek.	22.9	1973	8-23-74 9-17-74	2.5 2.1
Bear Creek nr Boulder Creek ^{1/} (11160055)	San Lorenzo River	Lat 37°09'54", long 122°04'25", in SW¼NW¼ sec.10, T.9 S., R.2 W., Santa Cruz County, at downstream side of bridge on Bear Creek Road, 3.8 mi (6.1 km) northeast of town of Boulder Creek, and 4.4 mi (7.1 km) upstream from mouth.	10.4	--	8-21-74 9-17-74	1.6 .98
Bear Creek at Boulder Creek ^{1/} (11160060)	San Lorenzo River	Lat 37°07'40", long 122°07'14", in NW¼NE¼ sec.30, T.9 S., R.2 W., Santa Cruz County, at upstream side of bridge, in town of Boulder Creek, 200 ft (61 m) upstream from mouth.	16.2	--	8-21-74 9-18-74	2.8 1.5
Boulder Creek ab Jamison Creek, nr Boulder Creek ^{1/} (11160065)	San Lorenzo River	Lat 37°08'56", long 122°09'22", in NE¼SE¼ sec.14, T.9 S., R.3 W., Santa Cruz County, at upstream side of bridge on State Highway 236, 0.2 mi (0.3 km) upstream from Jamison Creek, 0.8 mi (1.3 km) north of Forest Springs, 2.6 mi (4.2 km) northwest of town of Boulder Creek, and 2.9 mi (4.7 km) upstream from mouth.	6.03	--	8-22-74 9-18-74	.19 .18
Boulder Creek at Boulder Creek ^{1/} (11160070)	San Lorenzo River	Lat 37°07'36", long 122°07'18", in NW¼NE¼ sec.30, T.9 S., R.2 W., Santa Cruz County, at upstream side of bridge on State Highway 9, in town of Boulder Creek, and 0.1 mi (0.2 km) upstream from mouth.	11.3	--	8-22-74 9-18-74	2.3 2.0
Love Creek at Ben Lomond ^{1/} (11160150)	San Lorenzo River	Lat 37°05'20", long 122°05'13", in NE¼SW¼ sec.4, T.10 S., R.2 W., Santa Cruz County, at upstream side of bridge on Glen Arbor Road in Ben Lomond, 400 ft (122 m) upstream from mouth.	3.04	--	8-23-74 9-19-74	.76 .60
Newell Creek at Ben Lomond ^{1/} (11160200)	San Lorenzo River	Lat 37°05'42", long 122°04'23", in SW¼NW¼ sec.3, T.10 S., R.2 W., Santa Cruz County, 1.1 mi (1.8 km) upstream from mouth and 1 mi (2 km) northeast of Ben Lomond.	8.98	1958-61a	8-22-74 9-18-74	.56 .76

See footnotes at end of table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Measurements at miscellaneous sites--Continued

