Water Resources Data California Water Year 1985

Volume 2. Pacific Slope Basins from Arroyo Grande to Oregon State Line except Central Valley

U.S. GEOLOGICAL SURVEY WATER DATA REPORT CA-85-2
Prepared in cooperation with the California Department of Water Resources and with other agencies

CALENDAR FOR WATER YEAR 1985

1984

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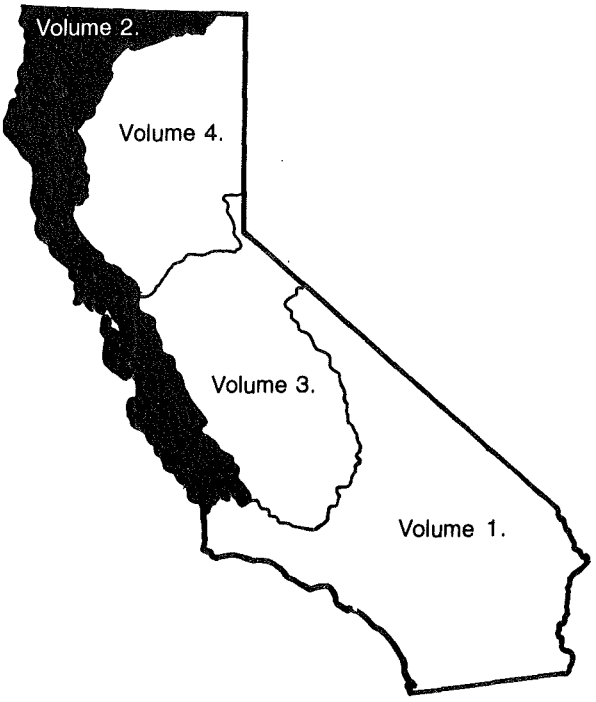
Water Resources Data California Water Year 1985

Volume 2. Pacific Slope Basins from Arroyo Grande to Oregon State Line except Central Valley

by S. Anderson, K.L. Markham, W.F. Shelton, L.F. Trujillo, and D.A.



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CA-85-2
Prepared in cooperation with the California Department of Water Resources and with other agencies

DEPARTMENT OF THE INTERIOR

DONALD PAUL HODEL, Secretary

U.S. GEOLOGICAL SURVEY

Dallas L. Peck, Director

For information on the water program in California write to
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2800 Cottage Way
Sacramento, California 95825

1987

PREFACE

This volume of the annual hydrologic data report of California is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources. Hydrologic data for California are contained in five volumes:

Volume 1. Southern Great Basin from Mexican Border to Mono Lake Basin, and Pacific Slope Basins from Tijuana River to Santa Maria River

Volume 2. Pacific Slope Basins from Arroyo Grande to Oregon State Line except Central Valley

Volume 3. Southern Central Valley Basins and The Great Basin from Walker River to Truckee River

Volume 4. Northern Central Valley Basins and The Great Basin from Honey Lake Basin to Oregon State Line

Volume 5. Ground-water data for California

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, the individuals contributing significantly to the collection, processing, and tabulation of the data are given on page V.

This report was prepared in cooperation with the California Department of Water Resources and with other agencies under the general supervision of Gilbert L. Bertoldi and John M. Klein, successive District Chiefs, California.

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15. Supplementary Notes
Prepared in cooperation with the California Department of Water Resources and with other agencies.

16. Abstract (Limit: 200 words)

Water resources data for the 1985 water year for California consists of records o stage, discharge, and water quality of streams; and stage and contents in lakes an reservoirs; and water levels and water quality in wells. Volume 2 contains discharg records for 133 gaging stations; stage and contents for 9 lakes and reservoirs; and wate quality for 34 stations. Also included are 3 low-flow partial-record stations and 1 water-quality partial-record stations. These data represent that part of the Nationa Water Data System operated by the U.S. Geological Survey and cooperating State and Federa agencies in California.

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SURFACE-WATER AND WATER-QUALITY STATIONS
IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

[Letters after station name designate type of data:
(d), discharge; (l), lake contents; (c), chemical; (b), biological;
(p), precipitation; (t), water temperature; and (s), sediment]

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WATER RESOURCES DATA - CALIFORNIA, 1985

Volume 2

INTRODUCTION

The Water Resources Division of the U.S. Geological Survey, in cooperation with State agencies, obtains a large amount of data pertaining to the water resources of California each water year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the Geological Survey, the data are published annually in this report series entitled "Water Resources Data - California."

This report includes records on surface water in the State. Specifically, it contains: (1) Discharge records for 133 streamflow-gaging stations, for 9 miscellaneous streamflow stations, and for 3 low-flow partial-record streamflow stations; (2) stage and content records for 9 lakes and reservoirs; and (3) water-quality records for 34 streamflow-gaging stations, and 18 water-quality partial-record stations. Records included for stream stages are only a small fraction of those obtained during the water year.

This series of annual reports for California began with the 1961 water year with a report that contained only data relating to the quantities of surface water. For the 1964 water year, a similar report was introduced that contained only data relating to water quality. Beginning with the 1975 water year, the report format changed to one volume, including data on quantities of surface water, quality of surface and ground water, and ground-water levels. Beginning with the 1985 water year, a separate volume for ground-water levels and quality was published for California.

Prior to introduction of this series and for several water years concurrent with it, water-resources data for California were published in U.S. Geological Survey Water-Supply Papers. Data on stream discharge and stage and on lake or reservoir contents and stage, through September 1960, were published annually under the title "Surface-Water Supply of the United States, Parts 10 and 11." For the 1961 through 1970 water years, the data were published in two 5-year reports. Data on chemical quality, temperature, and suspended sediment for the 1941 through 1970 water years were published annually under the title "Quality of Surface Waters of the United States," and water levels for the 1935 through 1974 water years were published under the title "Ground-Water Levels in the United States." The above-mentioned Water-Supply papers may be consulted in the libraries of the principal cities of the United States and may be purchased from U.S. Geological Survey, Books and Open-File Reports, Federal Center, Bldg. 41, Box 25425, Denver, CO 80225.

Publications similar to this report are published annually by the Geological Survey for all States. These official Survey reports have an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report CA-85-2." For archiving and general distribution, the reports for 1971-74 water years also are identified as water-data reports. These water-data reports are for sale in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the District Chief at the address given on back of title page or by telephone (916) 978-4668.

COOPERATION

The U.S. Geological Survey and organizations of the State of California have had cooperative agreements for the systematic collection of 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:

Alameda County Flood Control and Water Conservation District, Shinji Momono, Acting Engineer-Manager.
Alameda County Flood Control and Water Conservation District, Zone 7, Mun J. Mar, General Manager.
Alameda County Water District, Roy E. Cloverdale, General Manager.
California Department of Water Resources, David N. Kennedy, Director.
Contra Costa County Flood Control and Water Conservation District, Milton Kubicek, Deputy Director.
Humboldt Bay Municipal Water District, Arthur Bolli, General Manager.
Marin County Department of Public Works, Thomas F. Campanella, Director.
Marin Municipal Water District, Richard W. Rogers, General Manager.
Monterey County Flood Control and Water Conservation District, William Hurst, General Manager-Acting District Engineer.
San Benito County Water Conservation and Flood Control District, Charles Overfelt, President-District Secretary.
San Francisco Water Department, Eugene Kelleher, General Manager.
San Luis Obispo County Engineering Department, George Protopapas, County Engineer.
San Mateo County, Edward Barnes, Senior Civil Engineer.
Santa Clara Valley Water District, John T. O'Halloran, General Manager.
Santa Cruz County Flood Control and Water Conservation District, Kris Schenk, Director.
Scotts Valley Water District, John McGuire, General Manager.
Sonoma County Planning Department, John Dugan, Director.
Sonoma County Water Agency, Robert F. Beach, General Manager.

Assistance in the form of funds or services was given by the Corps of Engineers, U.S. Army; Bureau of Indian Affairs and National Park Service, U.S. Department of the Interior.

The following organizations aided in collecting records: Pacific Gas and Electric Company; Pacific Power and Light Company.

SUMMARY OF HYDROLOGIC CONDITIONS

Surface Water

Runoff during the 1985 water year in the area covered by this volume was below normal and averaged 57 percent of the 1951-80 median (based on 10 representative streamflow records). Total runoff, in percent of median, at selected sites in California is shown in figure 1. Measured runoff was 74 percent of the annual median at Smith River near Crescent City and 44 percent at Saratoga Creek at Saratoga. Figure 2 shows the variation in runoff during the 1985 water year and compares the 1985 monthly and annual mean flow with median flow for representative streams in north coastal California. No discharges during the 1985 water year exceeded existing peaks of record in the area covered by this volume.

Precipitation averaged 77 percent of normal for the 1985 water year. Divisional data (data from similar meteorological areas) indicate that precipitation was 95 percent of normal at Eureka, 54 percent at Covelo, and 59 percent at Pismo Beach.

Because of the prolonged dry spe'l which kept Russian River flows lower than normal, sewage storage at the Santa Rosa regional plant reached capacity. An accidental spill of approximately 2 million gallons of untreated sewage reached the river on February 8.

Water Quality

Water samples collected at seven NASQAN stations and one Hydrologic Benchmark station reported in this volume were analyzed for water-quality constituents. Dissolved-solids concentrations generally increased slightly from the previous year and were largest at Pajaro River near Chittenden, where the median concentration was 812 mg/L. The smallest concentration was in water sampled at Smith River near Crescent City, where the median concentration was 62 mg/L. Concentrations of water-quality constituents sampled were less than maximum levels recommended by the U.S. Environmental Protection Agency.

The largest concentration of fecal-coliform bacteria was measured in water sampled from the Pajaro River near Chittenden and ranged from 320 to >1,500 col/100 mL (a decrease from a maximum of K7,800 col/100 mL reported in 1984).

K Results based on colony count outside the acceptable range (non-ideal colony count).

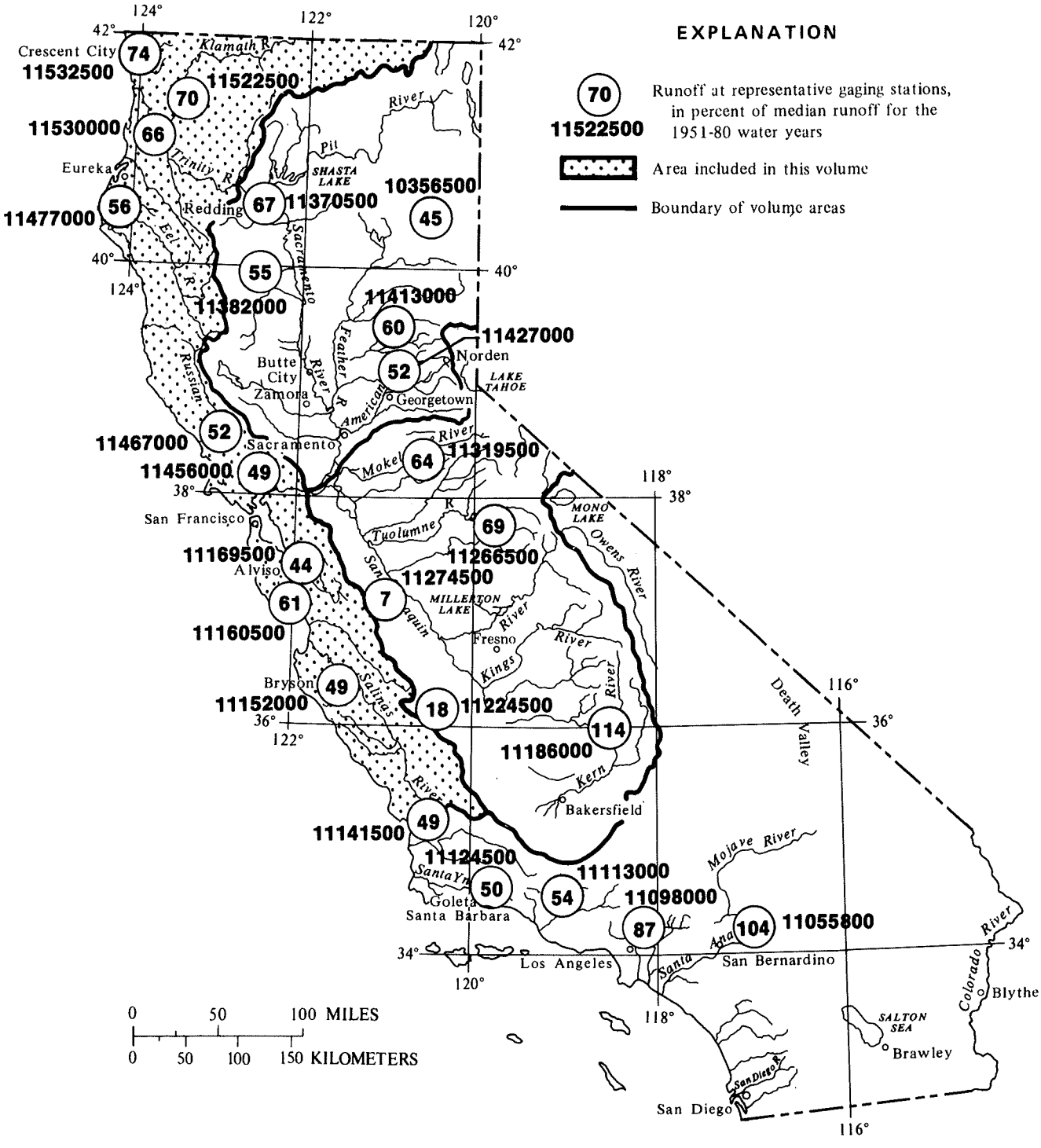


FIGURE 1. — Runoff for the 1985 water year.

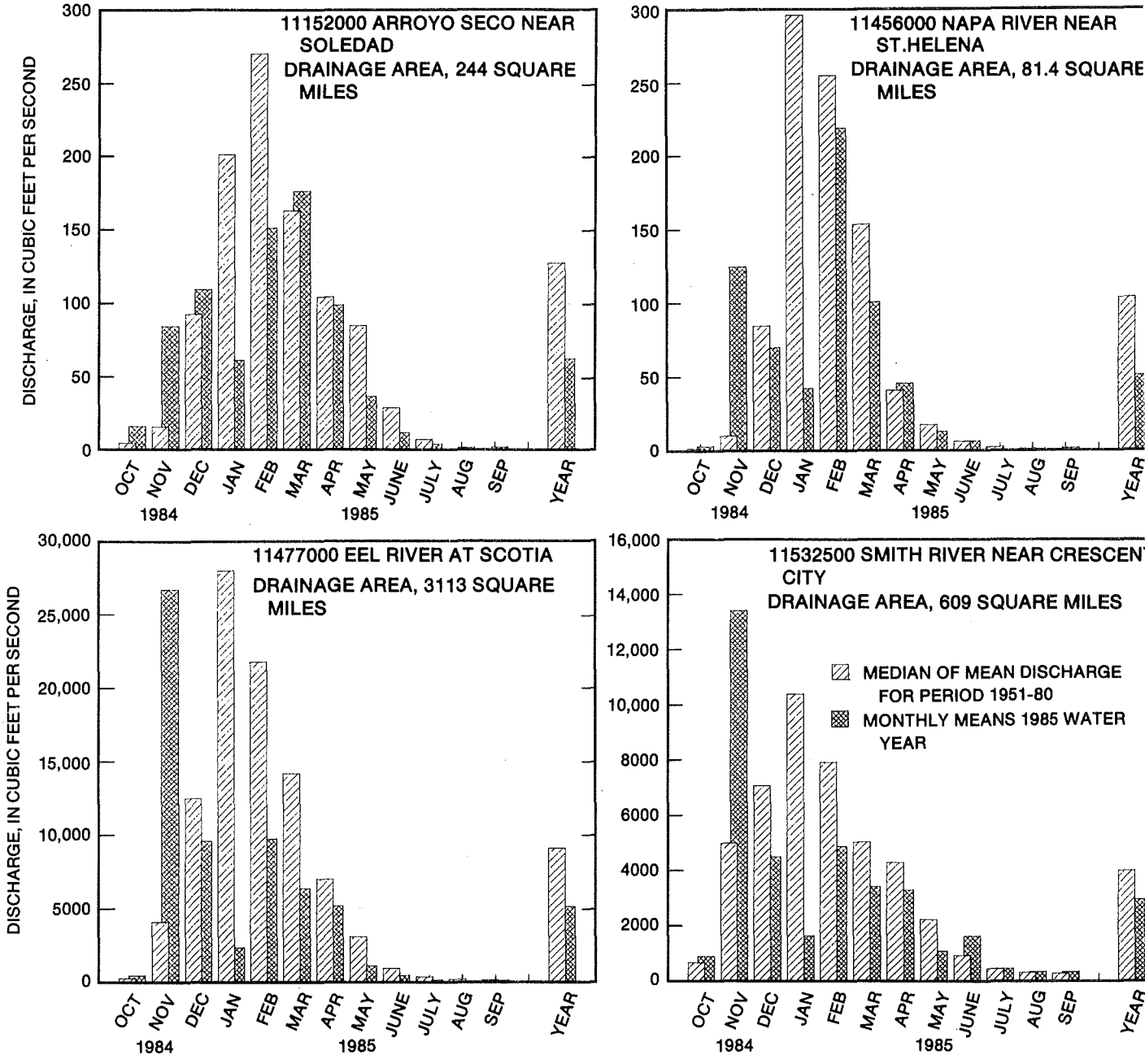


FIGURE 2. — Comparison of discharge during water year 1985 with long term median discharge at four representative gaging stations.

SUMMARY OF HYDROLOGIC CONDITIONS

Sediment

Suspended-sediment discharge and concentration were monitored daily at 12 stations and periodically at 22 stations in the area included in this volume. Monthly and annual bedload discharge were estimated for 10 of the daily stations. These stations are located as far north as Crescent City and as far south as Bryson. The large variation in precipitation and drainage-basin characteristics results in significant differences in sediment-discharge rates and concentrations.

Sediment discharge was significantly less than normal during the 1985 water year, with the majority of sediment transported during storms in the months of November, February, and March. Mean annual sediment discharge was 22 percent of average for Redwood Creek at Orick (1971-84), 15 percent for Russian River near Guerneville (1970-84), and 10 percent for Cull Creek near Castro Valley (1979-84).

During the 1985 water year, sediment discharge for the 12 daily stations ranged from 1.1 ton/yr for West Fork Permanente Creek near Monta Vista (2.98 mi^2 drainage area) to 209,000 ton/yr for Russian River near Guerneville (1,338 mi^2 drainage area). Annual sediment discharge per square mile of drainage area ranged from a minimum of 0.38 ton/mi^2 for West Fork Permanente Creek to a maximum of 1,200 ton/mi^2 for Redwood Creek near Blue Lake.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Bench-Mark Network is a network of 57 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by the activities of man.

National Stream Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in natural or regional water-quality planning and management. The 500 or so sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis and reporting such that the data may be used for, (2) description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs, (3) detection of changes or trends with time in the pattern of occurrence of water-quality characteristics, and (4) providing a nationally consistent data base useful for water-quality assessment and hydrologic research.

EXPLANATION OF THE RECORDS

The surface-water records published in this report are for the 1985 water that began October 1, 1984, and ended September 30, 1985. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and content data for lakes and reservoirs, and water-quality data for surface water. The locations of the stations where the data were collected are shown in figures 4 through 15. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each data station, whether streamsite or well, in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic location. The "downstream order" system is used for regular surface-water stations and the "latitude-longitude" system is used for surface-water stations in California where only miscellaneous measurements are made.

Downstream Order System

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a mainstream station are listed before that station. A station on a tributary that enters between two mainstream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary with respect to the stream to which it is immediately tributary is indicated by an indentation in the "List of Stations" in the front of this report. Each indentation represents one rank. This downstream order and system of indentation show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

The station-identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete eight-digit number for each station such as 11465350, which appears just to the left of the station name, includes the two-digit part number "11" plus the six-digit downstream-order number "465350." The Part number designates the major river basin; for example, part "11" is in the Pacific Slope Basins in California.

Latitude-Longitude System

The identification numbers for miscellaneous surface-water sites are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid. This site-identification number, once assigned, is a pure number, and has no locational significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description. (See figure below).

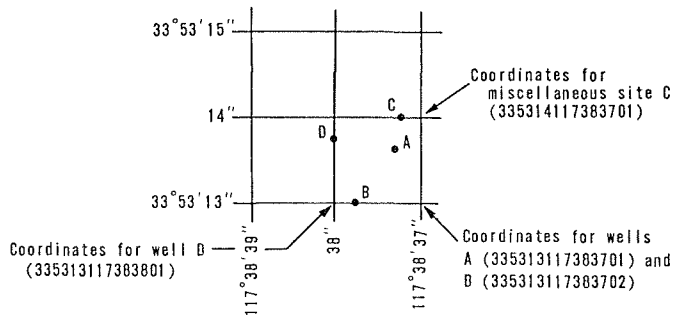


Figure 3.--System for numbering wells and miscellaneous sites (latitude and longitude).

Records of Stage and Water Discharge

Records of stage and water discharge may be complete or partial. Complete records of discharge are those obtained using a continuous stage-recording device through which either instantaneous or mean daily discharges may be computed for any time, or any period of time, during the period of record. Complete records of lake and reservoir content, similarly, are those for which stage or content may be computed or estimated with reasonable accuracy for any time, or period of time. They may be obtained using a continuous stage-recording device, but need not be. Because daily mean discharges and end-of-day contents commonly are published for such stations, they are referred to as "daily stations."

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles such as "Crest-stage partial records," or "Low-flow partial records." Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered as partial records, but they are presented separately in this report. Location of all complete-record and crest-stage partial-record stations for which data are given in this report are shown, by county, in figures 4 through 15.

Data Collection and Computation

The data obtained at a complete-record gaging station on a stream or canal consist of a continuous record of stage, individual measurements of discharge throughout a range of stages, and notations regarding factors that may affect the relationships between stage and discharge. These data, together with supplemental information, such as weather records, are used to compute daily discharges. The data obtained at a complete-record gaging station on a lake or reservoir consist of a record of stage and of notations regarding factors that may affect the relationship between stage and lake content. These data are used with stage-area and stage-capacity curves or tables to compute water-surface areas and lake storage.

Continuous records of stage are obtained with analog recorders that trace continuous graphs of stage or with digital recorders that punch stage values on paper tapes at selected time intervals. Measurements of discharge are made with current meters using methods adapted by the Geological Survey as a result of experience accumulated since 1880. These methods are described in standard textbooks, in U.S. Geological Survey Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water-Resources Investigations (TWRI), Book 3, Chapter A6.

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. From these curves, rating tables indicating the approximate discharge for any stage within the range of the measurements are prepared. If it is necessary to define extremes of discharge outside the range of current-meter measurements, the curves are extended using: (1) logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted-opening measurements, and computations of flow-over-dam or weirs; or (4) step-backwater techniques.

Daily mean discharges are computed by applying the daily mean stages (gage heights) to the stage-discharge curves or tables. 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 of the personnel making the measurements are applied to the gage heights before the discharges are determined from the curves or tables. This shifting-control method also is used if the stage-discharge relation is changed temporarily because of aquatic growth or debris on the control. For some stations, formation of ice in the winter may so obscure the stage-discharge relations that daily mean discharges must be estimated from other information such as temperature and precipitation records, notes or observations, and records for other stations in the same or nearby basins for comparable periods.

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

In computing records of lake or reservoir contents, it is necessary to have available from surveys, curves, or tables defining the relationship of stage and content. The application of stage to the stage-content curves or tables gives the contents from which daily, monthly, or yearly changes then are determined. If the stage-content relationship changes because of deposition of sediment in a lake or reservoir, periodic resurveys may be necessary to redefine the relationship. Even when this is done, the contents computed may become increasingly in error as time since the last survey increases. Discharges over lake or reservoir spillways are computed from stage-discharge relationships such as other stream discharges are computed.

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 from the recorded range in stage, previous or following record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents may be estimated from operator's logs, previous or following record, inflow-outflow studies, and other information. Information explaining how estimated daily-discharge values are identified in station records is included in the next two sections, "Data Presentation" (REMARKS paragraph) and "Identifying Estimated Daily Discharge."

Data Presentation

The records published for each gaging station consist of two parts, the manuscript or station description and the data table for the current water year. The manuscript provides, under various headings, descriptive information, such as station location; period of record; average discharge; historical extremes, record accuracy; and other remarks pertinent to station operation and regulation.

The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments to follow clarify information presented under the various headings of the station description.

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gage with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

DRAINAGE AREA.--Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.--This indicates the period for which there are published records for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not, and whose location was such that records from it can reasonably be considered equivalent with records from the present station.

REVISED RECORDS.--Published records, because of new information, occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted 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 most recently revised figure was published is given.

GAGE.--The type of gage in current use, the datum of the current gage referred to National Geodetic Vertical Datum of 1929 (see Definition of Terms), and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.--All periods of estimated daily-discharge record will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily-discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a remarks statement is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, to conditions that affect natural flow at the station, and possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

AVERAGE DISCHARGE.--The discharge value given is the arithmetic mean of the water-year mean discharges. It is computed only for stations having at least 5 water years of complete record, and only water years of complete record are included in the computation. It is not computed for stations where diversions, storage, or other water-use practices cause the value to be meaningless. If water developments significantly altering flow at a station are put into use after the station has been in operation for a period of years, a new average is computed as soon as 5 water years of record have accumulated following the development. The median of yearly mean discharges also is given under this heading for stations having 10 or more water years of record, if the median differs from the average given by more than 10 percent.

EXTREMES FOR PERIOD OF RECORD.--Extremes may include maximum and minimum discharges or content. Unless otherwise qualified, the maximum discharge or content is the instantaneous maximum corresponding to the highest stage that occurred. The highest stage may have been obtained from a graphic or digital recorder, a crest-stage, or by direct observation of a nonrecording gage. If the maximum stage did not occur on the same day as the maximum discharge or content, it is given separately. Similarly, the minimum is the instantaneous minimum discharge, unless otherwise qualified, and was determined and is reported in the same manner as the maximum.

EXTREMES OUTSIDE PERIOD OF RECORD.--Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the Geological Survey.

EXTREMES FOR CURRENT YEAR.--Extremes given here are similar to those for the period of record, except the peak discharge listing may include secondary peaks. For stations meeting certain criteria, all peak discharges and stages occurring during the water year and greater than a selected base discharge are presented under this heading. The peaks greater than the base discharge, excluding the highest one, are referred to as secondary peaks. Peak discharges are not published for canals, ditches, drains, or streams for which the peaks are subject to substantial control by man. The time of occurrence for peaks is expressed in 24-hour local standard time. For example, 12:30 a.m. is 0030, and 1:30 p.m. is 1330. The minimum for the current water year appears below the table of peak data.

REVISIONS.--If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there would be no current or, possible, future station manuscript published to document the revision in a "Revised Records" entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the District office to determine of the published records were ever revised after the station was discontinued. Of course, if the data were obtained by computer retrieval, the data would be current and there would be no need to check because any published revision of data is always accompanied by revision of the corresponding data in computer storage.

Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the "Remarks" and in the inclusion of a skeleton storage-capacity table when daily contents are given.

The daily table for stream-gaging stations gives 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 is usually expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas. In the yearly summary below the monthly summary, the figures shown are the appropriate discharges for the calendar and water years. At some stations monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversions or reservoir contents are given. These figures are identified by a symbol and corresponding footnote.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of annual maximum stage and discharge at crest-stage stations, and the second is a table of discharge measurements at low-flow partial-record stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. 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.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified either by flagging individual daily values with the letter symbol "e" and printing the table footnote, "e Estimated," or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

Accuracy of the Records

The accuracy of streamflow records 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 measurements of stage, measurements of discharge, and interpretation of records.

The accuracy attributed to the records is indicated under "REMARKS." "Excellent" means that about 95 percent of the daily discharges are within 5 percent of the true; "good," within 10 percent; and "fair," within 15 percent. Records that do not meet the criteria mentioned, are rated "poor." Different accuracies may be attributed to different parts of a given record.

Daily mean discharges in this report are given to the nearest hundredth of a cubic foot per second for values less than 1 ft^3/s; to the nearest tenth between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s; and to 3 significant figures for more than 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharges 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, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff, in inches, are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Records Available

The National Water Data Exchange (NAWDEX), U.S. Geological Survey, Reston, VA 22092, maintains an index of sites as well as an index of records of discharge collected by other agencies but not published by the Geological Survey. Information on records at specific sites can be obtained from that office upon request.

Information used in the preparation of the records in this publication, such as discharge measurement notes, gage-height records, temperature measurements, and rating tables are on file in the California District office. Also, most of the daily mean discharges are in computer-readable form and have been analyzed statistically. Information on the availability of the unpublished information or on the results of statistical analyses of the published records may be obtained from the District office.

Records of Surface-Water Quality

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies.

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A continuing-record station is a site where data are collected on a regularly scheduled basis. Frequency may be once or more times daily, weekly, monthly, or quarterly. A partial-record station is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A miscellaneous sampling site is a location other than a continuing or partial-record station, where random samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between "continuing records" as used in this report and "continuous recordings," which refers to a continuous graph or a series of discrete values punched at short intervals on a paper tape. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently. Locations of stations for which records on the quality of surface water appear in this report are shown in figures 4 through 15.

Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites.

On-site Measurements and Sample Collection

In obtaining water-quality data, a major concern needs to be assuring that the data obtained represent the in situ quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, need to be made onsite when the samples are taken. To assure that measurements made in the laboratory also represent the in situ water, carefully prescribed procedures need to be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in publications on "Techniques of Water-resources Investigations," Book 1, Chapter D2; Book 3, Chapter C2; Book 5, Chapter A1, A3, and A4. All of these references are listed on p. 22 of this report. Also, detailed information on collecting, treating, and shipping samples may be obtained from the Geological Survey District office.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load. All samples obtained for the National Stream Quality Accounting Network (see definitions) are obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several verticals, depends on flow conditions and other factors which must be evaluated by the collector.

Chemical-quality data published in this report are considered to be the most representative value available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum and minimum, and values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the USGS District Office whose address is given on the back of the title page of this report.

Water temperature

Water temperatures are measured at the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are on file in the District office.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily discharges of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of suspended-sediment discharge, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included for some stations.

Cross-Sectional Data

Cross-section surveys of water temperature, pH, specific conductance, dissolved oxygen, and suspended sediment are done at all NASQAN and Hydrologic Bench-mark stations during various seasons and surface-water discharges. Documentation of cross-section variation of water quality is essential in order to determine how many samples in a cross section are necessary to ensure a representative composite sample.

Laboratory Measurements

Sediment samples, samples for biochemical-oxygen demand (BOD), samples for indicator bacteria, and daily samples for specific conductance are analyzed locally. All other samples are analyzed in the Geological Survey laboratories in Arvada, CO, or Doraville, GA. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chapter C1. Methods used by the Geological Survey laboratories are given in TWRI, Book 1, Chapter D2; Book 3, Chapter C2; Book 5, Chapters A1, A3, and A4.

Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily are presented first. Tables of "daily values" of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information, as appropriate, is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

DRAINAGE AREA.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

PERIOD OF RECORD.--This indicates the periods for which there are published water-quality records for the station. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

INSTRUMENTATION.--Information on instrumentation is given only if a water-quality monitor temperature record, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.--Remarks provide added information pertinent to the collection, analysis, or computation of the records.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

EXTREMES.--Maximums and minimums are given only for parameters measured daily or more frequently. None are given for parameters measured weekly or less frequently, because the true maximums or minimums may not have been sampled. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the U.S. Geological Survey's computerized data system, WATSTORE, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to ensure the most recent updates.

The surface-water-quality records for partial-record stations and miscellaneous sampling sites are published in separate tables following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

Remark Codes

The following remark codes may appear with the water-quality data in this report:

PRINTED OUTPUT	REMARK
E	Estimated value
>	Actual value is known to be greater than the value shown
<	Actual value is known to be less than the value shown
K	Results based on colony count outside the acceptable range (non-ideal colony count)
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted)
D	Biological organism count equal to or greater than 15 percent (dominant)
&	Biological organism estimated as dominant

ACCESS TO WATSTORE DATA

The National WATer Data STOrage and REtrieval System (WATSTORE) was established for handling water data collected through the activities of the U.S. Geological Survey and to provide more effective and efficient means of releasing the data to the public. The system is operated and maintained on the central computer facilities of the Survey at its National Center in Reston, Virginia.

WATSTORE can provide a variety of useful products ranging from simple data tables to complex statistical analyses. A minimal fee, plus the actual computer cost incurred in producing a desired product, is charged to the requester. Information about the availability of specific types of data, the acquisition of data or products, and user charges can be obtained locally from each of the Water Resources Division's District offices (see address given on the back of the title page).

General inquiries about WATSTORE may be directed to:

Chief Hydrologist
U.S. Geological Survey
437 National Center
Reston, VA 22092

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report are defined below. See also table for converting inch-pound units to International System (SI) Units on the inside of the back cover.

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 about 326,000 gallons or 1,233 cubic meters.

Adenosine triphosphate (ATP) is an organic, phosphate-rich, compound important in the transfer of energy in organisms. Its central role in living cells makes it an excellent indicator of the presence of living material in water. A measure of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter of the original water sample.

Algae are mostly aquatic single-celled, colonial, or multicelled plants, containing chlorophyll and lacking roots, stems and leaves.

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by a well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials, for example, decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. For the membrane filter method these bacteria are defined as the organisms which produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C ± 0.5°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestines or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. For the membrane filter method they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal-streptococcal bacteria are bacteria found in intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. For the membrane filter method they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 0.5°C on KF Streptoccus agar (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed material is the unconsolidated material of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Benthic organisms (invertebrates) are the group of animals living in or on the bottom of an aquatic environment. They include a number of types of organisms, such as bacteria, fungi, insect larvae and nymphs, snails, clams, and crayfish.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by micro-organisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2).

Dry mass refers to the mass of residue present after drying in an oven at 105°C for zooplankton and periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass, and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organism that are counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually in milliliters (mL) or liters (L).

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common pigments in plants.

Color unit is produced by one milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

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.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of saltwater.

Cubic foot per second (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 approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Cubic foot per second-day (cfs.d) is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, or about 646,000 gallons or 2,445 cubic meters.

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

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved refers to that material in a representative water sample which passes through a 0.45 µm membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate. It is recognized that certain kinds of samples cannot be filtered; to provide for this, procedures that are considered equivalent to filtering through a 0.45 µm membrane filter will be identified and announced at a later date.

Dissolved-solids concentration of water is determined either analytically or by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.492 to reflect the change.

Diversity index is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = \sum_{i=1}^{s} \frac{n_i}{n} \log^2 \frac{n_i}{n} ,$$

where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Diversity index values range from zero, when all the organisms in the samples are the same, to some positive number, when some or all the organisms in the sample are different.

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 therein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the Earth that is occupied by a drainage system, which consists of a surface stream or body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gage datum is the elevation of the zero point of the reference gage from which gage height is determined as compared to the National Geodetic Vertical Datum of 1929. This elevation is established by a system of levels from known bench marks or by approximation from topographic maps.

Gage height (G.H.) 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 hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap that is required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Hydrologic Bench-Mark Network is a network of 57 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by the activities of man.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

Light-attenuation coefficient, also known as the extinction coefficient, is a measure of water clarity. Light is attenuated according to the Lambert-Beer equation

$$I = I_o e^{-\lambda L},$$

where I_o is the source light intensity, I is the light intensity at length L (in meters) from the source, λ is the light-attenuation coefficient, and e is the base of the natural logarithm. The light-attenuation coefficient is defined as

$$\lambda = -\frac{1}{L} \log_e \frac{I}{I_o}.$$

Macrophytes are the macroscopic plants in the aquatic environment. The most common macrophytes are the rooted vascular plants that are usually arranged in zones in aquatic ecosystems and restricted in the area by the extent of illumination through the water and sediment deposition along the shoreline.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This development process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-pupa-adult or egg-nymph-adult.

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per gram (UG/G, µg/g) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

Micrograms per liter (UG/L, µg/L) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represent the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in milligrams per liter and is based on the mass of sediment per liter of water-sediment mixture.

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

National Stream Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in natural or regional water-quality planning and management. The 500 or so sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting such that the data may be used for, (2) to describe the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs, (3) to detect changes in trends with time in the pattern occurrence of water-quality characteristics, and (4) to provide a nationally consistent data base useful for water-quality assessment and hydrologic research.

Nekton are the consumers in the aquatic environment and consist of large free-swimming organisms that are capable of sustained, directed mobility.

Organism is any living entity, such as an insect, phytoplankter, or zooplankter.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per unit area of the habitat, usually square meter (m^2), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliter (mL) or liter (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Parameter code is a 5-digit number used in the U.S. Geological Survey computerized data system, WATSTORE, to uniquely identify a specific constituent. The codes used in WATSTORE are the same as those used in the U.S. Environmental Protection Agency data system, STORET. The Environmental Protection Agency assigns and approves all requests for new codes.

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

Particle size is the diameter, in millimeters (mm), of a particle determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay.....	0.00024-0.004	Sedimentation
Silt.....	0.004-0.062	Sedimentation
Sand.....	0.062-2.0	Sedimentation or sieve
Gravel.....	2.0-64.0	Sieve

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

Percent composition or percent of total is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, weight, or volume.

Periphyton is the assemblage of micro-organisms attached to and living upon submerged solid surfaces. While primarily consisting of algae, the periphyton also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton are useful indicators of water quality.

Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides, which control insects and plants respectively, are the two categories reported.

pH of water is the negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7 are termed "acidic," and solutions with a pH greater than 7 are termed "basic." Solutions with a pH of 7 are neutral. The presence and concentration of many dissolved chemical constituents found in water are, in part, influenced by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms are also influenced, in part, by the hydrogen-ion activity of water.

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Plankton are suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Plankton--Continued

Phytoplankton compose the plant part of the plankton. They are usually microscopic and their movement is subject to water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials into the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment and are commonly known as algae.

Blue-green algae are phytoplankton organisms having a blue pigment in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algal mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure or organochlorine insecticides.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms, chiefly green plants. The rate of primary production is estimated by measuring the amount of carbon assimilated by plants (carbon method) or the amount of oxygen released (oxygen method).

Milligrams of carbon per area or volume per unit time [mg C/(m^2·time)] for periphyton and macrophytes and [mg C/(m^3·time)] for phytoplankton are the units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity that the oxygen light- and dark-bottle method, and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time [mg O_2/(m^2·time)] for periphyton and macrophytes and [mg O_2/(m^3·time)] for phytoplankton are the units for expressing primary productivity. They define production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light- and dark-bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

Radiochemical Program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Recoverable from bottom material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humas. The quantity, characteristics, and cause of occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Bedload is the sediment that is transported in a stream by rolling, sliding, or skipping along the bed and very close to it. In this report, bedload is considered to consist of particles in transit within 0.25 ft (0.076 m) of the streambed.

Sediment--Continued

Bedload discharge (tons per day) is the quantity of sediment, as measured by dry weight, that moves past a section as bedload in a given time.

Suspended sediment is the sediment that any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft or above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour period.

Suspended-sediment discharge (tons per day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry mass or volume, that passes a section in a given time. It is calculated in units of tons per day by multiplying discharge times milligrams per liter times 0.0027.

Suspended-sediment load (tons per day) is a general term that refers to material in suspension. It is not synonymous with either discharge or concentration.

Total-sediment discharge or total-sediment load (tons per day) is the sum of suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry mass, that passes a section in a given time.

Total-sediment load or total load is a term which refers to the total sediment (bed load plus suspended-sediment load) that is in transport. It is not synonymous with total-sediment discharge.

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions with soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance that is dissolved in water.

Specific conductance is a measure of the ability of water to conduct an electrical current. It is expressed in microsiemens per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content in water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

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

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff." Streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lives.

Natural substrate refers to any naturally occurring emersed or submersed solid surface, such as a rock or tree, upon which an organism lives.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multiplate samplers (made of hardboard) for benthic-organism collection and plexiglass strips for periphyton collection.

Surface area of a lake is the area, in square miles or acres, outlined on the latest Geological Survey topographic map as the boundary of the lake and measured by a planimeter. In localities not covered by topographic maps, the areas are computed from the best maps available. Areas shown are for the lake stage at the time the map was made.

Surficial bed material is the part (upper 0.1 to 0.2 ft or 0.03 to 0.06 m) of the bed material that is sampled by using U.S. Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. The water-sediment mixture is associated with (or sorbed on) the material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, *Hexagenia limbata* is the following:

Kingdom.....	Animal
Phylum.....	Arthropoda
Class.....	Insecta
Order.....	Ephemeroptera
Family.....	Ephemeridae
Genus.....	*Hexagenia*
Species.....	*Hexagenia limbata*

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the presence of a thermograph or a digital mechanism that records water temperature in a digital format on punched paper tape.

Time-weighted average is computed by multiplying and number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per liter by 0.00136.

Tons per day (T/DAY) is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour period.

Total load (tons) is the total amount of any individual constituent, as measured by dry mass or volume, that is dissolved in a specific amount of water (discharge) during a given time. It is computed by multiplying the total discharge, times the milligrams per liter of the constituent, times the factor 0.0027, times the number of days.

Total, recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the total amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Total is the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in the dissolved and suspended phases of the sample. A knowledge of the expected form is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determines all of the constituent in the sample.)

Turbidity of a sample is the reduction of transparency due to the presence of particulate matter. In this report it is expressed in Nephelometric turbidity units (NTU), obtained from the Nephelometric method for turbidity determination which measures the intensity of light scattered by suspended particles at 90 degrees from the path of incident light source.

Water year in Geological Survey reports dealing with surface-water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1985, is called the "1985 water year."

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

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

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

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S. Geological Survey, Books and Open-File Reports Section, Federal Center, Box 25425, Denver, CO 80225. Prepayment is required. Remittance should be sent by check or money order payable to the U.S. Geological Survey. Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number and "U.S. Geological Survey Techniques of Water-Resources Investigations."

1-D1. Water temperature--influential factors, field measurement, and data presentation, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.

1-D2. Guidelines for collection and field analysis of ground-water samples for selected unstable constituents, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.

2-D1. Application of surface geophysics to ground-water investigations, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.

2-E1. Application of borehole geophysics to water-resources investigations, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.

3-A1. General field and office procedures for indirect discharge measurements, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.

3-A2. Measurement of peak discharge by slope-area method, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.

3-A3. Measurement of peak discharge at culverts by indirect methods, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.

3-A4. Measurement of peak discharge at width contractions by indirect methods, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.

3-A5. Measurement of peak discharge at dams by indirect methods, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.

3-A6. General procedure for gaging streams, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.

3-A7. Stage measurements at gaging stations, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.

3-A8. Discharge measurements at gaging stations, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.

3-A9. Measurement of time of travel and dispersion in streams by dye tracing, by E. F. Hubbard, F. A. Kilpatrick, L. A. Martens, and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1982. 44 pages.

3-A10. Discharge ratings at gaging stations, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 pages.

3-A11. Measurement of discharge by moving-boat method, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.

3-A13. Computation of continuous records of streamflow, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A13. 1983. 53 pages.

3-A14. Use of flumes in measuring discharge, by F. A. Kilpatrick and V. R. Schneider: USGS--TWRI Book 3, Chapter A14. 1983. 46 pages.

3-A15. Computation of water-surface profiles in open channels, by Jacob Davidian: USGS--TWRI Book 3, Chapter A15. 1984. 48 pages.

3-B1. Aquifer-test design, observation, and data analysis, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.

3-B2. Introduction to ground-water hydraulics, a programmed text for self-instruction, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.

3-B3. Type curves for selected problems of flow to wells in confined aquifers, by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.

3-C1. Fluvial sediment concepts, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.

3-C2. Field methods for measurement of fluvial sediment, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.

3-C3. Computation of fluvial-sediment discharge, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.

4-A1. Some statistical tools in hydrology, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.

4-A2. Frequency curves, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.

4-B1. Low-flow investigations, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.