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1974--Continued

Stream and/or name and No.	Tributary to	Location	Drainage area (mi ²)	Measured previously (water year)	Measurements	
					Date	Discharge (ft ³ /s)
SAN LORENZO RIVER BASIN--Continued						
Fall Creek nr Bennett Creek, at Felton ^{1/} (11160230)	San Lorenzo River	Lat 37°03'11", long 122°04'45", in NE¼NE¼ sec.21, T.10 S., R.2 W., Santa Cruz County, just upstream from Citizens Utilities diversion, 200 ft (61 m) upstream from bridge, 0.3 mi (0.5 km) downstream from Bennett Creek, 0.4 mi (0.6 km) northwest of Felton, and 0.5 mi (0.8 km) upstream from mouth.	4.33	--	9-19-74	3.2
Fall Creek at Felton ^{1/} (11160250)	San Lorenzo River	Lat 37°03'33", long 122°04'42", in Zayante Grant, Santa Cruz County, at upstream side of bridge on State Highway 9, 350 ft (107 m) upstream from mouth, and 0.7 mi (1.1 km) northwest of Felton.	4.94	--	8-23-74 9-19-74	3.1 3.3
Zayante Creek bl Mountain Charlie Gulch, nr Zayante ^{1/} (11160280)	San Lorenzo River	Lat 37°06'22", long 122°01'17", in SE¼NE¼ sec.36, T.9 S., R.2 W., Santa Cruz County, just downstream from Mountain Charlie Gulch, 1.5 mi (2.4 km) northeast of town of Zayante, and 5.6 mi (9.0 km) upstream from mouth.	9.27	1973	11-7-73 12-11-73 1-23-74 2-20-74 3-20-74 4-25-74 5-23-74 7-30-74	2.4 7.7 21 6.4 13 12 4.6 1.7
Lompico Creek at Zayante ^{1/} (11160320)	Zayante Creek	Lat 37°04'59", long 122°03'01", in NE¼NW¼ sec.11, T.10 S., R.2 W., Santa Cruz County, at upstream side of bridge, 450 ft (137 m) upstream from mouth, and 0.6 mi (1.0 km) southwest of town of Zayante.	2.78	1973	11-7-73 12-11-73 1-24-74 2-20-74 3-20-74 4-25-74 5-23-74 7-30-74	1.0 3.0 3.8 1.8 2.6 2.5 1.3 .54
Bean Creek nr Felton ^{1/} (11160430)	Zayante Creek	Lat 37°03'14", long 122°02'53", in SE¼ sec.14, T.10 S., R.2 W., Santa Cruz County, 0.8 mi (1.3 km) upstream from mouth and 1.4 mi (2.3 km) east of Felton.	9.18	1973	11-8-73 12-12-73 1-23-74 2-21-74 3-21-74 4-24-74 5-23-74 7-31-74	4.4 7.6 26 7.3 12 14 5.9 4.3
Zayante Creek at Felton ^{1/} (11160450)	San Lorenzo River	Lat 37°02'54", long 122°03'55", in Zayante Grant, Santa Cruz County, 600 ft (183 m) upstream from mouth and 0.4 mi (0.6 km) southwest of Felton.	26.4	1973	11-6-73 12-11-73 1-24-74 2-20-74 3-21-74 4-25-74 5-23-74 7-31-74 8-26-74 9-19-74	42 27 60 24 35 32 17 8.6 6.1 6.5
Carbonera Creek at Santa Cruz ^{1/} (11161400)	Branciforte Creek	Lat 36°59'12", long 122°00'48", in NW¼SW¼ sec.7, T.11 S., R.1 W., Santa Cruz County, at downstream side of bridge, in Santa Cruz, 250 ft (76 m) upstream from mouth.	7.42	--	8-26-74 9-20-74	.70 1.0
Branciforte Creek at Santa Cruz ^{1/} (11161500)	San Lorenzo River	Lat 36°59'10", long 122°00'48", in NE¼SW¼ sec.7, T.11 S., R.1 W., Santa Cruz County, in Santa Cruz, 15 ft (5 m) downstream from Market Street bridge, and 1.0 mi (1.6 km) upstream from mouth.	17.3	1940-43a 1952-68a	8-26-74 9-20-74	2.3 1.8

See footnotes at end of table.

Measurements at miscellaneous sites--Continued

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1974--Continued

Stream and/or name and No.	Tributary to	Location	Drainage area (mi ²)	Measured previously (water year)	Measurements	
					Date	Discharge (ft ³ /s)
CALABAZAS CREEK BASIN						
Calabazas Creek at Mt Eden Rd., nr Saratoga ^{1/} (11169579)	San Francisco Bay	Lat 37°16'03", long 122°03'31", in SE¼NE¼ sec.3, T.8 S., R.2 W., Santa Clara County, at culvert on Mt. Eden Road, 100 ft (30 m) upstream from small left-bank tributary, and 1.7 mi (2.7 km) northwest of Saratoga Post Office.	0.49	1973	11-16-73 1-16-74 1-16-74 1-18-74	0.41 .89 .80 1.0
Calabazas Creek trib. No. 3 at Mt Eden Rd., nr Saratoga ^{1/} (11169586)	Calabazas Creek	Lat 37°15'54", long 122°03'19", in NW¼SW¼ sec.2, T.8 S., R.2 W., Santa Clara County, at culvert on Mt. Eden Road, 200 ft (61 m) upstream from mouth, and 1.4 mi (2.3 km) northwest of Saratoga Post Office.	.11	1973	11-16-73 1-16-74 1-16-74 1-18-74	.19 .38 .50 .45
Calabazas Creek trib. No. 4 at Mt Eden Rd., nr Saratoga ^{1/} (11169588)	Calabazas Creek	Lat 37°15'54", long 122°03'18", in NW¼SW¼ sec.2, T.8 S., R.2 W., Santa Clara County, at culvert on Mt. Eden Road, 400 ft (122 m) upstream from mouth, and 1.4 mi (2.3 km) northwest of Saratoga Post Office.	.26	1973	11-16-73 1-16-74 1-16-74 1-18-74	.50 .86 2.4 1.0
SAN RAFAEL CREEK BASIN						
San Rafael Creek at Sirard Lane, at San Rafael ^{1/} (11459790)	San Francisco Bay	Lat 37°59'04", long 122°32'58", in San Pedro Santa Margarita Las Gallinas Grant, Marin County, on upstream wingwall of culvert on Sirard Lane in San Rafael.	.19	1972-73	11-12-73 11-30-73 12-18-73 1-16-74 4-1-74	1.4 .78 .08 11 4.4
Irwin Creek trib. at San Rafael ^{1/} (11459810)	San Rafael Creek	Lat 37°59'28", long 122°30'29", in San Pedro Santa Margarita Las Gallinas Grant, Marin County, at end of Cascade Lane in Black Canyon in San Rafael.	.11	1972-73	12-18-73 1-16-74 4-1-74	.04 1.1 1.2
Irwin Creek trib. No. 2 at San Rafael ^{1/} (11459820)	Irwin Creek	Lat 37°58'56", long 122°30'24", in San Pedro Santa Margarita Las Gallinas Grant, Marin County, at upstream side of culvert on Deer Park Road at San Rafael.	.18	1972-73	11-12-73 12-18-73 1-16-74 4-1-74	1.3 .37 4.2 3.1
KLAMATH RIVER BASIN						
Fall Creek at Copco (11512000)	Klamath River	NE¼ sec.36, T.48 N., R.5 W., Siskiyou County, 1,500 ft (457 m) upstream from mouth and 0.8 mi (1.3 km) south of Fall Creek powerplant and Copco Post Office.	14.6	1928-59a 1964-73	9-2-74	b 30.9
Bogus Creek	Klamath River	NE¼ sec.17, T.47 N., R.3 W., Siskiyou County, 0.5 mi (0.8 km) downstream from Iron Gate Dam and 6.0 mi (9.7 km) northeast of Hornbrook.	--	1965-73	9-2-74	b 13.6
Beaver Creek nr Klamath River (11517800)	Klamath River	NE¼SW¼ sec.30, T.47 N., R.8 W., Siskiyou County, 1.9 mi (3.1 km) upstream from mouth and 14.8 mi (23.8 km) northwest of Yreka.	106	1953-58 1959-65a 1967-73	9-5-74	b 42.8
South Fork Scott River nr Callahan (11518200)	Scott River	SW¼SE¼ sec.20, T.40 N., R.8 W., Siskiyou County, opposite unnamed tributary 1.1 mi (1.8 km) southwest of Callahan and 1.5 mi (2.4 km) upstream from East Fork Scott River.	42.5	1958-60a 1964 1966-73	9-4-74	b 14.9

See footnotes at end of table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Measurements at miscellaneous sites--Continued