4-B2. Storage analyses for water supply, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.

4-B3. Regional analyses of streamflow characteristics, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.

4-D1. Computation of rate and volume of stream depletion by wells, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.

5-A1. Methods for determination of inorganic substances in water and fluvial sediments, by M. W. Skougstad and others, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.

5-A2. Determination of minor elements in water by emission spectroscopy, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.

5-A3. Methods for analysis of organic substances in water, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages.

5-A4. Methods for collection and analysis of aquatic biological and microbiological samples, edited by P. E. Greeson, T. A. Ehlke, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages.

5-A5. Methods for determination of radioactive substances in water and fluvial sediments, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.

5-A6. Quality assurance practices for the chemical and biological analyses of water and fluvial sediments, by L. C. Friedman and D. E. Erdmann: USGS--TWRI Book 5, Chapter A6. 1982. 181 pages.

5-C1. Laboratory theory and methods for sediment analysis, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.

7-C1. Finite difference model for aquifer simulation in two dimensions with results of numerical experiments, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.

7-C2. Computer model of two-dimensional solute transport and dispersion in ground water, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.

7-C3. A model for simulation of flow in singular and interconnected channels by R. W. Shaffrannek, R. A. Baltzer, and D. E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.

8-A1. Methods of measuring water levels in deep wells, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.

8-A2. Installation and service manual for U.S. Geological Survey manometers, by J. D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 pages.

8-B2. Calibration and maintenance of vertical-axis type current meters, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

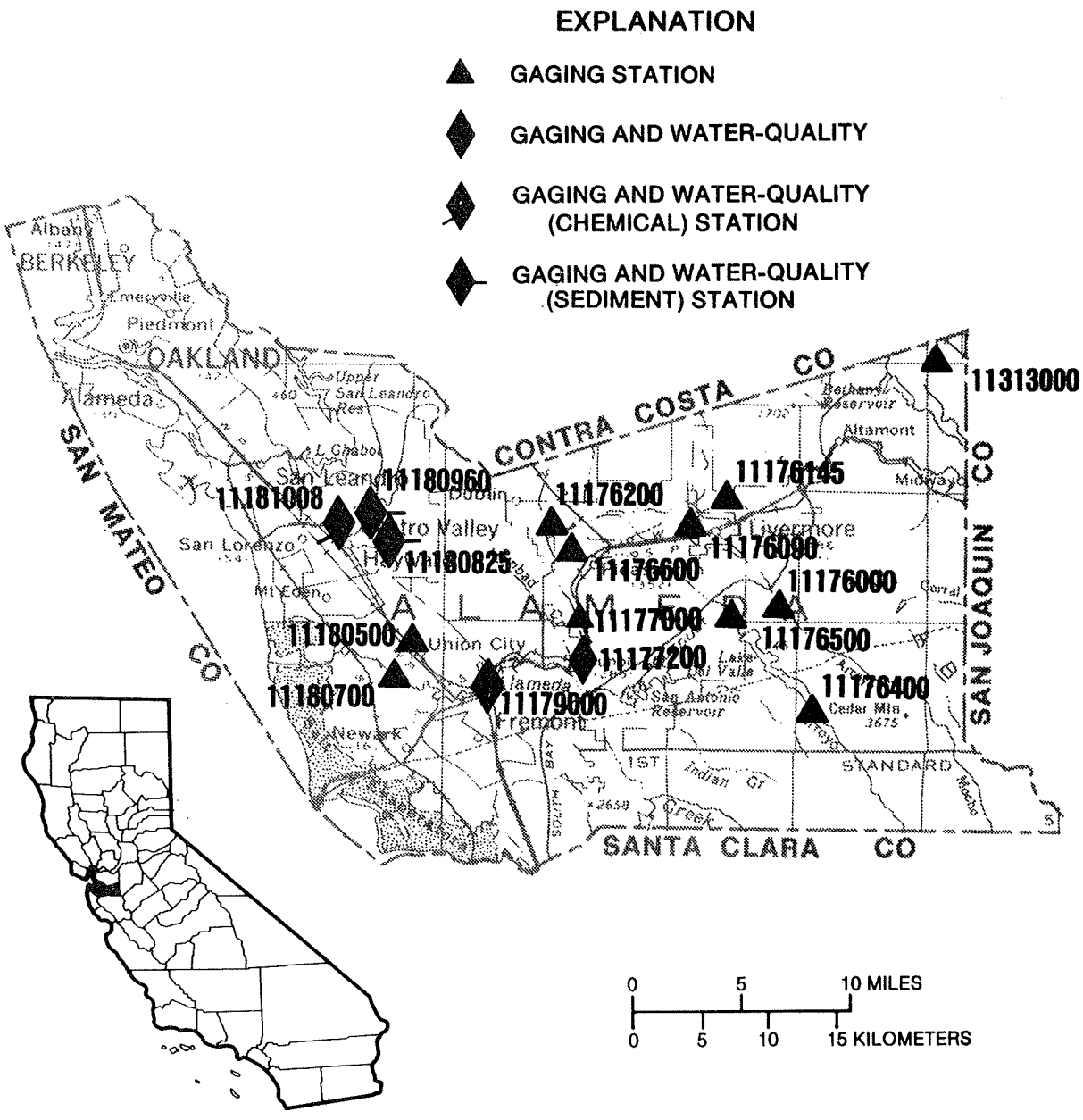


FIGURE 4. — Location of discharge and water-quality stations in Alameda County.

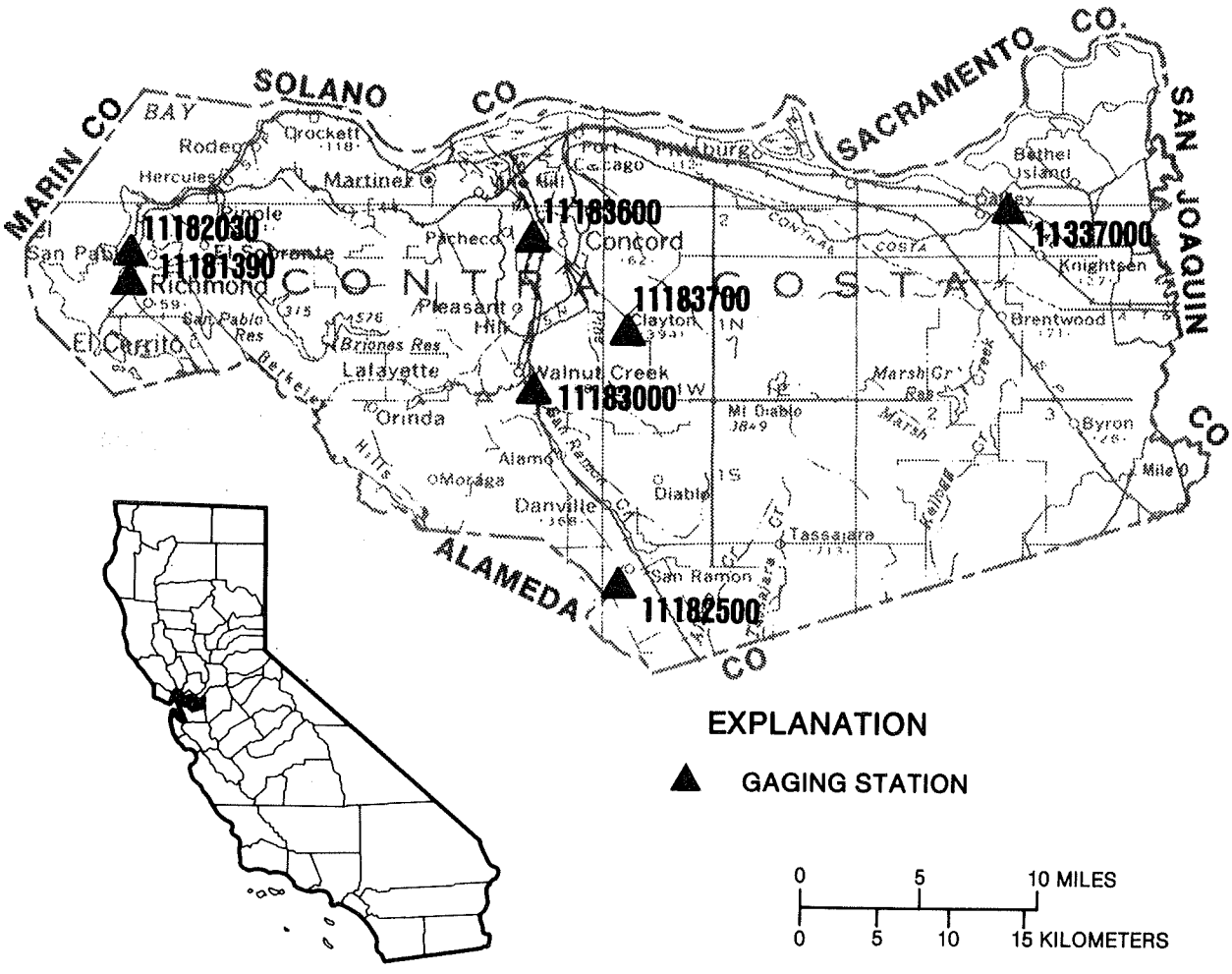


FIGURE 5. — Location of discharge stations in Contra Costa County.

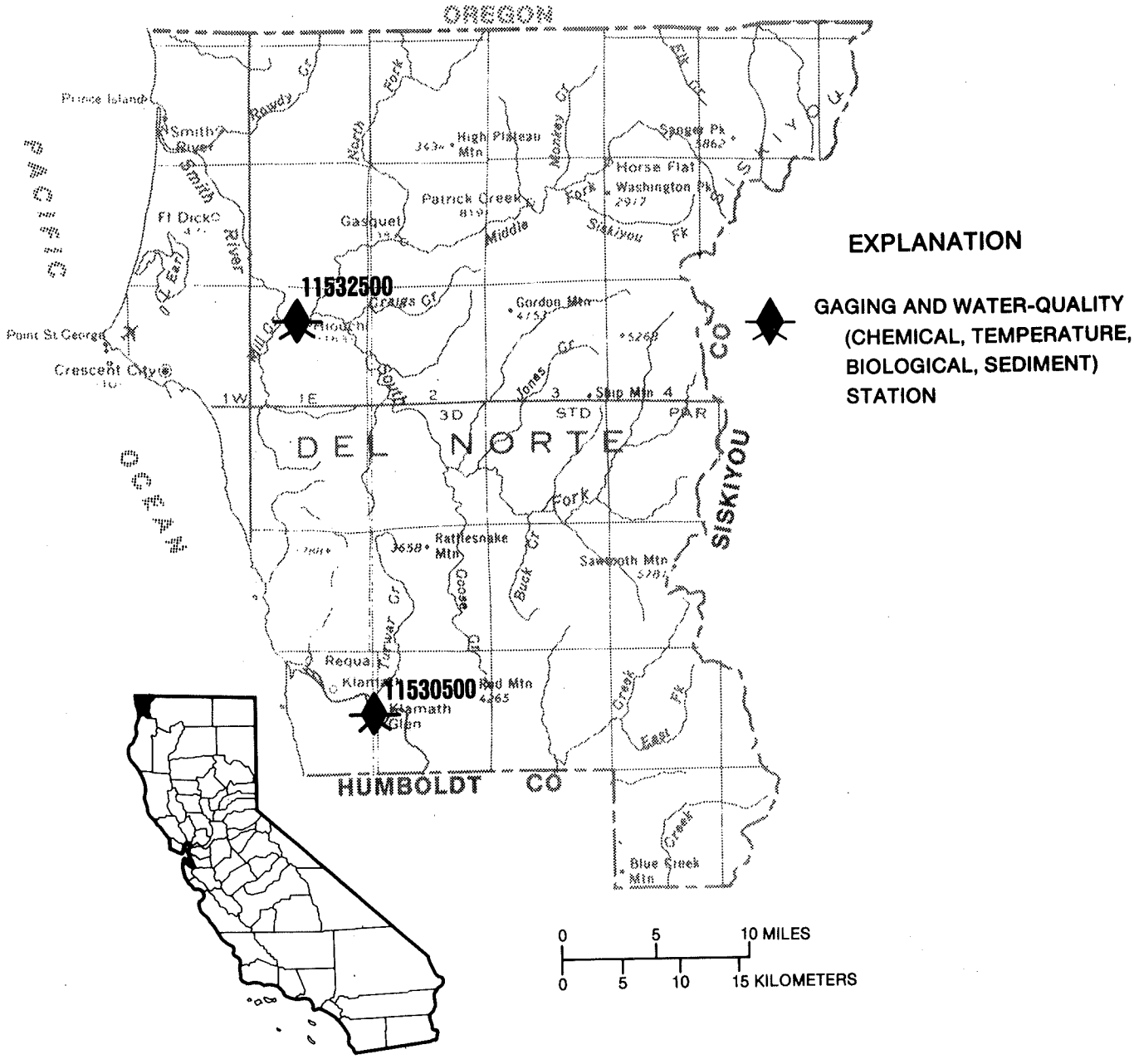


FIGURE 6. — Location of discharge and water-quality stations in Del Norte County.

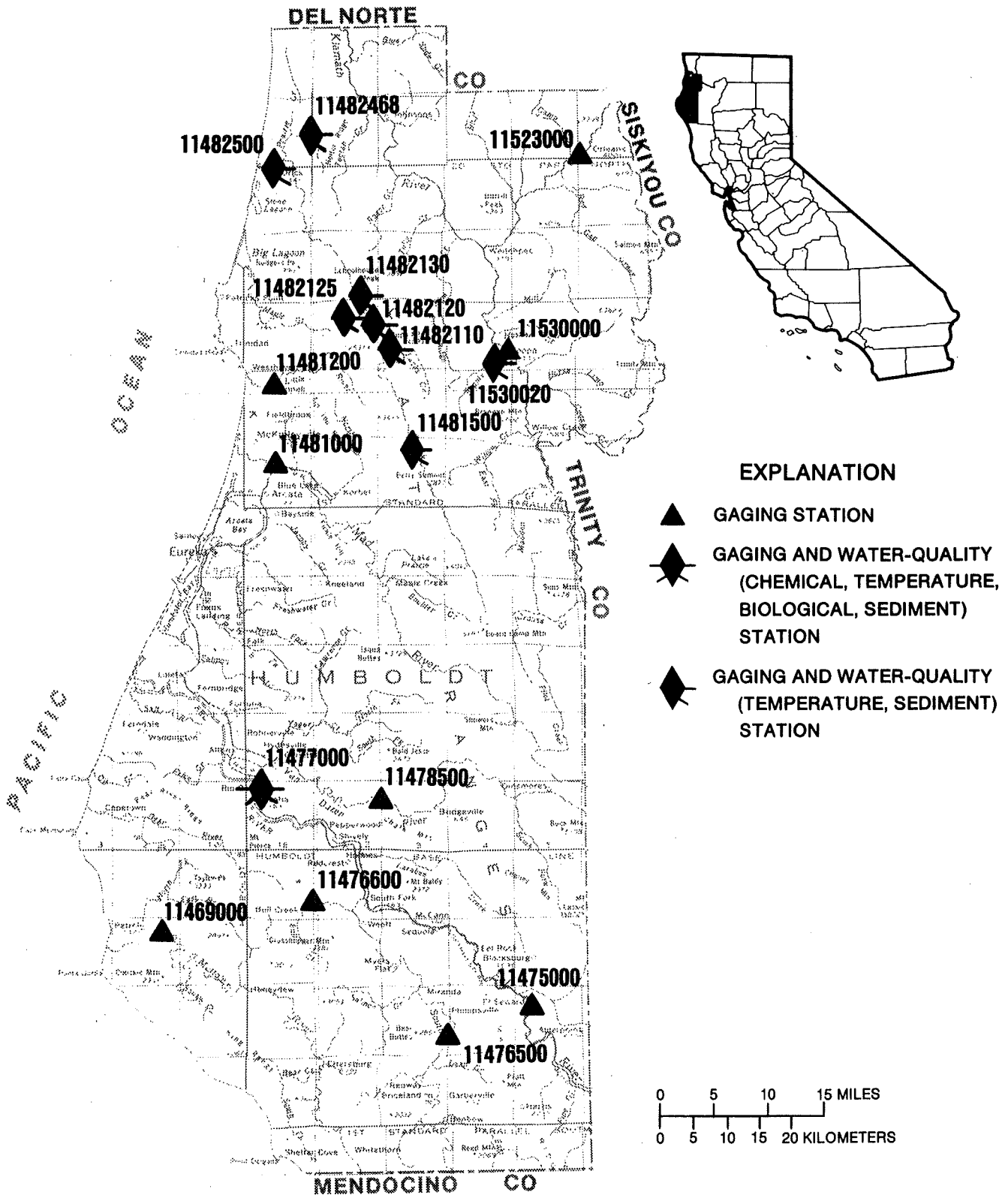


FIGURE 7. — Location of discharge and water-quality stations in Humboldt County.

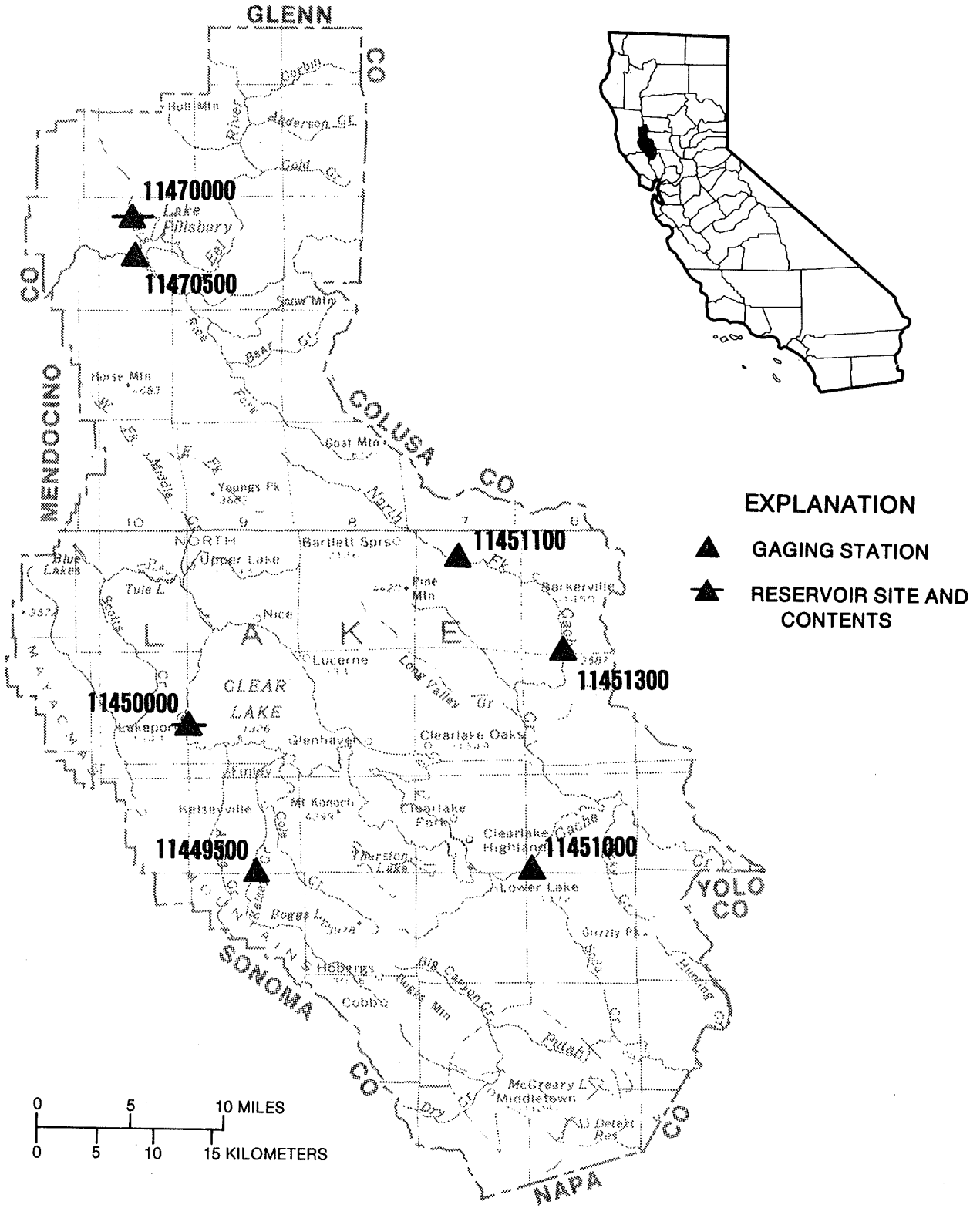


FIGURE 8. — Location of discharge stations in Lake County.