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1974--Continued

Stream and/or name and No.	Tributary to	Location	Drainage area (mi ²)	Measured previously (water year)	Measurements	
					Date	Discharge (ft ³ /s)
KLAMATH RIVER BASIN--Continued						
Elk Creek nr Happy Camp (11522200)	Klamath River	NE¼ sec.36, T.16 N., R.7 E., Siskiyou County, 4.0 mi (6.4 km) upstream from mouth and 4.0 mi (6.4 km) south of Happy Camp.	90.4	1956-64a 1967-73	9-5-74	b 41.7
Thompson Creek	Klamath River	SE¼ sec.17, T.17 N., R.8 E., Siskiyou County, 50 ft (15 m) upstream from highway bridge, 0.1 mi (0.2 km) upstream from mouth, and 6.0 mi (9.7 km) northeast of Happy Camp.	--	1968-73	9-5-74	b 16.5
Coffee Creek nr Trinity Center (11523700)	Trinity River	NW¼SW¼ sec.2, T.37 N., R.8 W., Trinity County, 0.8 mi (1.3 km) upstream from Little Boulder Creek, 3.2 mi (5.1 km) upstream from mouth, and 8 mi (13 km) northwest of new location of Trinity Center.	107	1957-66a 1968-73	9-23-74	b 49.2
Deadwood Creek	Trinity River	SW¼NW¼ sec.17, T.33 N., R.8 W., Trinity County, 300 ft (91 m) upstream from mouth and 0.7 mi (1.7 km) northeast of Lewiston.	--	1965-73	12-3-73 1-2-74 9-23-74	16.1 20.7 b 1.25
Weaver Creek nr Douglas City (11525800)	Trinity River	NE¼SE¼ sec.36, T.33 N., R.10 W., Trinity County, 0.2 mi (0.3 km) downstream from highway bridge and 1.3 mi (2.1 km) north of Douglas City.	48.4	1959-69a 1970-71	9-13-73c	b .70
Browns Creek nr Douglas City (11525900)	Trinity River	NE¼SE¼ sec.10, T.32 N., R.10 W., Trinity County, 2 mi (3.2 km) upstream from mouth and 2.1 mi (3.4 km) west of Douglas City.	71.6	1957-67a 1968 1970-71	9-13-73c	b 5.4

1. Water-quality data published in Part 2 this report.

a Operated as a continuous-record gaging station.

b Base flow.

c Not previously published.

Measurements at miscellaneous sites--Continued

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1974--Continued

Stream and/or name and No.	Tributary to	Location	Drainage area (mi ²)	Measured previously (water year)	Measurements	
					Date	Discharge (ft ³ /s)
CALABAZAS CREEK BASIN						
Calabazas Creek at Mt Eden Rd., nr Saratoga ^{1/} (11169579)	San Francisco Bay	Lat 37°16'03", long 122°03'31", in SE½NE½ sec.3, T.8 S., R.2 W., Santa Clara County, at culvert on Mt. Eden Road, 100 ft (30 m) upstream from small left-bank tributary, and 1.7 mi (2.7 km) northwest of Saratoga Post Office.	0.49	1973	11-16-73 1-16-74 1-16-74 1-18-74	0.41 .89 .80 1.0
Calabazas Creek trib. No. 3 at Mt Eden Rd., nr Saratoga ^{1/} (11169586)	Calabazas Creek	Lat 37°15'54", long 122°03'19", in NW½SW½ sec.2, T.8 S., R.2 W., Santa Clara County, at culvert on Mt. Eden Road, 200 ft (61 m) upstream from mouth, and 1.4 mi (2.3 km) northwest of Saratoga Post Office.	.11	1973	11-16-73 1-16-74 1-16-74 1-18-74	.19 .38 .50 .45
Calabazas Creek trib. No. 4 at Mt Eden Rd., nr Saratoga ^{1/} (11169588)	Calabazas Creek	Lat 37°15'54", long 122°03'18", in NW½SW½ sec.2, T.8 S., R.2 W., Santa Clara County, at culvert on Mt. Eden Road, 400 ft (122 m) upstream from mouth, and 1.4 mi (2.3 km) northwest of Saratoga Post Office.	.26	1973	11-16-73 1-16-74 1-16-74 1-18-74	.50 .86 2.4 1.0
SAN RAFAEL CREEK BASIN						
San Rafael Creek at Sirard Lane, nr at San Rafael ^{1/} (11459790)	San Francisco Bay	Lat 37°59'04", long 122°32'58", in San Pedro Santa Margarita Las Gallinas Grant, Marin County, on upstream wingwall of culvert on Sirard Lane in San Rafael.	.19	1972-73	11-12-73 11-30-73 12-18-73 1-16-74 4-1-74	1.4 .78 .08 11 4.4
Irwin Creek trib. at San Rafael ^{1/} (11459810)	San Rafael Creek	Lat 37°59'28", long 122°30'29", in San Pedro Santa Margarita Las Gallinas Grant, Marin County, at end of Cascade Lane in Black Canyon in San Rafael.	.11	1972-73	12-18-73 1-16-74 4-1-74	.04 1.1 1.2
Irwin Creek trib. No. 2 at San Rafael ^{1/} (11459820)	Irwin Creek	Lat 37°58'56", long 122°30'24", in San Pedro Santa Margarita Las Gallinas Grant, Marin County, at upstream side of culvert on Deer Park Road at San Rafael.	.18	1972-73	11-12-73 12-18-73 1-16-74 4-1-74	1.3 .37 4.2 3.1
KLAMATH RIVER BASIN						
Fall Creek at Copco (11512000)	Klamath River	NE½ sec.36, T.48 N., R.5 W., Siskiyou County, 1,500 ft (457 m) upstream from mouth and 0.8 mi (1.3 km) south of Fall Creek powerplant and Copco Post Office.	14.6	1928-59a 1964-73	9-2-74	b 30.9
Bogus Creek	Klamath River	NE½ sec.17, T.47 N., R.3 W., Siskiyou County, 0.5 mi (0.8 km) downstream from Iron Gate Dam and 6.0 mi (9.7 km) northeast of Hornbrook.	--	1965-73	9-2-74	b 13.6
Beaver Creek nr Klamath River (11517800)	Klamath River	NE½SW½ sec.30, T.47 N., R.8 W., Siskiyou County, 1.9 mi (3.1 km) upstream from mouth and 14.8 mi (23.8 km) northwest of Yreka.	106	1953-58 1959-65a 1967-73	9-5-74	b 42.8
South Fork Scott River nr Callahan (11518200)	Scott River	SW½SE½ sec.20, T.40 N., R.8 W., Siskiyou County, opposite unnamed tributary 1.1 mi (1.8 km) southwest of Callahan and 1.5 mi (2.4 km) upstream from East Fork Scott River.	42.5	1958-60a 1964 1966-73	9-4-74	b 14.9