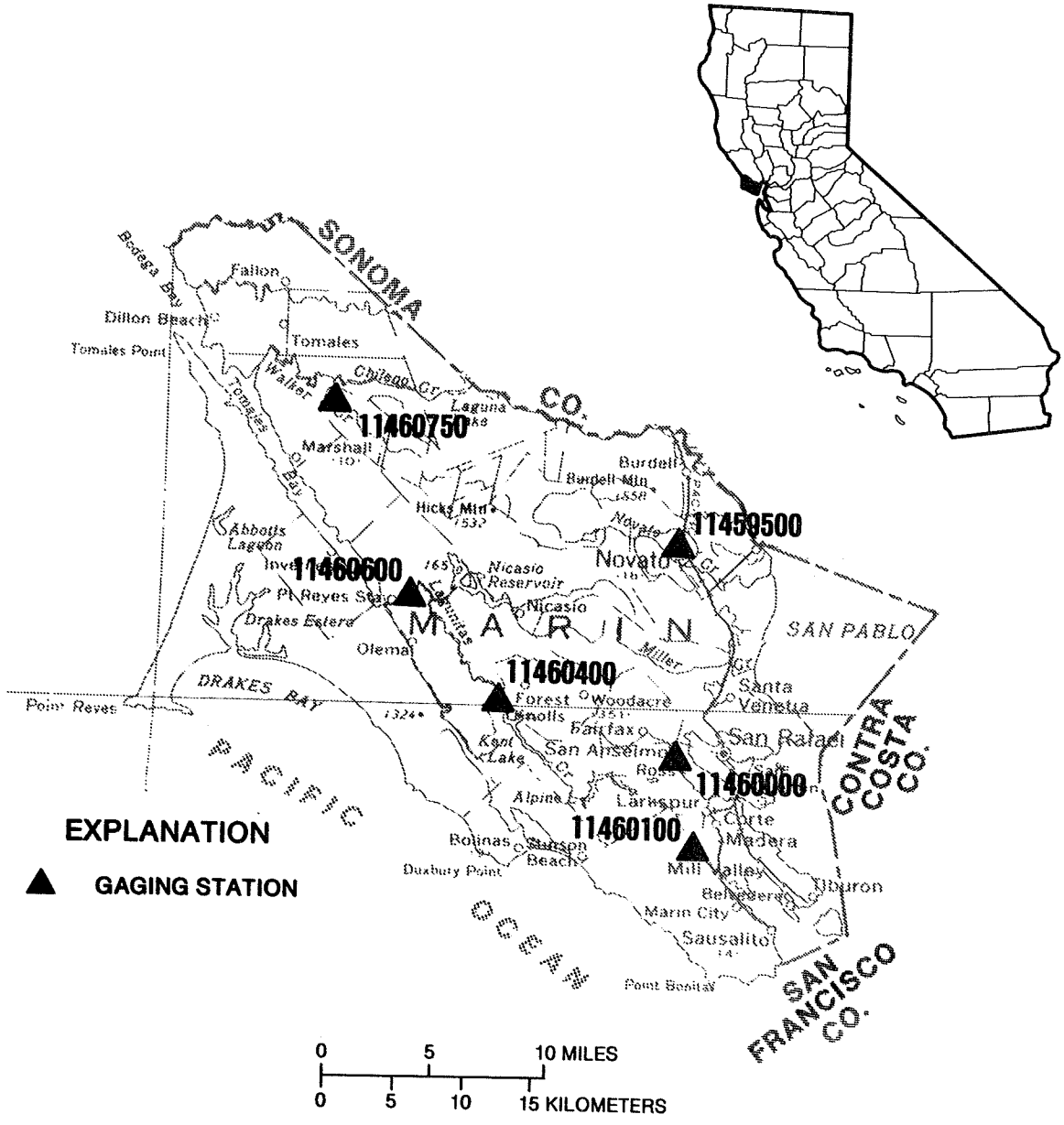


FIGURE 9. — Location of discharge stations in Marin County.

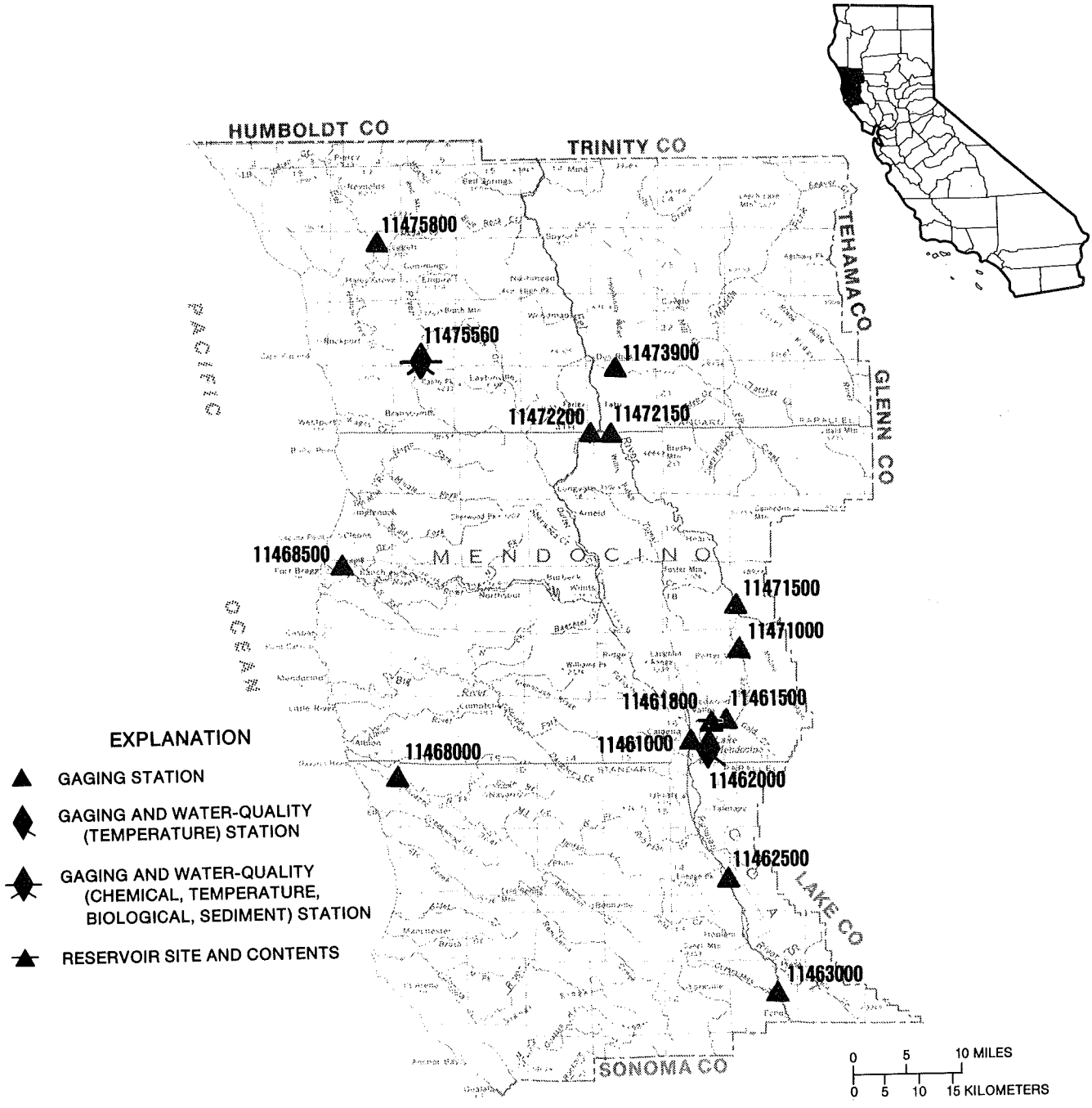


FIGURE 10. — Location of discharge and water-quality stations in Mendocino County.

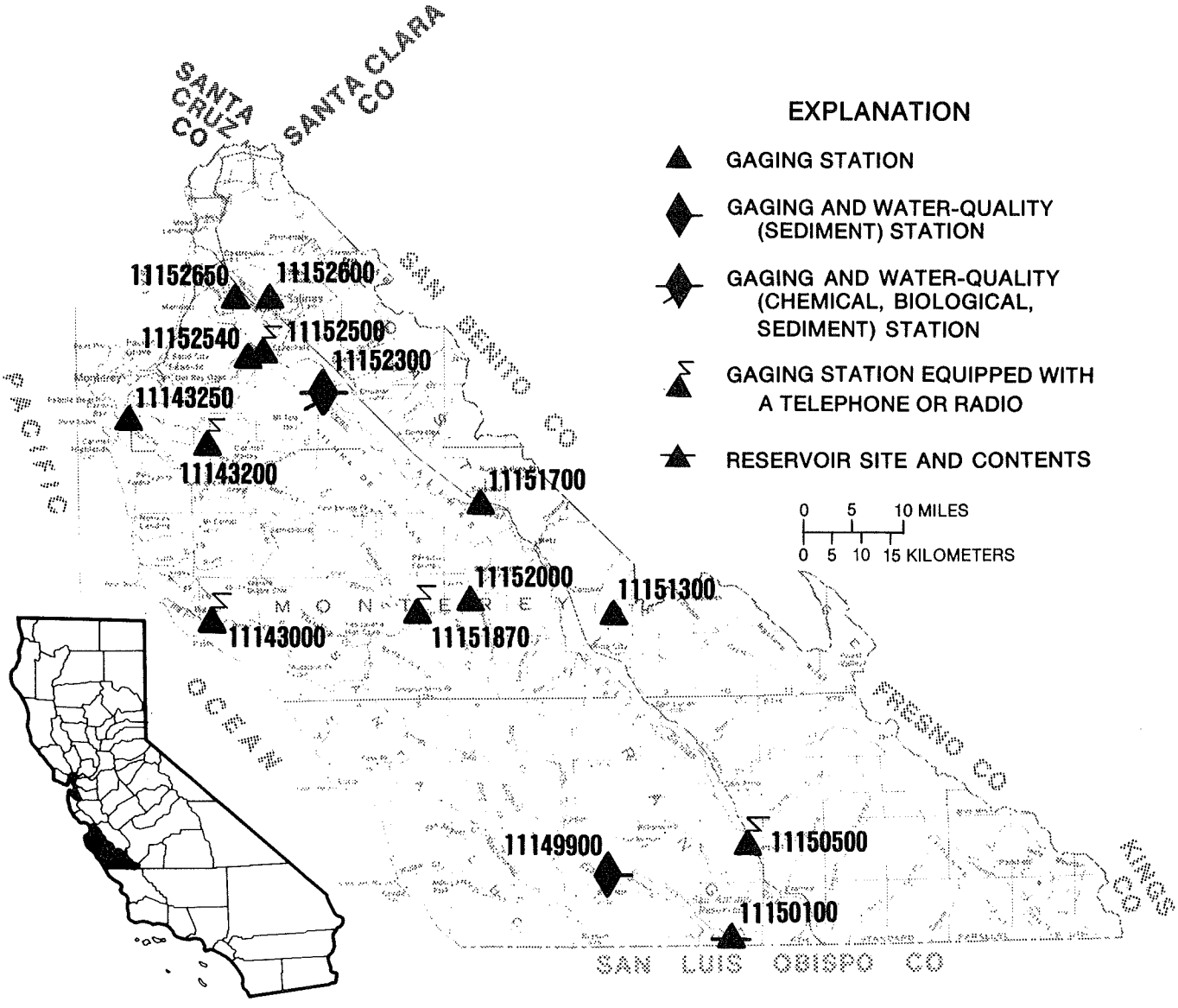


FIGURE 11. — Location of discharge and water-quality stations in Monterey County.

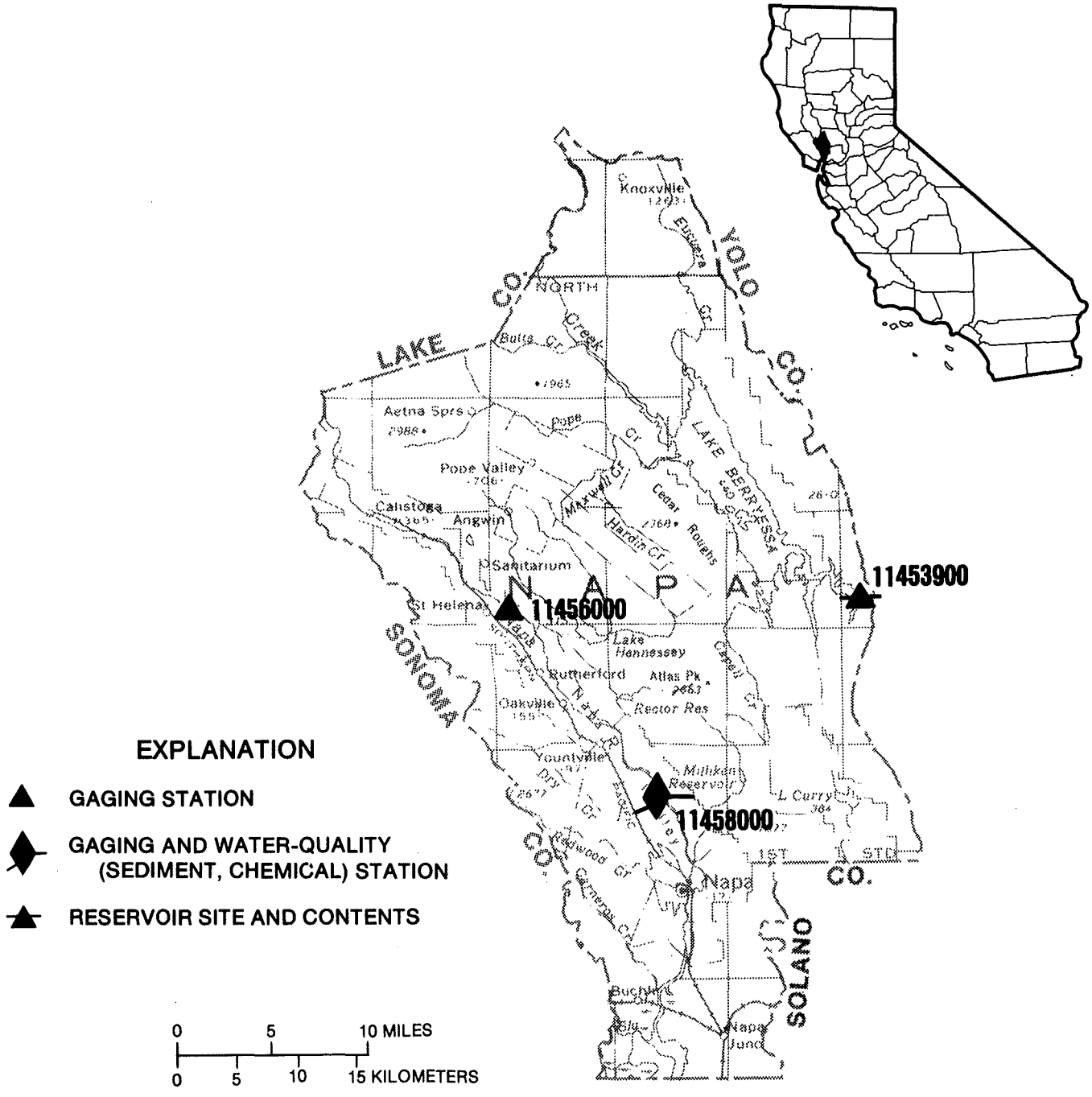


FIGURE 12. — Location of discharge and water-quality stations in Napa County.

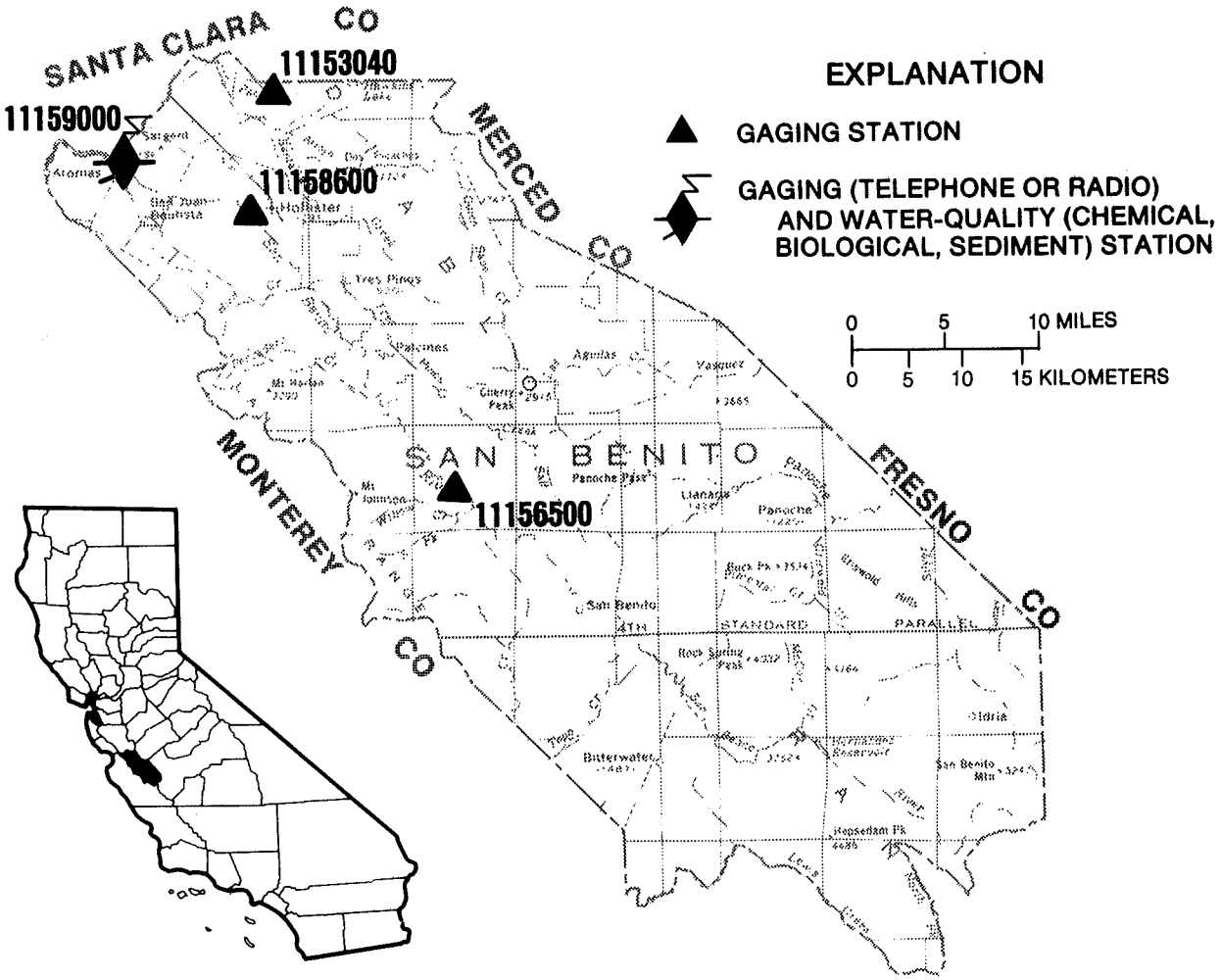


FIGURE 13. — Location of discharge and water-quality stations in San Benito County.

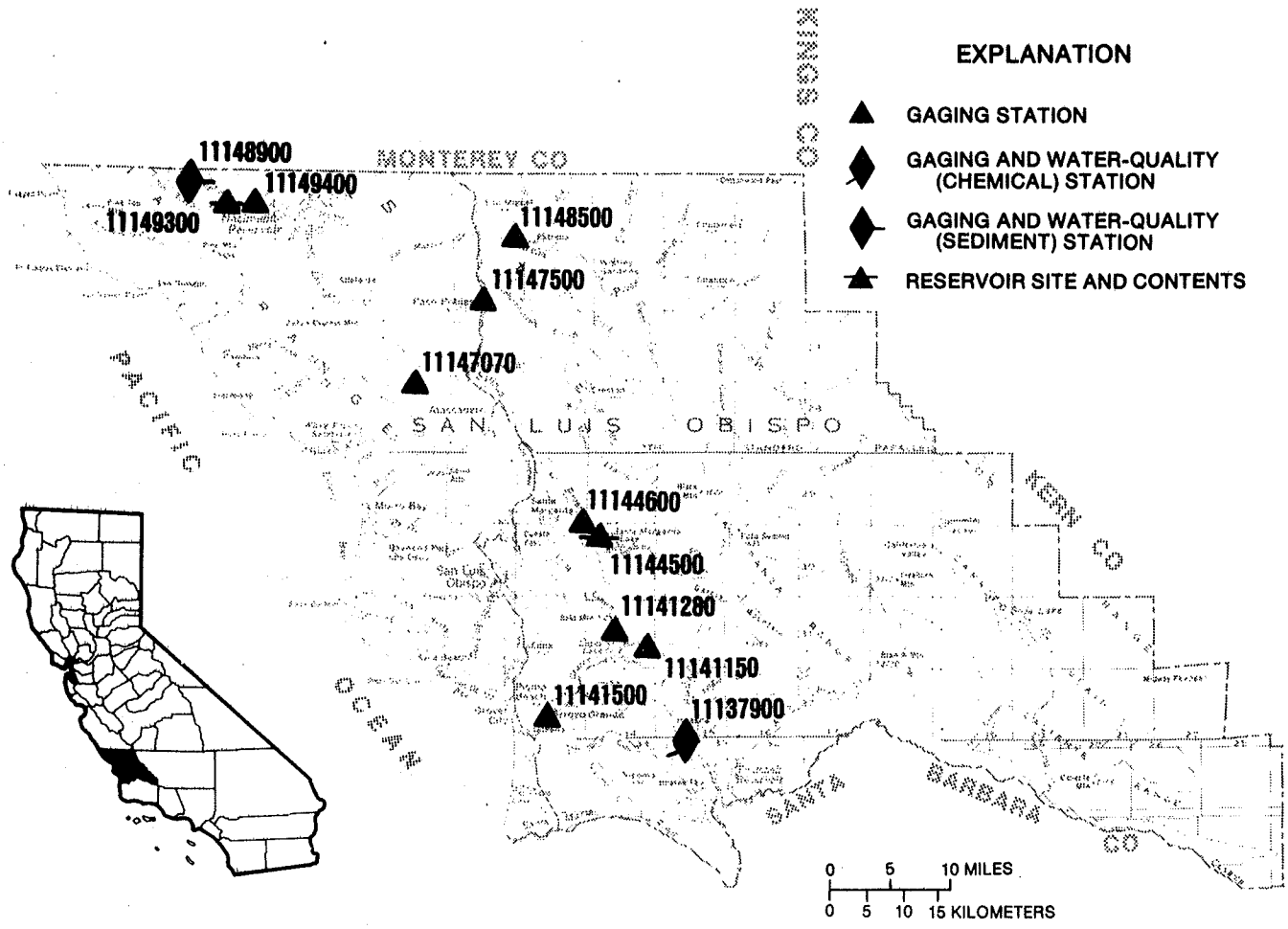
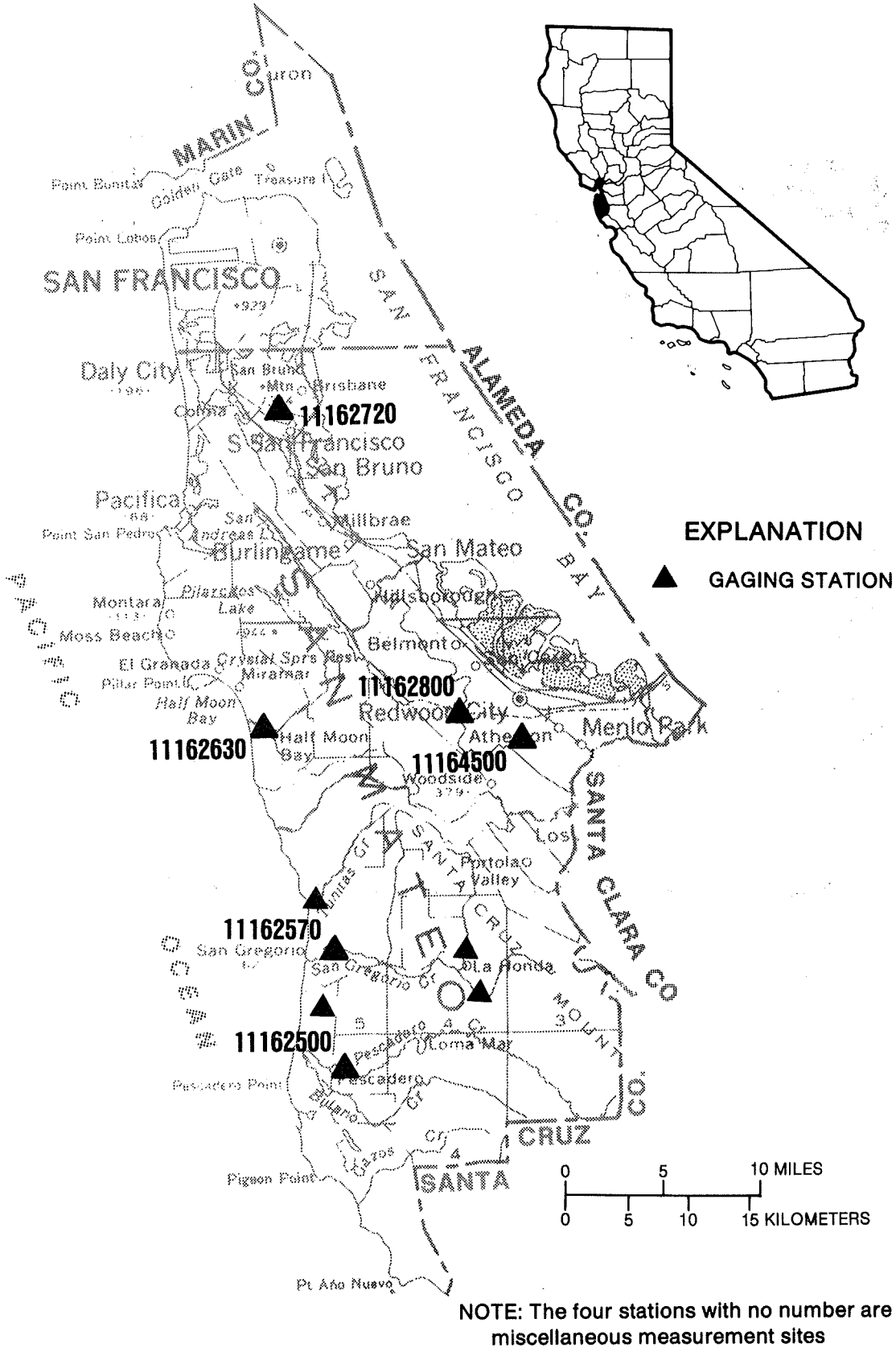


FIGURE 14. — Location of discharge and water-quality stations in San Luis Obispo County.



NOTE: The four stations with no number are miscellaneous measurement sites

FIGURE 15. — Location of discharge and water-quality stations in San Mateo County.

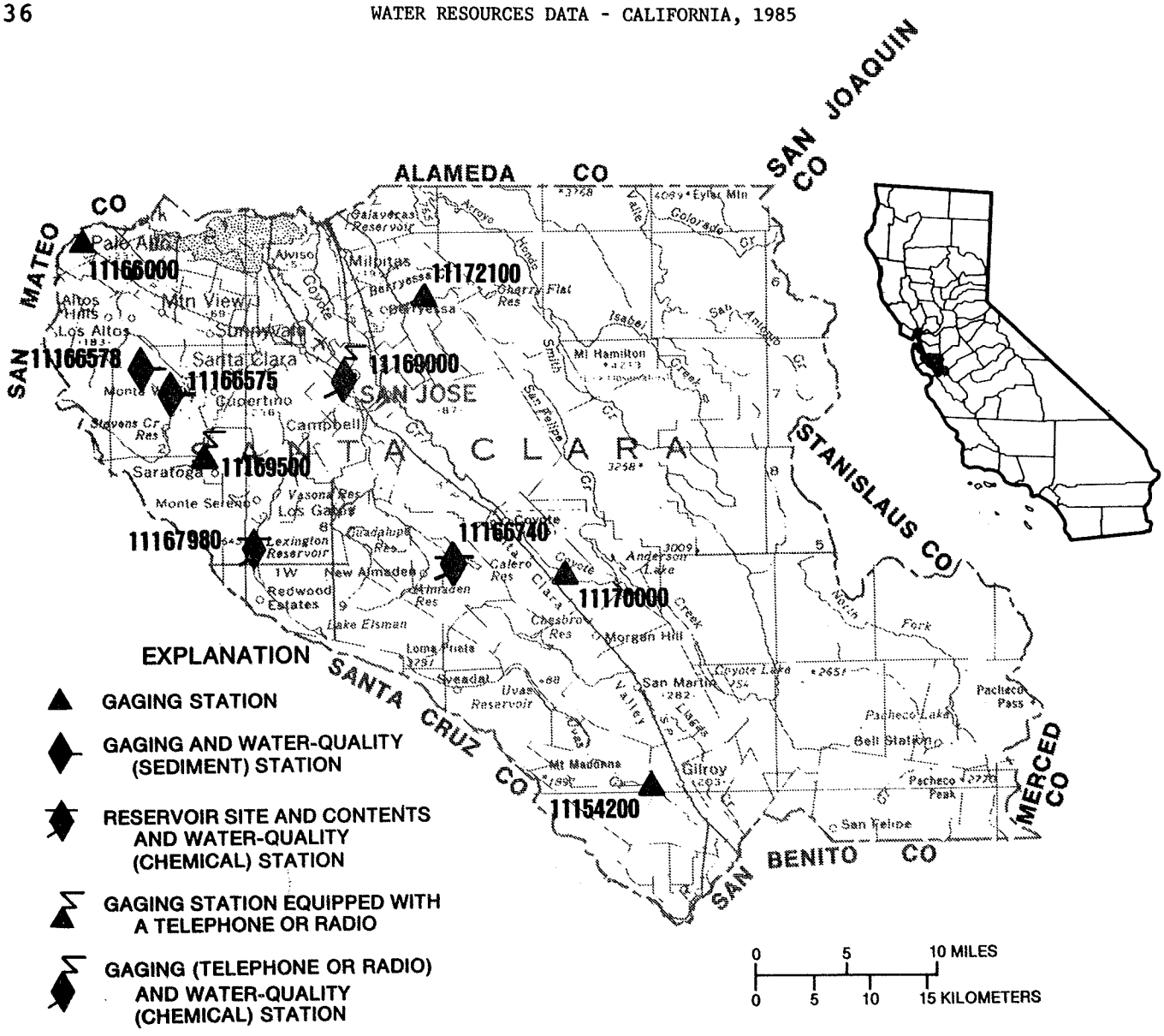


FIGURE 16. — Location of discharge and water-quality stations in Santa Clara County.

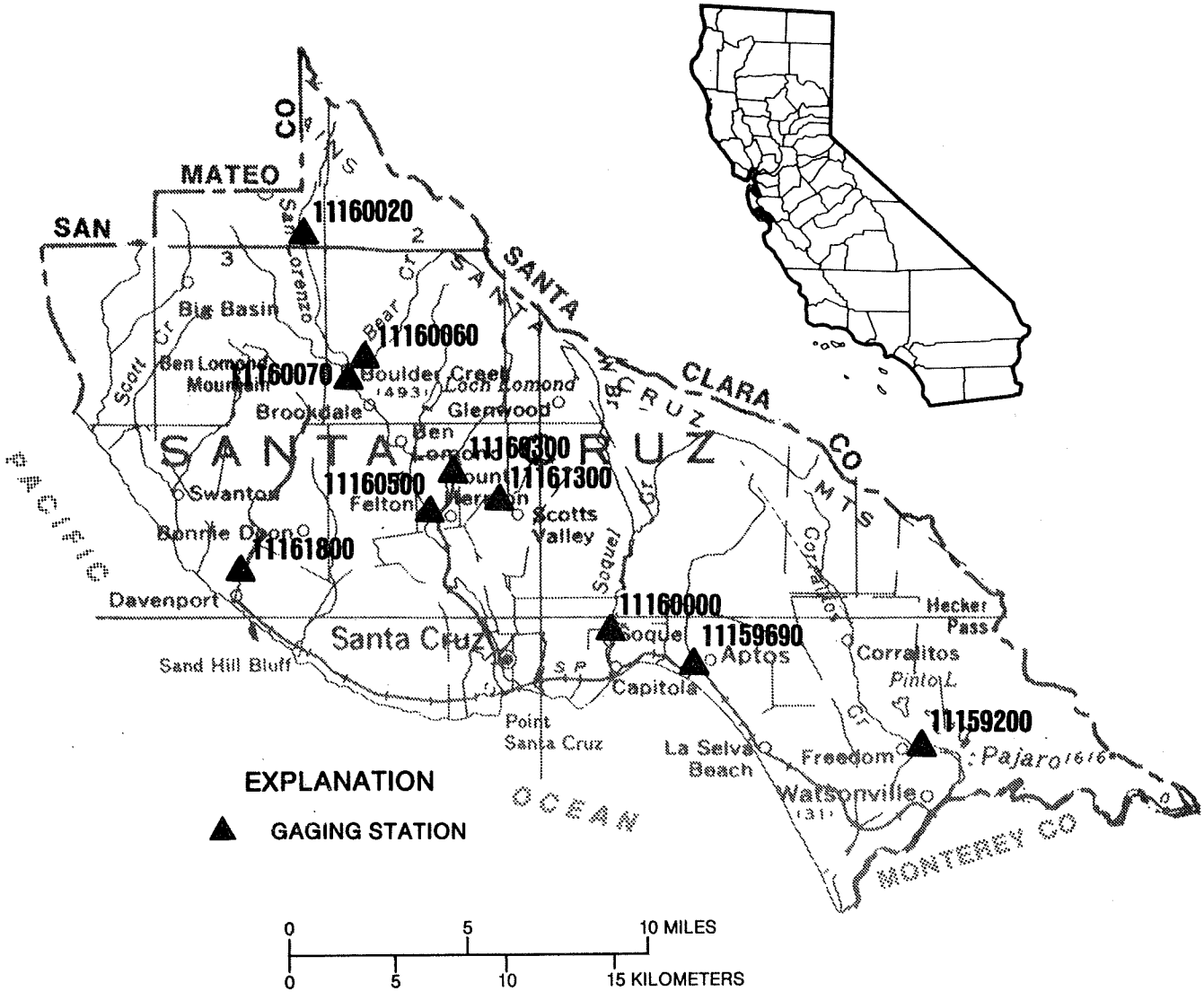


FIGURE 17. — Location of discharge stations in Santa Cruz County.

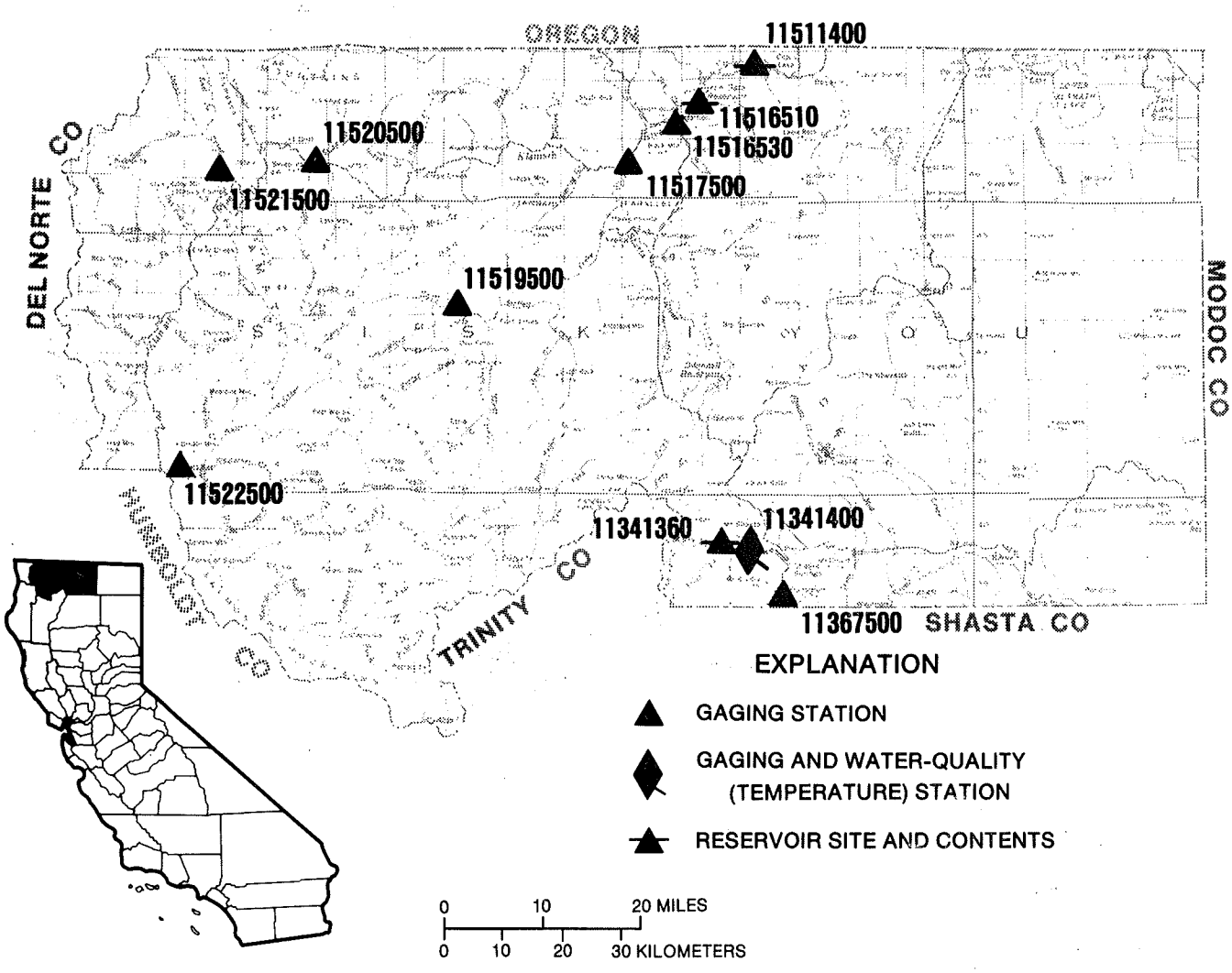


FIGURE 18. — Location of discharge and water-quality stations in Siskiyou County.

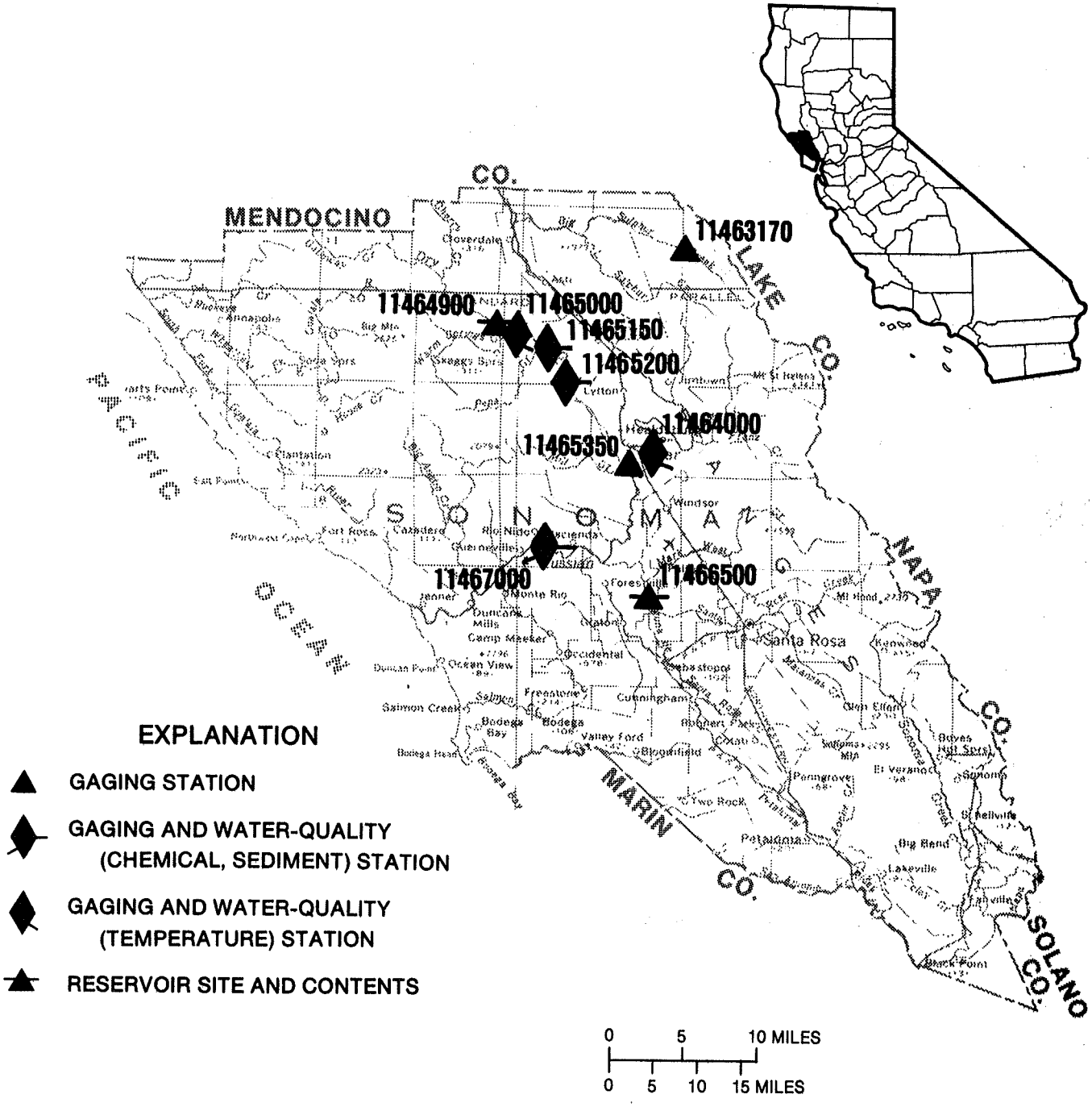


FIGURE 19. — Location of discharge and water-quality stations in Sonoma County.

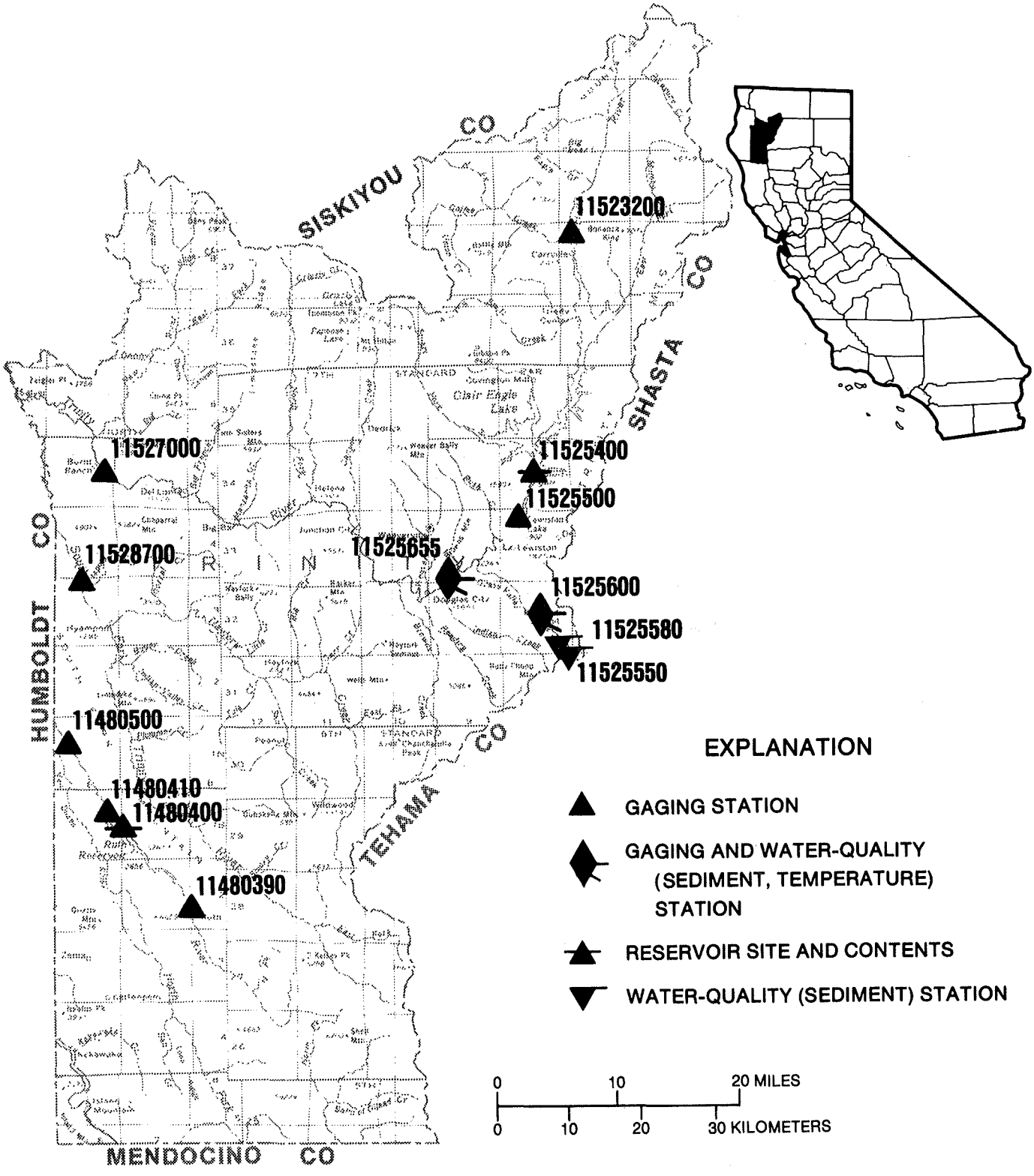


FIGURE 20. — Location of discharge and water-quality stations in Trinity County.