See footnotes at end of table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Measurements at miscellaneous sites--Continued

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1974--Continued

Stream and/or name and No.	Tributary to	Location	Drainage area (mi ²)	Measured previously (water year)	Measurements	
					Date	Discharge (ft ³ /s)
KLAMATH RIVER BASIN--Continued						
Elk Creek nr Happy Camp (11522200)	Klamath River	NE¼ sec.36, T.16 N., R.7 E., Siskiyou County, 4.0 mi (6.4 km) upstream from mouth and 4.0 mi (6.4 km) south of Happy Camp.	90.4	1956-64a 1967-73	9-5-74	b 41.7
Thompson Creek	Klamath River	SE¼ sec.17, T.17 N., R.8 E., Siskiyou County, 50 ft (15 m) upstream from highway bridge, 0.1 mi (0.2 km) upstream from mouth, and 6.0 mi (9.7 km) northeast of Happy Camp.	--	1968-73	9-5-74	b 16.5
Coffee Creek nr Trinity Center (11523700)	Trinity River	NW¼SW¼ sec.2, T.37 N., R.8 W., Trinity County, 0.8 mi (1.3 km) upstream from Little Boulder Creek, 3.2 mi (5.1 km) upstream from mouth, and 8 mi (13 km) northwest of new location of Trinity Center.	107	1957-66a 1968-73	9-23-74	b 49.2
Deadwood Creek	Trinity River	SW¼NW¼ sec.17, T.33 N., R.8 W., Trinity County, 300 ft (91 m) upstream from mouth and 0.7 mi (1.7 km) northeast of Lewiston.	--	1965-73	12-3-73 1-2-74 9-23-74	16.1 20.7 b 1.25
Weaver Creek nr Douglas City (11525800)	Trinity River	NE¼SE¼ sec.36, T.33 N., R.10 W., Trinity County, 0.2 mi (0.3 km) downstream from highway bridge and 1.3 mi (2.1 km) north of Douglas City.	48.4	1959-69a 1970-71	9-13-73c	b .70
Browns Creek nr Douglas City (11525900)	Trinity River	NE¼SE¼ sec.10, T.32 N., R.10 W., Trinity County, 2 mi (3.2 km) upstream from mouth and 2.1 mi (3.4 km) west of Douglas City.	71.6	1957-67a 1968 1970-71	9-13-73c	b 5.4

1. Water-quality data published in Part 2 this report.

a Operated as a continuous-record gaging station.

b Base flow.

c Not previously published.

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