DISCONTINUED GAGING STATIONS

The following continuous-record streamflow stations in California have been discontinued as of the 1985 water year. Daily streamflow or stage records were collected and published for the period of record shown for each station.

Station number	Station name	Drainage area (mi^2)	Period of record
11153040	Pacheco Creek at Dunneville, CA	154	1982-85
11159690	Aptos Creek near Aptos, CA	10.2	1972-85
11161800	San Vicente Creek near Davenport, CA	6.07	1984-85

DISCONTINUED WATER-QUALITY STATIONS

The following water-quality stations in California have been discontinued as of the 1985 water year.

Station number	Station name	Drainage area (mi^2)	Type of Record	Period of Record
11530020	Supply Creek at Hoopa, CA	15.8	T,S	1982-85
	Soctish Creek near Hoopa, CA		WQPR	1982-85
	Mill Creek at Hoopa, CA		WQPR	1982-85
	Pine Creek near Weitchpec		WQPR	1982-85
	Supply Creek near Hoopa, CA			1982-85

Type of record: T (water temperature); S (sediment); WQPR (water-quality partial-record station).

11141150 ARROYO GRANDE ABOVE PHOENIX CREEK, NEAR ARROYO GRANDE, CA

LOCATION (REVISED).--Lat 35°11'19", long 120°26'03", in Arroyo Grande Grant, San Luis Obispo County, Hydrologic Unit 18060006, on right bank 0.4 mi upstream from county road bridge, 0.45 mi upstream from Phoenix Creek, and 9.2 mi northeast of Arroyo Grande.

DRAINAGE AREA.--13.4 mi^2 (revised).

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

GAGE.--Water-stage recorder. Elevation of gage is 560 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to May 24, 1984, at site 0.4 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records fair except above 3 ft^3/s, which are poor. No regulation or diversion upstream from station except for small stock ponds.

AVERAGE DISCHARGE.--18 years, 3.04 ft^3/s, 2,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,270 ft^3/s, Jan. 25, 1969, gage height, 6.83 ft, in gage well, 6.57 ft, from floodmarks, from rating curve extended above 350 ft^3/s on basis of slope-area measurement of peak flow, maximum gage height, 8.29 ft, Apr. 4, 1978, site and datum then in use; minimum daily discharge, 0.12 ft^3/s, Sept. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 40 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 8	1545	*42	*5.61				

Minimum daily, 0.30 ft^3/s, Aug. 30, 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.83	1.0	1.2	1.3	1.6	1.6	1.3	.77	.74	.62	.40	.31
2	.85	1.1	1.2	1.3	2.2	2.1	1.3	.79	.82	.58	.38	.34
3	.89	1.0	1.5	1.3	1.7	1.8	1.3	.72	.86	.58	.39	.44
4	.91	.98	1.2	1.3	1.7	1.8	1.2	.61	.74	.55	.40	.52
5	.88	1.0	1.3	1.3	1.6	2.0	1.2	.62	.66	.59	.39	.54
6	.83	1.1	1.2	1.4	1.6	2.5	1.3	.67	.61	.73	.43	.51
7	.82	1.1	1.2	2.1	1.5	3.1	1.3	.91	.54	.74	.46	.50
8	.85	1.6	1.2	3.1	12	1.8	1.2	.94	.54	.58	.42	.51
9	.82	1.2	1.2	1.8	3.8	1.8	1.2	.90	.51	.47	.42	.52
10	.88	1.2	1.8	1.7	2.3	1.8	1.2	.90	.54	.53	.49	.48
11	1.1	1.2	1.4	1.6	1.9	2.0	1.2	.97	.57	.56	.60	.48
12	.98	1.5	1.3	1.6	1.8	1.6	1.2	.94	.65	.58	.66	.44
13	.91	2.5	1.2	1.5	1.8	1.6	1.2	.87	.66	.69	.57	.40
14	.88	1.3	1.2	1.4	1.7	1.6	1.2	.79	.65	.68	.56	.42
15	.89	1.2	2.7	1.5	1.7	1.6	1.3	.79	.66	.64	.52	.43
16	1.6	1.4	2.1	1.4	1.7	1.5	1.4	.81	.62	.61	.52	.50
17	1.4	1.3	1.5	1.5	1.7	1.5	1.4	.76	.68	.56	.74	.59
18	.90	1.3	2.0	1.5	1.6	1.9	1.3	.71	.69	.53	.63	.67
19	.93	1.2	3.8	1.6	1.5	1.5	1.2	.70	.74	.56	.56	.63
20	.95	1.2	2.1	1.6	1.5	1.3	1.2	.68	.76	.68	.53	.59
21	.99	1.3	1.7	1.6	1.5	1.3	1.3	.64	.78	.56	.50	.56
22	1.0	1.3	1.6	1.6	1.5	1.2	1.2	.61	.81	.51	.47	.57
23	.97	1.3	1.6	1.4	1.5	1.2	1.0	.58	.80	.49	.45	.61
24	.98	2.6	1.5	1.4	1.4	1.2	.91	.60	.85	.46	.39	.57
25	.96	1.4	1.4	1.4	1.4	1.3	.86	.75	.81	.47	.34	.54
26	.99	1.3	1.4	1.5	1.4	1.6	.82	.79	.77	.45	.36	.73
27	1.0	1.5	1.5	1.6	1.5	3.7	.81	.78	.69	.41	.37	.82
28	.99	2.0	1.4	1.7	1.5	3.5	.82	.71	.66	.40	.35	.76
29	.97	1.4	1.4	1.7	---	1.7	.83	.65	.75	.41	.33	.85
30	1.0	1.3	1.4	1.6	---	1.5	.81	.60	.67	.43	.30	.97
31	1.1	---	1.4	1.6	---	1.4	---	.66	---	.41	.30	---
TOTAL	30.05	40.78	48.6	48.9	58.6	56.0	34.46	23.22	20.83	17.06	14.23	16.80
MEAN	.97	1.36	1.57	1.58	2.09	1.81	1.15	.75	.69	.55	.46	.56
MAX	1.6	2.6	3.8	3.1	12	3.7	1.4	.97	.86	.74	.74	.97
MIN	.82	.98	1.2	1.3	1.4	1.2	.81	.58	.51	.40	.30	.31
AC-FT	60	81	96	97	116	111	68	46	41	34	28	33

CAL YR 1984	TOTAL	664.57	MEAN	1.82	MAX	4.1	MIN	.71	AC-FT	1320
WTR YR 1985	TOTAL	409.53	MEAN	1.12	MAX	12	MIN	.30	AC-FT	812

11141280 LOPEZ CREEK NEAR ARROYO GRANDE, CA

LOCATION (REVISED).--Lat 35°14'08", long 120°28'17", in SE 1/4 SE 1/4 sec.19, T.31 S., R.14 E., San Luis Obispo County, Hydrologic Unit 18060006, on right bank 3.4 mi north of Lopez Lake spillway, and 9.2 mi northeast of Arroyo Grande.

DRAINAGE AREA.--20.9 mi^2 (revised).

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

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 580 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Oct. 31, 1984, at site .4 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 4-5, Dec. 10 to Jan. 9, Feb. 21 to Mar. 6, and June 4 to Sept. 30. Records fair except for periods of estimated discharges and for flows greater than 10 ft^3/s, which are poor. Small diversions above station for domestic use.

AVERAGE DISCHARGE.--18 years, 11.6 ft^3/s, 8,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,830 ft^3/s, Jan. 25, 1969, gage height, 9.26 ft in gage well, 10.8 ft from floodmarks, site and datum then in use, from rating curve extended above 300 ft^3/s on basis of slope-area measurement of peak flow; maximum gage height, 9.62 ft, site and datum then in use, Mar. 1, 1983; minimum daily discharge, 0.30 ft^3/s, Aug. 1, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 8	1915	*510	*5.58

Minimum daily, 2.1 ft^3/s, July 9, August 1-2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	3.6	4.8	4.2	4.3	5.9	11	4.1	3.4	2.9	2.1	2.9
2	3.2	3.6	4.8	4.0	5.3	6.8	7.1	3.9	3.2	2.7	2.1	3.0
3	3.2	3.5	4.8	4.1	4.7	6.0	6.0	4.3	3.2	2.6	2.2	3.0
4	3.4	3.2	4.8	4.7	4.3	5.4	5.3	4.3	3.2	2.6	2.2	3.4
5	3.6	3.2	4.3	6.2	4.3	5.2	5.2	4.3	3.2	2.7	2.3	3.4
6	3.5	3.2	4.3	10	4.3	5.7	4.9	4.3	2.9	3.0	2.5	3.4
7	3.4	4.2	4.3	8.1	4.3	17	5.3	4.3	2.6	2.8	2.7	3.3
8	3.2	9.6	4.2	5.4	102	8.3	4.8	3.9	2.6	2.4	2.9	3.2
9	3.2	6.7	3.9	4.4	73	6.7	4.8	4.5	2.6	2.1	2.9	3.2
10	3.2	6.2	5.6	4.3	23	6.2	4.7	5.6	2.7	2.2	3.0	3.2
11	3.9	6.1	5.3	4.4	15	6.2	4.3	5.3	2.8	2.3	3.1	3.2
12	3.9	6.1	4.6	4.3	13	6.7	4.3	5.5	2.8	2.5	3.2	3.3
13	3.6	8.9	4.1	4.3	11	6.7	4.3	5.6	2.9	2.8	3.1	3.4
14	3.2	6.6	4.0	4.3	10	6.5	4.1	5.7	2.9	2.8	3.1	3.2
15	3.2	6.0	5.0	4.4	9.5	6.7	4.5	5.7	2.8	2.6	3.1	3.1
16	4.3	5.3	8.1	4.4	9.1	6.7	4.8	5.3	2.9	2.5	3.1	3.1
17	8.3	4.8	6.4	4.3	8.2	6.7	4.8	5.3	3.0	2.5	3.2	3.3
18	5.7	4.3	5.2	4.3	7.7	6.7	4.8	5.3	3.1	2.6	3.4	3.3
19	5.3	3.9	8.0	4.3	7.1	6.7	5.3	4.8	3.1	2.7	3.4	3.2
20	5.3	3.9	12	4.7	6.7	6.6	5.3	4.8	3.2	2.8	3.4	3.2
21	5.3	3.9	6.0	4.8	6.4	6.2	5.3	4.5	3.3	2.7	3.3	3.0
22	4.3	3.9	5.2	4.8	6.3	6.2	5.3	4.3	3.4	2.4	3.2	2.9
23	4.3	3.9	5.1	4.8	6.1	6.3	5.0	4.3	3.4	2.3	3.0	2.9
24	3.9	6.3	5.0	4.8	5.8	6.1	5.3	3.9	3.5	2.3	2.8	2.9
25	3.9	5.4	4.7	4.8	5.4	5.7	4.8	3.9	3.4	2.4	2.6	3.2
26	3.9	4.7	4.5	4.8	5.2	6.1	4.8	4.1	3.3	2.3	2.7	3.4
27	3.9	5.2	4.6	4.8	5.0	25	4.3	3.9	3.0	2.2	2.8	3.4
28	3.9	8.8	4.6	4.8	5.2	44	4.3	3.9	3.1	2.2	2.9	3.5
29	3.9	6.2	4.4	4.6	---	22	4.3	3.9	3.2	2.2	2.9	3.7
30	3.9	5.3	4.3	4.3	---	14	4.3	3.6	3.1	2.2	2.9	4.3
31	3.9	---	4.3	4.3	---	11	---	3.6	---	2.3	2.9	---
TOTAL	124.6	156.5	161.2	150.7	372.2	292.0	153.3	140.7	91.8	77.6	89.0	97.5
MEAN	4.02	5.22	5.20	4.86	13.3	9.42	5.11	4.54	3.06	2.50	2.87	3.25
MAX	8.3	9.6	12	10	102	44	11	5.7	3.5	3.0	3.4	4.3
MIN	2.9	3.2	3.9	4.0	4.3	5.2	4.1	3.6	2.6	2.1	2.1	2.9
AC-FT	247	310	320	299	738	579	304	279	182	154	177	193

CAL YR 1984	TOTAL	2203.0	MEAN	6.02	MAX	20	MIN	2.4	AC-FT	4370
WTR YR 1985	TOTAL	1907.1	MEAN	5.22	MAX	102	MIN	2.1	AC-FT	3780

11141500 ARROYO GRANDE AT ARROYO GRANDE, CA

LOCATION.--Lat 35°07'28", long 120°34'05", in Pismo Grant, San Luis Obispo County, Hydrologic Unit 18060006, on left bank at Arroyo Grande, and 0.7 mi upstream from U.S. Highway 101.

DRAINAGE AREA.--102 mi^2.

PERIOD OF RECORD.--October 1939 to current year. Records for water year 1940 incomplete, yearly estimate published in WSP 1315-B.

REVISED RECORDS.--WSP 931: 1940. WSP 1011: 1941, 1942(M). WSP 1929: Drainage area.

GAGE.--Water-stage recorder and broad-crested weir. Datum of gage is 97.77 ft above National Geodetic Vertical Datum of 1929. Prior to July 10, 1947, at datum 0.50 ft higher.

REMARKS.--No estimated daily discharges. Records good except summer months which are fair. Flow regulated by Lopez Dam 7.8 mi upstream since 1968, usable capacity, 47,800 acre-ft. Many small and intermittent diversions by pumping from stream for irrigation of about 4,000 acres upstream from station.

AVERAGE DISCHARGE.--29 years (water years 1940-68), 19.4 ft^3/s, 14,060 acre-ft/yr; 17 years (water years 1969-85), 20.1 ft^3/s, 14,560 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,400 ft^3/s, Dec. 6, 1966, gage height, 12.88 ft; no flow for several days in some years. Maximum discharge since construction of Lopez Dam in 1968, 4,620 ft^3/s, Mar. 1, 1983, gage height, 10.68 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 65 ft^3/s, Feb. 8, gage height, 2.47 ft; minimum daily, 0.43 ft^3/s, July 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	3.9	5.3	5.5	6.2	3.4	2.5	1.2	2.9	.77	2.2	1.2
2	2.7	4.4	6.1	5.3	6.7	3.8	1.8	2.1	2.9	.50	2.5	2.6
3	3.2	3.8	7.4	5.0	6.0	3.9	1.7	1.1	3.3	.66	3.6	3.6
4	3.6	3.3	6.9	5.3	5.6	4.3	1.9	1.0	3.0	1.2	5.7	3.4
5	3.3	4.4	7.1	4.8	5.2	4.2	2.7	1.4	2.7	1.2	5.7	3.5
6	3.6	4.5	7.4	4.4	5.3	4.4	2.1	1.5	1.8	.90	5.7	2.6
7	4.0	3.8	6.7	5.9	5.1	4.6	2.6	1.1	1.6	2.1	5.0	2.3
8	4.7	4.4	5.5	10	18	4.3	2.1	1.1	1.3	1.4	5.1	3.2
9	4.6	5.1	5.3	6.7	12	4.1	2.2	1.2	2.8	.43	4.4	3.8
10	4.3	5.1	7.2	6.6	6.6	4.6	2.5	1.1	2.5	.53	4.4	2.9
11	4.8	5.4	5.8	6.6	6.0	4.3	2.0	.79	2.2	.98	4.0	2.2
12	4.6	5.9	5.7	6.3	5.7	4.0	1.4	1.1	1.7	1.7	3.7	1.4
13	3.9	9.7	5.7	6.6	5.7	4.1	2.4	1.2	1.8	2.9	1.8	2.6
14	4.3	5.6	5.7	6.6	5.0	4.1	1.3	.86	2.4	3.0	1.8	1.7
15	4.7	5.7	7.4	6.6	5.1	4.1	1.4	.81	3.1	3.1	1.6	3.5
16	6.2	5.6	7.2	6.2	4.6	3.3	1.8	1.3	2.1	3.2	2.1	3.3
17	7.5	6.0	6.5	6.2	5.0	3.6	1.5	1.5	2.7	2.8	1.7	2.7
18	5.8	5.8	6.7	6.4	5.1	3.8	1.1	.87	1.6	2.2	1.9	2.7
19	5.6	5.4	10	5.8	5.0	3.6	1.5	2.7	1.8	3.9	3.1	2.4
20	5.5	5.3	7.1	5.9	4.4	3.6	2.4	4.7	1.6	2.4	1.5	2.9
21	5.7	5.6	6.1	5.8	4.3	3.6	3.1	4.0	2.1	4.3	1.2	2.9
22	5.3	5.5	6.2	6.1	4.3	2.8	1.9	3.6	2.2	4.8	1.2	2.5
23	4.1	5.4	6.0	6.2	3.7	2.1	1.1	3.4	2.0	5.4	1.5	2.5
24	3.9	8.9	5.8	5.5	3.4	2.9	1.2	3.1	1.8	5.0	1.4	2.9
25	4.1	6.0	5.8	5.5	4.1	3.4	1.2	4.0	.91	4.2	1.3	1.9
26	3.4	5.6	5.7	4.7	3.8	3.5	1.4	5.4	1.3	3.4	1.8	2.5
27	3.8	5.6	5.6	4.5	3.8	3.9	1.7	5.4	1.5	5.1	.82	1.9
28	4.3	5.8	5.2	5.6	3.3	3.8	1.3	5.0	.96	7.0	.71	2.6
29	3.9	5.4	5.3	5.5	---	3.8	1.9	4.2	.71	5.5	.87	3.4
30	2.9	5.3	5.5	5.8	---	3.2	1.1	2.2	1.2	2.9	.54	3.4
31	3.2	---	5.2	6.6	---	3.1	---	3.2	---	2.4	.71	---
TOTAL	134.8	162.2	195.1	184.5	159.0	116.2	54.8	72.13	60.48	85.87	79.55	81.0
MEAN	4.35	5.41	6.29	5.95	5.68	3.75	1.83	2.33	2.02	2.77	2.57	2.70
MAX	7.5	9.7	10	10	18	4.6	3.1	5.4	3.3	7.0	5.7	3.8
MIN	2.7	3.3	5.2	4.4	3.3	2.1	1.1	.79	.71	.43	.54	1.2
AC-FT	267	322	387	366	315	230	109	143	120	170	158	161

CAL YR 1984	TOTAL	2679.78	MEAN	7.32	MAX	54	MIN	.46	AC-FT	5320
WTR YR 1985	TOTAL	1385.63	MEAN	3.80	MAX	18	MIN	.43	AC-FT	2750

11143000 BIG SUR RIVER NEAR BIG SUR, CA

LOCATION.--Lat 36°14'45", long 121°46'20", in SW 1/4 SW 1/4 sec.29, T.19 S., R.2 E., Monterey County, Hydrologic Unit 18060006, on right bank at downstream side of bridge, 0.4 mi upstream from Post Creek, and 2.6 mi southeast of town of Big Sur.

DRAINAGE AREA.--46.5 mi^2.

PERIOD OF RECORD.--March 1950 to current year. Prior to October 1959, published as Sur River at Big Sur.

REVISED RECORDS.--WSP 1445: 1952(P), 1953(M). WSP 1715: 1951, drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 240 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Oct. 1, 1951, nonrecording gage at site 0.9 mi downstream at different datum.

REMARKS.--Estimated daily discharges: May 16 to Sept. 30. Records good except for period of estimated daily discharges, which is poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--35 years, 105 ft^3/s, 76,070 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,700 ft^3/s, Jan. 5, 1978, gage height, 14.30 ft; minimum daily, 2.6 ft^3/s, Aug. 23, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 27	2215	1,180	6.56	Feb. 8	1330	*2,460	*8.06

Minimum daily, 11 ft^3/s, many days during August and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	19	61	41	28	47	120	46	27	15	12	11
2	14	20	54	40	31	52	111	45	26	15	12	11
3	14	24	74	39	28	46	104	44	26	15	12	11
4	15	20	57	38	28	45	99	43	25	14	12	11
5	15	20	55	37	28	51	94	43	25	14	12	11
6	14	22	51	37	27	68	90	43	24	14	12	11
7	14	22	46	42	29	112	86	43	24	14	12	11
8	14	54	43	51	813	78	82	42	23	14	12	11
9	14	31	43	42	384	71	78	42	23	13	12	14
10	14	26	113	40	203	82	76	42	22	13	12	12
11	19	24	79	39	148	144	73	42	21	13	12	12
12	16	28	68	38	120	128	70	41	21	13	11	12
13	15	84	61	37	105	114	67	39	21	13	11	12
14	14	42	56	36	95	102	65	38	20	13	11	12
15	14	34	113	34	87	94	65	38	20	13	11	12
16	32	96	126	33	81	88	65	38	20	13	11	12
17	44	71	98	33	76	84	68	37	19	13	11	12
18	21	56	93	32	72	94	63	36	19	12	11	12
19	20	46	85	32	68	83	61	36	19	12	11	12
20	19	43	77	32	64	78	59	35	18	12	11	12
21	17	41	70	31	61	74	65	34	18	12	11	12
22	17	38	66	31	59	71	59	33	18	12	11	12
23	16	37	61	30	57	68	56	32	17	12	11	12
24	17	67	57	30	54	66	53	32	17	12	11	12
25	16	57	54	30	53	64	52	31	17	12	11	12
26	17	48	56	29	51	106	51	30	16	12	11	12
27	17	193	52	29	50	340	50	30	16	12	11	12
28	18	285	49	30	48	211	49	29	16	12	11	12
29	18	108	47	29	---	170	48	28	16	12	11	12
30	19	76	45	29	---	148	47	28	15	12	11	12
31	19	---	43	28	---	132	---	27	---	12	11	---
TOTAL	547	1732	2053	1079	2948	3111	2126	1147	609	400	352	354
MEAN	17.6	57.7	66.2	34.8	105	100	70.9	37.0	20.3	12.9	11.4	11.8
MAX	44	285	126	51	813	340	120	46	27	15	12	14
MIN	14	19	43	28	27	45	47	27	15	12	11	11
AC-FT	1080	3440	4070	2140	5850	6170	4220	2280	1210	793	698	702

CAL YR 1984 TOTAL 18195 MEAN 49.7 MAX 314 MIN 13 AC-FT 36090
WTR YR 1985 TOTAL 16458 MEAN 45.1 MAX 813 MIN 11 AC-FT 32640

11143200 CARMEL RIVER AT ROBLES DEL RIO, CA

LOCATION.--Lat 36°28'28", long 121°43'37", in Los Laureles Grant, Monterey County, Hydrologic Unit 18060012, on right bank 10 ft downstream of county road bridge at Robles del Rio, 0.2 mi downstream from Hitchcock Canyon, and 11 mi southeast of town of Carmel.

DRAINAGE AREA.--193 mi^2.

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

REVISED RECORDS.--WSP 1715: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 270 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to June 1981 at site 150 ft upstream at same datum.

REMARKS.--Estimated daily discharges: Dec. 20-28 and Jan. 1-15. Records good except for estimated record periods, which are fair. Low flow regulated by Los Padres Reservoir 11 mi upstream, capacity, 2,180 acre-ft and San Clemente Reservoir 4 mi upstream, capacity, 796 acre-ft. Diversion from San Clemente Reservoir for municipal supply amounted to 9,310 acre-ft for the current year.

AVERAGE DISCHARGE (unadjusted).--28 years, 95.3 ft^3/s, 69,040 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,380 ft^3/s, Feb. 28, 1983, from rating curve extended above 4,900 ft^3/s. gage height, 11.49 ft; no flow at times in most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 23, 1955, reached a stage of 11.7 ft from floodmarks, discharge, 6,930 ft^3/s by slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 8	1815	*937	*6.97				

Minimum daily, 0.38 ft^3/s, Aug. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	3.5	66	32	16	30	125	24	10	6.6	1.2	1.8
2	1.5	3.5	55	31	19	29	112	20	7.3	5.1	1.0	2.0
3	1.4	3.5	60	30	21	23	102	20	6.5	4.4	.46	2.1
4	1.4	3.5	48	29	22	12	96	21	6.0	4.0	.38	2.2
5	1.4	3.4	42	28	19	23	82	22	5.7	4.0	1.3	2.3
6	1.4	3.8	40	27	18	40	66	20	5.5	4.0	1.1	2.3
7	1.3	4.1	37	30	17	118	67	12	6.9	4.0	1.2	2.2
8	1.3	11	35	33	284	81	66	12	6.8	4.0	1.2	2.1
9	1.3	26	31	37	298	68	58	13	6.6	4.0	1.2	2.3
10	.97	23	53	33	166	69	34	18	6.2	3.5	1.0	2.3
11	2.6	8.1	60	31	121	127	50	20	6.0	3.0	1.1	2.2
12	1.6	8.7	53	29	88	167	55	19	5.9	2.9	1.0	2.2
13	1.6	11	49	26	72	136	55	18	5.6	2.8	1.4	2.1
14	1.7	7.9	44	24	62	118	54	17	5.5	2.6	1.1	2.2
15	1.9	7.4	48	23	53	82	51	15	5.4	2.5	1.2	2.2
16	2.7	8.8	98	22	49	50	50	14	5.5	2.8	1.2	2.2
17	3.2	7.6	73	22	43	82	50	13	5.5	4.1	1.4	2.4
18	2.9	7.4	70	21	40	81	48	13	5.4	4.2	1.4	2.5
19	3.4	16	67	20	36	27	48	14	5.5	4.2	1.3	2.6
20	3.4	17	62	19	34	21	44	13	5.4	5.7	1.1	2.6
21	3.3	15	56	19	31	19	43	12	5.9	6.3	1.2	2.5
22	3.3	12	53	19	30	25	43	12	5.8	5.9	1.3	2.5
23	3.3	11	50	18	28	68	39	12	5.7	6.4	1.4	2.5
24	3.3	12	47	18	26	60	37	11	5.4	9.2	1.2	2.2
25	3.3	14	44	18	25	49	35	12	5.2	8.9	1.1	1.7
26	3.4	12	42	18	25	120	35	12	6.1	7.8	1.2	1.5
27	3.5	9.8	41	17	24	227	34	12	5.5	6.0	1.5	1.4
28	3.6	321	39	18	28	233	33	12	6.6	4.0	1.4	1.3
29	3.6	185	38	19	---	200	31	11	7.9	2.5	1.6	1.4
30	3.6	119	35	18	---	182	28	11	6.5	2.0	1.7	1.5
31	3.7	---	34	16	---	147	---	11	---	1.4	1.7	---
TOTAL	76.27	896.0	1570	745	1695	2714	1671	466	183.8	138.8	37.54	63.3
MEAN	2.46	29.9	50.6	24.0	60.5	87.5	55.7	15.0	6.13	4.48	1.21	2.11
MAX	3.7	321	98	37	298	233	125	24	10	9.2	1.7	2.6
MIN	.97	3.4	31	16	16	12	28	11	5.2	1.4	.38	1.3
AC-FT	151	1780	3110	1480	3360	5380	3310	924	365	275	74	126

CAL YR 1984	TOTAL	15658.1	MEAN	42.8	MAX	418	MIN	.97	AC-FT	31060
WTR YR 1985	TOTAL	10256.71	MEAN	28.1	MAX	321	MIN	.38	AC-FT	20340

11143250 CARMEL RIVER NEAR CARMEL, CA

LOCATION.--Lat 36°32'20", long 121°52'25", in Canada de la Segunda Grant, Monterey County, Hydrologic Unit 18060012, on right bank 0.3 mi downstream from Potrero Canyon, and 3 mi east of Carmel.

DRAINAGE AREA.--246 mi^2.

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

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 45 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: May 25 - 28 and June 6 - 17. Records good except for estimated daily discharges, which are poor. Low flow regulated by Los Padres Reservoir, capacity, 2,180 acre-ft and San Clemente Reservoir, capacity, 796 acre-ft. Diversion from San Clemente Reservoir for municipal supply amounted to 9,310 acre-ft for the current year.

AVERAGE DISCHARGE (unadjusted).--23 years, 119 ft^3/s, 86,220 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,590 ft^3/s, Feb. 28, 1983, gage height, 18.22 ft in gage well, 18.22 ft from floodmarks; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 8	2130	*637	*6.33				

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	22	31	17	46	121	29	1.2	.26		
2		0	14	30	18	46	106	26	1.4	.10		
3		0	17	29	20	46	102	23	1.3	.07		
4		0	18	27	22	33	94	23	1.0	.05		
5		0	14	26	22	38	86	23	.41	.04		
6		0	13	26	21	52	81	23	.60	0		
7		0	13	28	20	107	80	19	.86	0		
8		0	12	32	166	98	80	8.0	.70	0		
9		0	11	32	317	85	79	7.6	.60	0		
10		0	19	29	183	82	46	7.3	.51	0		
11		0	37	28	144	99	48	8.7	.46	0		
12		0	34	27	123	131	52	9.4	.42	0		
13		0	33	26	109	116	53	8.5	.38	0		
14		0	31	25	99	105	53	8.1	.35	0		
15		0	37	24	90	96	53	7.1	.33	0		
16		0	68	22	85	66	54	6.1	.32	0		
17		0	64	21	82	80	57	5.8	.30	0		
18		0	60	21	81	85	54	5.5	.23	0		
19		0	58	20	80	53	55	5.2	.29	0		
20		0	54	19	78	40	52	4.7	.38	0		
21		0	49	19	68	34	50	4.1	.33	0		
22		0	46	18	54	31	49	3.9	.30	0		
23		0	44	18	51	48	47	3.6	.24	0		
24		0	42	17	48	79	43	3.3	.23	0		
25		0	41	16	45	69	41	3.1	.18	0		
26		0	40	17	45	77	40	2.6	.17	0		
27		0	39	17	42	166	38	2.4	.17	0		
28		35	36	18	41	174	36	2.2	.14	0		
29		66	34	18	---	154	35	2.3	.23	0		
30		41	33	18	---	145	32	1.8	.27	0		
31		---	32	18	---	133	---	1.6	---	0		
TOTAL	0	142	1065	717	2171	2614	1817	288.9	14.30	0.52	0	0
MEAN	0	4.73	34.4	23.1	77.5	84.3	60.6	9.32	.48	.017	0	0
MAX	0	66	68	32	317	174	121	29	1.4	.26	0	0
MIN	0	0	11	16	17	31	32	1.6	.14	0	0	0
AC-FT	0	282	2110	1420	4310	5180	3600	573	28	1.0	0	0

CAL YR 1984	TOTAL	15422.46	MEAN	42.1	MAX	435	MIN	0	AC-FT	30590
WTR YR 1985	TOTAL	8829.72	MEAN	24.2	MAX	317	MIN	0	AC-FT	17510

11144500 SANTA MARGARITA LAKE NEAR POZO, CA

LOCATION.--Lat 35°20'14", long 120°30'08", in NW 1/4 NW 1/4 sec.8, T.30 S., R.14 E., San Luis Obispo County, Hydrologic Unit 18060005 at left end of dam on Salinas River, 2 mi upstream from Pilitas Creek, and 7.5 mi northwest of Pozo.

DRAINAGE AREA.--112 mi^2.

PERIOD OF RECORD.--December 1941 to current year. Prior to October 1967, published as Salinas Reservoir near Pozo.

REVISED RECORDS.--WSP 1715: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Mar. 9, 1942, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by concrete-arch dam, outlet closed Dec. 6, 1941. Usable capacity, 23,000 acre-ft between elevations 1,220.3 ft, bottom of outlet pipe and 1,300.7 ft spillway crest, NGVD. Additional storage of 400 acre-ft is not available for release. Water diverted at dam into pipeline to small reservoir 10 mi 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.

COOPERATION.--Elevations provided by County of San Luis Obispo.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 37,000 acre-ft, Jan. 25, 1969, elevation, 1,313.30 ft; minimum, 1,730 acre-ft, elevation, 1,242.5 ft, Nov. 6-10, 1943.

EXTREMES FOR CURRENT YEAR.--Maximum usable contents, 16,500 acre-ft, Oct. 1, elevation, 1,290.16 ft; minimum, 9,920 acre-ft, Sept. 30, elevation, 1,276.10 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)

1,220.3	0	1,245	2,000	1,270	7,700	1,295	19,300
1,225	198	1,250	2,800	1,275	9,500	1,300	22,400
1,230	470	1,255	3,800	1,280	11,500	1,310	30,700
1,235	840	1,260	4,900	1,285	13,800	1,320	41,000
1,240	1,350	1,265	6,200	1,290	16,400		

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16500	15800	15500	15200	14600	15100	15300	15000	14000	12800	11700	10800
2	16500	15800	15500	15200	14600	15100	15300	14900	14000	12800	11700	10800
3	16400	15800	15500	15100	14600	15000	15300	14900	13900	12800	11700	10700
4	16400	15800	15400	15100	14600	15000	15300	14900	13900	12700	11600	10700
5	16400	15700	15400	15100	14600	15000	15300	14800	13900	12700	11600	10700
6	16300	15700	15400	15000	14600	15000	15300	14800	13900	12600	11600	10600
7	16300	15700	15400	15000	14500	15100	15300	14800	13800	12600	11500	10600
8	16300	15700	15400	15000	14500	15100	15300	14800	13800	12600	11500	10600
9	16300	15700	15400	14900	14800	15100	15300	14700	13800	12500	11500	10500
10	16200	15700	15400	14900	15000	15100	15300	14700	13700	12500	11400	10500
11	16200	15700	15400	14900	15100	15100	15300	14700	13700	12500	11400	10500
12	16200	15700	15400	14900	15100	15100	15300	14600	13600	12400	11400	10400
13	16200	15700	15300	14900	15100	15100	15300	14600	13600	12400	11300	10400
14	16100	15700	15300	14800	15100	15100	15300	14600	13500	12400	11300	10400
15	16100	15700	15300	14800	15100	15100	15200	14600	13500	12300	11300	10400
16	16100	15600	15300	14800	15100	15100	15200	14500	13400	12300	11300	10300
17	16100	15600	15300	14800	15100	15100	15200	14500	13400	12200	11200	10300
18	16100	15600	15300	14800	15100	15100	15200	14500	13400	12200	11200	10300
19	16100	15600	15300	14800	15100	15100	15200	14400	13300	12200	11200	10200
20	16100	15600	15400	14700	15100	15100	15200	14400	13300	12100	11200	10200
21	16100	15600	15400	14700	15100	15100	15200	14400	13200	12100	11100	10200
22	16000	15600	15400	14700	15100	15100	15100	14400	13200	12100	11100	10200
23	16000	15500	15400	14700	15100	15100	15100	14300	13100	12000	11100	10100
24	16000	15600	15300	14700	15100	15100	15100	14300	13100	12000	11000	10100
25	16000	15500	15300	14700	15100	15100	15100	14300	13100	12000	11000	10100
26	15900	15500	15300	14700	15100	15100	15100	14200	13000	11900	11000	10000
27	15900	15500	15300	14700	15100	15100	15000	14200	13000	11900	11000	10000
28	15900	15500	15300	14600	15100	15100	15000	14200	12900	11900	10900	10000
29	15800	15500	15300	14600	---	15200	15000	14100	12900	11800	10900	10000
30	15800	15500	15200	14600	---	15300	15000	14100	12900	11800	10900	9940
31	15800	---	15200	14600	---	15300	---	14000	---	11700	10800	---
MAX	16500	15800	15500	15200	15100	15300	15300	15000	14000	12800	11700	10800
MIN	15800	15500	15200	14600	14600	15000	15000	14000	12900	11700	10800	9940
a	1288.94	1288.32	1287.81	1286.67	1287.51	1287.97	1287.34	1285.49	1283.03	1280.56	1278.36	1276.15
b	-700	-300	-300	-600	+500	+200	-300	-1000	-1100	-1200	-900	-860
c	484	494	423	442	450	478	594	689	806	705	669	640

CAL YR 1984 b -8100 c 6740
WTR YR 1985 b -6560 c 6870

a Elevation, in feet NGVD, at end of month.
b Change in contents, in acre-feet.
c Diversions, in acre-feet, for municipal supply furnished by county of San Luis Obispo.

11144600 SALINAS RIVER BELOW SALINAS DAM, NEAR POZO, CA

LOCATION.--Lat 35°20'07", long 120°30'10", in NW 1/4 NW 1/4 sec.8, T.30 S., R.14 E., San Luis Obispo County, Hydrologic Unit 18060005, on left bank 900 ft downstream from Salinas Dam, 2 mi upstream from Pilitas Creek, and 7.5 mi northwest of Pozo.

DRAINAGE AREA.--112 mi^2.

PERIOD OF RECORD.--October 1973 to current year.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Elevation of gage is 1,180 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharge: Apr. 2. Records fair. Flow completely regulated by Santa Margarita Lake (station 11144500), 900 ft upstream, and water diverted to Camp San Luis Obispo and city of San Luis Obispo.

AVERAGE DISCHARGE.--12 years, 29.6 ft^3/s, 21,450 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,160 ft^3/s, Feb. 10, 1978, gage height, 10.24 ft; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 41 ft^3/s, Nov. 30, gage height, 2.59 ft; minimum daily, 0.04 ft^3/s, Feb. 19-22, Apr. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	1.8	1.8	5.9	2.6	.19	.13	5.5	1.9	2.0	1.2	3.0
2	5.5	1.9	1.8	11	2.5	.17	.25	5.2	1.9	2.1	.64	3.0
3	5.5	2.4	1.8	14	2.5	.15	.12	5.1	2.3	2.1	.55	3.0
4	5.6	2.2	1.8	14	2.6	.15	.09	5.4	1.8	2.0	.57	3.1
5	5.6	2.1	1.8	14	2.6	.16	.07	5.6	3.4	2.0	.56	3.1
6	3.6	2.1	1.8	13	2.4	.22	.05	5.5	4.7	2.0	.50	1.9
7	2.6	2.1	1.8	13	2.4	.45	.05	5.0	4.7	2.3	.60	1.3
8	2.6	2.2	1.8	13	2.6	.18	.06	5.0	4.6	2.7	.43	1.3
9	2.6	2.1	1.8	14	1.4	.15	.05	4.8	4.6	2.6	.43	1.3
10	2.9	2.1	1.9	7.9	.18	.15	.60	3.4	4.6	2.7	.43	1.5
11	2.6	2.2	4.5	3.9	.12	.15	.16	3.3	4.9	2.6	.43	1.6
12	2.5	2.2	6.1	3.9	.12	.12	.11	3.3	6.6	2.5	.44	1.8
13	2.6	2.2	5.8	3.9	.10	.18	.10	3.1	6.8	3.1	.46	1.9
14	2.5	2.4	5.9	4.0	.09	.17	.10	2.4	6.2	3.7	.52	1.9
15	2.6	2.2	6.0	3.8	.09	.07	.12	2.7	4.4	3.8	.45	1.9
16	2.7	2.2	5.9	2.9	.06	.05	.08	2.8	4.8	3.7	.47	1.9
17	2.6	2.1	6.2	2.4	.05	.06	.07	2.3	4.6	4.1	.46	1.9
18	2.6	2.2	5.9	2.5	.05	.07	.07	2.4	4.3	4.2	.47	1.7
19	2.6	2.2	5.9	2.5	.04	.07	.09	2.4	4.4	4.2	.46	1.1
20	2.6	2.2	5.9	2.5	.04	.09	.07	2.6	4.4	4.2	.83	1.1
21	2.6	2.5	5.9	2.5	.04	.22	.07	2.2	4.3	4.0	.97	1.1
22	2.6	1.8	5.9	2.4	.04	.15	.08	2.0	4.2	3.6	.96	1.1
23	2.8	1.8	5.9	2.4	.06	.11	.05	2.1	4.2	3.6	1.0	1.1
24	2.6	1.8	5.8	2.4	.06	.11	.06	2.1	3.8	3.5	1.0	1.2
25	2.7	1.7	5.7	2.4	.07	.11	.12	2.0	2.2	3.5	1.0	.86
26	2.7	1.7	5.8	2.4	.29	.20	.24	2.0	2.3	3.2	1.0	.85
27	2.7	1.8	5.9	2.4	.21	.21	.24	2.1	2.5	2.1	1.0	.78
28	2.6	1.8	5.9	2.4	.20	.17	.15	2.1	2.2	1.8	1.4	.76
29	2.6	1.8	5.9	2.4	---	.15	.04	2.2	2.1	1.6	1.6	.76
30	3.0	2.5	5.9	2.7	---	.13	2.7	2.0	2.1	1.6	2.5	.76
31	1.8	---	5.9	2.5	---	.13	---	1.9	---	1.5	3.0	---
TOTAL	95.5	62.3	140.7	179.0	23.51	4.69	6.19	100.5	115.8	88.6	26.33	48.57
MEAN	3.08	2.08	4.54	5.77	.84	.15	.21	3.24	3.86	2.86	.85	1.62
MAX	5.6	2.5	6.2	14	2.6	.45	2.7	5.6	6.8	4.2	3.0	3.1
MIN	1.8	1.7	1.8	2.4	.04	.05	.04	1.9	1.8	1.5	.43	.76
AC-FT	189	124	279	355	47	9.3	12	199	230	176	52	96

CAL YR 1984 TOTAL 1526.43 MEAN 4.17 MAX 91 MIN .01 AC-FT 3030
WTR YR 1985 TOTAL 891.69 MEAN 2.44 MAX 14 MIN .04 AC-FT 1770

11147070 SANTA RITA CREEK NEAR TEMPLETON, CA

LOCATION.--Lat 35°31'26", long 120°45'54", in Asuncion Grant, San Luis Obispo County, Hydrologic Unit 18060005, on left bank 1.6 mi upstream from mouth, and 4 mi west of Templeton.

DRAINAGE AREA.--18.2 mi^2.

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

GAGE.--Water-stage recorder. Elevation of gage is 860 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Some regulation and pumping above station.

AVERAGE DISCHARGE.--24 years, 15.0 ft^3/s, 10,870 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,060 ft^3/s, Jan. 19, 1969, gage height, 11.12 ft in gage well, 11.75 ft from floodmarks, from rating curve extended above 1,300 ft^3/s, on basis of slope-area measurement of maximum flow; no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 8	1630	*1,580	*7.56				

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	1.4	2.3	1.6	3.4	20	1.6	.43			
2		0	1.1	2.2	2.8	3.4	8.9	1.5	.40			
3		0	1.1	2.2	2.2	3.1	7.4	1.5	.49			
4		0	.98	2.2	1.8	2.7	6.6	1.4	.46			
5		0	.89	2.2	1.6	2.8	5.8	1.3	.29			
6		0	.99	2.2	1.6	4.5	5.3	1.3	.21			
7		0	.99	2.7	1.6	39	5.0	1.3	.14			
8		0	.84	8.0	387	9.9	4.6	1.3	.09			
9		0	.83	3.9	149	7.0	4.3	1.3	.06			
10		0	12	2.9	47	7.0	3.9	1.2	.06			
11		0	4.8	2.5	28	14	3.6	1.1	.05			
12		0	2.4	2.4	20	13	3.3	1.1	.04			
13		0	2.1	2.2	15	9.3	3.0	.98	.04			
14		0	1.7	2.2	12	8.0	2.7	.94	.03			
15		0	69	2.2	10	7.1	2.7	.92	.03			
16		0	57	1.9	8.9	6.5	2.7	.95	.03			
17		0	15	1.9	7.8	6.0	2.7	.90	.03			
18		0	19	1.9	7.0	7.5	2.5	.88	.03			
19		0	39	1.9	6.4	6.1	2.3	.82	.02			
20		0	44	1.9	5.9	5.5	2.0	.82	.02			
21		0	21	1.9	5.3	5.0	3.1	.70	.02			
22		0	12	1.7	4.9	4.6	3.1	.60	.02			
23		0	8.4	1.6	4.6	4.2	2.6	.54	.02			
24		1.1	6.3	1.6	4.2	4.2	2.3	.51	.02			
25		1.4	5.1	1.6	4.2	3.8	2.1	.49	.01			
26		.56	4.2	1.6	3.8	6.2	2.0	.57	0			
27		3.2	4.0	1.6	3.8	119	1.8	.61	0			
28		68	3.3	1.8	3.5	63	1.8	.61	0			
29		6.1	2.9	2.3	---	34	1.7	.51	0			
30		2.3	2.6	1.8	---	23	1.7	.43	0			
31		---	2.5	1.6	---	20	---	.36	---			
TOTAL	0	82.66	347.42	70.9	751.5	452.8	121.5	29.04	3.04	0	0	0
MEAN	0	2.76	11.2	2.29	26.8	14.6	4.05	.94	.10	0	0	0
MAX	0	68	69	8.0	387	119	20	1.6	.49	0	0	0
MIN	0	0	.83	1.6	1.6	2.7	1.7	.36	0	0	0	0
AC-FT	0	164	689	141	1490	898	241	58	6.0	0	0	0

CAL YR 1984 TOTAL 933.71 MEAN 2.55 MAX 69 MIN 0 AC-FT 1850
WTR YR 1985 TOTAL 1858.86 MEAN 5.09 MAX 387 MIN 0 AC-FT 3690

11147500 SALINAS RIVER AT PASO ROBLES, CA

LOCATION.--Lat 35°37'43", long 120°41'00", in Paso de Robles Grant, San Luis Obispo County, Hydrologic Unit 18060005, on left bank at upstream side of 13th Street Bridge in Paso Robles, and 3.5 mi upstream from Huerhuero Creek.

DRAINAGE AREA.--390 mi^2.

PERIOD OF RECORD.--October 1939 to September 1965, October 1969 to current year.

REVISED RECORDS.--WSP 981: 1942.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 670.61 ft above National Geodetic Vertical Datum of 1929. Prior to June 14, 1951, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Dec. 20-28 and Jan. 14-20. Records good except for periods of estimated record, which are fair. Low flows regulated by Santa Margarita Lake (station 11144500) 32 mi upstream beginning in 1941. Small diversions above station.

AVERAGE DISCHARGE.--42 years, 99.1 ft^3/s, 71,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,500 ft^3/s, Feb. 16, 1980, gage height, 15.99 ft, from rating curve extended above 10,300 ft^3/s; maximum gage height, 17.24 ft, Apr. 3, 1958; no flow for long periods in each year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 25, 1969, reached a stage of 23.8 ft from floodmarks, discharge, 28,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 8	2200	*3,160	*9.40				

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	1.5	2.7	7.5	91	.44				
2			0	1.8	5.1	6.9	69	.44				
3			0	1.7	5.7	6.1	63	.57				
4			0	1.8	5.3	5.2	55	1.3				
5			0	1.7	4.0	5.4	48	2.2				
6			0	1.9	3.3	10	42	.69				
7			0	3.0	3.3	66	36	.61				
8			0	3.5	494	63	38	.52				
9			0	4.7	795	38	32	.41				
10			0	5.4	199	35	24	.26				
11			0	1.6	113	38	17	.24				
12			0	3.6	75	60	19	.18				
13			0	4.3	55	61	15	.13				
14			0	3.5	36	45	9.8	.16				
15			0	3.0	24	35	5.5	.25				
16			0	2.7	21	28	4.8	.11				
17			0	2.6	27	24	3.6	.05				
18			0	2.6	37	24	3.9	.04				
19			0	2.7	30	26	3.3	.03				
20			1.0	2.7	27	24	3.0	.01				
21			2.0	2.8	19	22	2.1	0				
22			3.0	3.2	14	19	1.7	0				
23			5.0	3.2	13	18	1.3	0				
24			5.0	2.9	12	17	1.0	0				
25			4.0	2.8	11	14	.68	0				
26			3.5	3.0	10	12	.46	0				
27			3.6	3.1	9.0	218	.41	0				
28			3.2	3.2	8.2	266	.44	0				
29			2.5	3.9	---	187	.66	0				
30			2.1	3.2	---	138	.51	0				
31			2.2	3.3	---	105	---	0				
TOTAL	0	0	37.1	90.9	2058.6	1624.1	592.16	8.64	0	0	0	0
MEAN	0	0	1.20	2.93	73.5	52.4	19.7	.28	0	0	0	0
MAX	0	0	5.0	5.4	795	266	91	2.2	0	0	0	0
MIN	0	0	0	1.5	2.7	5.2	.41	0	0	0	0	0
AC-FT	0	0	74	180	4080	3220	1170	17	0	0	0	0

CAL YR 1984	TOTAL	6440.77	MEAN	17.6	MAX	303	MIN	0	AC-FT 12780
WTR YR 1985	TOTAL	4411.50	MEAN	12.1	MAX	795	MIN	0	AC-FT 8750

11148500 ESTRELLA RIVER NEAR ESTRELLA, CA

LOCATION.--Lat 35°43'02", long 120°38'21", in NW 1/4 NW 1/4 sec.36, T.25 S., R.12 E., San Luis Obispo County, Hydrologic Unit 18060004, on right bank 0.2 mi downstream from mouth of Ranchito Canyon, and 1.9 mi northwest of Estrella.

DRAINAGE AREA.--922 mi^2, 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, crest-stage gage, and concrete control. Datum of gage is 671.59 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--No estimated daily discharges. Records fair. No regulation; pumpage from wells along river for irrigation above station.

AVERAGE DISCHARGE.--31 years, 28.0 ft^3/s, 20,290 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,500 ft^3/s, Feb. 24, 1969, gage-height, 10.4 ft from floodmarks, by slope-area measurement of maximum flow; maximum gage height, 10.9 ft, Jan. 25, 1969, from floodmarks; no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 13	0300	*14.0	*1.60				

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						0	4.6					
2						0	0					
3						0	0					
4						0	0					
5						0	0					
6						0	0					
7						0	0					
8						0	0					
9						0	0					
10						5.5	0					
11						9.1	0					
12						4.8	0					
13						7.4	0					
14						5.8	0					
15						6.9	0					
16						6.6	0					
17						.25	0					
18						4.7	0					
19						5.1	0					
20						6.3	0					
21						2.8	0					
22						0	0					
23						0	0					
24						0	0					
25						0	0					
26						0	0					
27						0	0					
28						6.0	0					
29						9.4	0					
30						8.6	0					
31						7.0	---					
TOTAL	0	0	0	0	0	96.25	4.6	0	0	0	0	0
MEAN	0	0	0	0	0	3.10	.15	0	0	0	0	0
MAX	0	0	0	0	0	9.4	4.6	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	191	9.1	0	0	0	0	0

CAL YR 1984	TOTAL	652.73	MEAN	1.78	MAX	22	MIN	0	AC-FT	1290
WTR YR 1985	TOTAL	100.85	MEAN	.28	MAX	9.4	MIN	0	AC-FT	200

11148900 NACIMIENTO RIVER BELOW SAPAQUE CREEK, NEAR BRYSON, CA

LOCATION.--Lat 35°47'19", long 121°05'34", in SW 1/4 NE 1/4 sec.3, T.25 S., R.8 E., San Luis Obispo County, Hydrologic Unit 18060005, on left bank just downstream from Sapaque Creek, and 1.4 mi south of Bryson.

DRAINAGE AREA.--162 mi^2.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 800 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. No storage or diversion upstream from station.

AVERAGE DISCHARGE.--14 years, 216 ft^3/s, 156,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 57,000 ft^3/s, Jan. 16, 1978, gage height, 32.00 ft, from rating curve extended above 7,900 ft^3/s on basis of slope-area measurement of peak flow; no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 8	1645	*10,400	*18.61				

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	0	91	84	31	47	198	29	11	1.1		
2	0	0	73	75	32	45	168	28	11	.68		
3	0	0	101	71	35	46	145	27	11	.32		
4	0	0	91	66	32	42	127	26	11	0		
5	0	0	78	60	29	46	111	26	11	0		
6	0	0	73	58	28	66	100	25	9.2	0		
7	0	.02	63	72	28	403	93	25	8.3	0		
8	0	.16	56	144	3320	176	86	25	7.8	0		
9	0	0	51	121	1380	117	79	25	7.1	0		
10	0	0	238	101	537	117	73	23	6.5	0		
11	0	0	178	90	350	300	69	23	6.0	0		
12	0	.04	119	82	256	267	66	23	5.6	0		
13	0	.13	92	77	202	189	62	22	5.3	0		
14	0	28	78	71	167	155	58	21	5.0	0		
15	0	18	449	66	140	132	54	19	4.4	0		
16	.01	76	624	62	119	113	53	19	4.1	0		
17	.01	114	252	57	106	100	54	18	3.6	0		
18	0	54	425	54	94	108	55	18	3.0	0		
19	0	37	910	52	86	98	51	18	2.9	0		
20	0	28	845	49	80	88	48	17	2.5	0		
21	0	23	420	47	74	80	48	17	2.5	0		
22	0	19	286	45	67	75	48	15	2.5	0		
23	0	16	217	42	63	68	45	13	2.3	0		
24	0	37	174	41	60	66	41	13	2.3	0		
25	0	70	145	39	57	61	38	12	1.8	0		
26	0	44	137	38	55	69	37	11	1.3	0		
27	0	314	149	36	52	896	36	11	1.8	0		
28	0	1410	129	36	49	680	34	12	1.7	0		
29	0	210	112	38	---	428	32	13	1.6	0		
30	0	123	98	35	---	313	31	12	1.3	0		
31	0	---	92	32	---	238	---	11	---	0		
TOTAL	0.08	2621.35	6846	1941	7529	5629	2140	597	155.4	2.10	0	0
MEAN	.003	87.4	221	62.6	269	182	71.3	19.3	5.18	.068	0	0
MAX	.06	1410	910	144	3320	896	198	29	11	1.1	0	0
MIN	0	0	51	32	28	42	31	11	1.3	0	0	0
AC-FT	.2	5200	13580	3850	14930	11170	4240	1180	308	4.2	0	0

CAL YR 1984 TOTAL 16981.57 MEAN 46.4 MAX 1410 MIN 0 AC-FT 33680
WTR YR 1985 TOTAL 27460.93 MEAN 75.2 MAX 3320 MIN 0 AC-FT 54470

11148900 NACIMIENTO RIVER BELOW SAPAQUE CREEK, NEAR BRYSON, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972 to current year. Published as station 11148800 "near Bryson" in water years 1958-59, 1961-71.
WATER TEMPERATURES: Water years 1972-74.
SEDIMENT RECORDS: Water years 1972 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1971 to September 1974.
SEDIMENT RECORDS: October 1971 to September 1974.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
DEC					
17...	1155	246	7.5	1	0.66
JAN					
14...	1310	72	6.5	3	0.58
FEB					
07...	1145	27	7.0	0	0.0
MAR					
04...	1335	43	11.0	0	0.0
APR					
04...	1250	124	18.0	1	0.33
30...	1400	31	23.5	2	0.17
JUN					
06...	1030	9.2	24.5	3	0.08

PARTICLE SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	STREAM-FLOW, INSTAN-TANEOUS (CFS)	STREAM WIDTH (FT)	SEDI-MENT DIS-CHARGE, BEDLOAD (TONS/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM
DEC												
17...	1210	7.5	26	246	132	12	2	29	87	98	100	--
JAN												
14...	1335	6.5	18	72	58.0	0.22	3	21	61	77	88	100
FEB												
07...	1145	7.0	--	27	51.0	0.0	--	--	--	--	--	--
MAR												
04...	1335	11.0	--	43	72.0	0.0	--	--	--	--	--	--
APR												
30...	1400	23.5	--	31	56.0	0.0	--	--	--	--	--	--
JUN												
06...	1030	24.5	--	9.2	40.0	0.0	--	--	--	--	--	--

RESERVOIRS IN SALINAS RIVER BASIN, CA

11149300 LAKE NACIMIENTO (formerly published as Nacimiento Reservoir).--Lat 35°45'29", long 120°53'01", in NW 1/4 sec.15, T.25 S., R.10 E., San Luis Obispo County, Hydrologic Unit 18060005, at right end of dam on Nacimiento River, 8.6 mi southwest of Bradley, and 12.3 mi upstream from mouth. DRAINAGE AREA, 325 mi^2. PERIOD OF RECORD, February 1957 to current year. Monthend contents prior to October 1970, published in WSP 2129. Prior to October 1978, published as "Nacimiento Reservoir." GAGE, nonrecording gage read once daily. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Monterey County Flood Control and Water Conservation District).

Reservoir is formed by earthfill dam completed in 1957. Total capacity, 350,000 acre-ft; usable capacity, 340,000 acre-ft between elevations 670.0 ft, outlet and 800.0 ft, crest of spillway. Dead storage, 10,000 acre-ft. 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.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 374,500 acre-ft, Apr. 7, 1958, elevation, 804.7 ft; minimum observed since appreciable storage was attained, 10,910 acre-ft, Oct. 11, 1960, elevation, 670.8 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 173,900 acre-ft, Apr. 9-15, elevation, 759.90 ft; minimum observed, 43,450 acre-ft, Sept. 30, elevation, 709.30 ft.

11150100 LAKE SAN ANTONIO.--Lat 35°47'55", long 120°53'02", in SW 1/4 sec.34, T.24 S., R.10 E., Monterey County, Hydrologic Unit 18060005, at dam on San Antonio River, 0.7 mi upstream from Sulphur Canyon, and 6.4 mi southwest of Bradley. DRAINAGE AREA, 323 mi^2. PERIOD OF RECORD, December 1965 to current year. Monthend contents prior to October 1970, published in WSP 2129. GAGE, nonrecording gage read once daily. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Monterey County Flood Control and Water Conservation District).

Reservoir is formed by earthfill dam completed in 1965. Total capacity, 350,000 acre-ft; usable capacity, 330,000 acre-ft between elevations 662.0 ft, minimum pool and 780.0 ft, crest of spillway. Dead storage, 20,000 acre-ft. 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.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 365,400 acre-ft, Mar. 5, 1983, elevation, 782.65 ft; minimum since appreciable storage was attained, 22,000 acre-ft, Dec. 13-17, 1977, elevation, 664.50 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 240,700 acre-ft, Apr.10-24, elevation, 758.90 ft; minimum, 206,700 acre-ft, Sept. 30, elevation, 750.80 ft.

MONTHEND CONTENTS, IN ACRE-FEET, AT 0800, OCTOBER 1984 TO SEPTEMBER 1985

Date	Lake Nacimiento	Lake San Antonio
Sept. 30, 1984	122,400	232,000
Oct. 31.....	106,700	227,800
Nov. 30.....	111,200	226,100
Dec. 31.....	131,200	228,600
Jan. 31, 1985..	135,800	230,300
Feb. 28.....	153,700	234,600
Mar. 31.....	170,700	239,100
Apr. 30.....	164,600	238,700
May 31.....	143,700	234,200
June 30.....	122,300	228,600
July 31.....	93,760	220,800
Aug. 31.....	65,090	212,200
Sept. 30.....	43,450	206,700

11149400 NACIMIENTO RIVER BELOW NACIMIENTO DAM, NEAR BRADLEY, CA

LOCATION.--Lat 35°45'41", long 120°51'16", in NE 1/4 NE 1/4 sec.14, T.25 S., R.10 E., San Luis Obispo County, Hydrologic Unit 18060005, Camp Roberts Military Reservation, on left bank 2.2 mi downstream from Nacimiento Dam, and 7.6 mi southwest of Bradley.

DRAINAGE AREA.--329 mi^2.

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

REVISED RECORDS.--WDR CA-84-2: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 597 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 27 to Dec. 14 and Jan. 12 to Feb. 4. Records good except for periods of estimated daily records, which are fair. Flow regulated by Nacimiento Dam (station 11149300), 2.2 mi upstream. No diversion above station.

AVERAGE DISCHARGE (unadjusted).--28 years, 301 ft^3/s, 218,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,340 ft^3/s, Feb. 25, 1969, gage height, 10.92 ft; no flow for many days in 1958-63, 1965 and 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 554 ft^3/s, May 1, gage height, 3.88 ft; minimum daily, 3.9 ft^3/s, Feb. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	385	217	6.8	4.0	4.2	16	16	547	523	451	429	437
2	385	217	9.0	5.0	4.1	17	16	514	523	484	429	437
3	385	217	6.8	6.0	4.1	16	16	371	477	484	429	437
4	343	217	6.6	6.5	4.3	16	19	370	336	483	428	437
5	325	217	6.8	5.6	4.2	16	16	369	392	481	428	403
6	323	156	6.9	5.8	3.9	17	16	366	377	481	426	376
7	321	106	6.8	6.6	5.2	17	16	366	343	481	425	377
8	321	106	8.0	6.0	18	16	16	366	347	480	424	376
9	321	89	24	4.6	18	17	16	366	348	479	421	375
10	321	25	19	5.0	17	17	29	365	372	478	419	374
11	324	23	16	4.6	17	17	84	364	395	476	417	374
12	325	23	14	4.5	17	17	114	364	451	475	417	374
13	323	25	13	4.5	17	17	114	363	468	475	388	376
14	323	23	15	4.4	17	17	115	362	458	474	362	375
15	297	23	24	4.4	17	17	116	394	425	472	362	375
16	214	23	21	4.4	17	17	116	401	425	471	360	376
17	214	23	20	4.4	17	17	168	362	425	471	359	375
18	145	21	22	4.4	17	17	230	362	424	471	358	374
19	106	21	24	4.4	17	17	331	362	423	471	358	374
20	106	22	21	4.3	17	17	441	349	425	469	382	374
21	106	22	14	4.3	17	16	443	319	423	467	437	374
22	106	21	9.6	4.3	17	16	397	362	419	441	437	374
23	106	22	7.2	4.3	17	16	401	362	417	510	437	373
24	106	21	5.9	4.3	16	16	452	361	417	504	406	374
25	106	21	5.3	4.3	16	17	490	359	455	499	386	372
26	142	22	5.5	4.3	16	16	546	358	485	494	437	370
27	220	20	5.1	4.2	16	17	545	358	484	487	437	370
28	220	15	4.6	4.2	16	16	546	358	484	442	437	369
29	219	9.5	4.6	4.2	---	16	547	182	484	376	437	368
30	217	7.4	4.6	4.2	---	16	546	123	449	396	437	366
31	217	---	4.1	4.2	---	16	---	453	---	429	437	---
TOTAL	7572	1974.9	361.2	146.2	384.0	513	6918	11278	12874	14552	12746	11486
MEAN	244	65.8	11.7	4.72	13.7	16.5	231	364	429	469	411	383
MAX	385	217	24	6.6	18	17	547	547	523	510	437	437
MIN	106	7.4	4.1	4.0	3.9	16	16	123	336	376	358	366
AC-FT	15020	3920	716	290	762	1020	13720	22370	25540	28860	25280	22780

CAL YR 1984 TOTAL 85169 MEAN 233 MAX 2910 MIN 4.1 AC-FT 168900
WTR YR 1985 TOTAL 80805.3 MEAN 221 MAX 547 MIN 3.9 AC-FT 160300

11149900 SAN ANTONIO RIVER NEAR LOCKWOOD, CA

LOCATION.--Lat 35°53'48", long 121°05'14", in Los Ojitos Grant, Monterey County, Hydrologic Unit 18060005, on downstream side of highway bridge, 0.4 mi upstream from Tule Canyon, and 3.3 mi south of Lockwood.

DRAINAGE AREA.--217 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to current year.

REVISED RECORDS.--WDR CA-82-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 795.00 ft (revised) above National Geodetic Vertical Datum of 1929. Prior to Aug. 28, 1975, at datum 5.00 ft higher.

REMARKS.--Estimated daily discharges: Jan. 7-29, Feb. 13 to Mar. 4, Mar. 13-25, and Mar. 30 to Apr. 12. Records fair except for periods of estimated daily discharges, which are poor. No regulation; some pumping above station.

AVERAGE DISCHARGE.--20 years, 116 ft^3/s, 84,040 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,000 ft^3/s, Jan. 26, 1969, gage height, 8.25 ft, datum then in use; maximum gage height, 12.64 ft, from floodmarks, Jan. 26, 1983; no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 8	1945	*2,360	*8.90				

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	39	28	21	31	100	25	1.3			
2		0	39	25	21	30	86	23	.98			
3		0	40	24	20	29	77	20	.97			
4		0	36	34	20	30	69	19	.71			
5		0	31	24	20	30	63	18	.74			
6		0	33	25	20	35	59	16	.84			
7		0	31	32	19	108	54	15	.57			
8		0	30	50	386	137	51	15	.24			
9		0	31	42	530	109	48	14	0			
10		0	44	39	250	103	45	13	0			
11		0	55	36	184	119	43	12	0			
12		0	37	35	146	143	40	12	0			
13		0	38	33	120	120	39	12	0			
14		0	35	32	105	98	38	10	0			
15		0	40	30	94	82	36	9.5	0			
16		0	137	29	84	70	34	8.7	0			
17		0	96	28	74	62	37	8.5	0			
18		0	79	28	65	56	39	9.0	0			
19		0	108	27	58	49	36	8.4	0			
20		0	161	26	53	45	34	7.6	0			
21		0	121	26	47	43	34	6.8	0			
22		0	91	26	42	41	33	5.6	0			
23		0	70	25	40	40	32	5.0	0			
24		0	59	24	38	39	30	4.3	0			
25		0	49	23	36	38	28	3.7	0			
26		0	46	23	34	46	27	3.3	0			
27		0	51	23	33	204	27	2.9	0			
28		294	48	22	32	197	24	2.4	0			
29		122	41	27	---	170	24	2.1	0			
30		54	35	23	---	141	26	1.7	0			
31		---	28	22	---	120	---	1.4	---			
TOTAL	0	470	1779	891	2592	2565	1313	314.9	6.35	0	0	0
MEAN	0	15.7	57.4	28.7	92.6	82.7	43.8	10.2	.21	0	0	0
MAX	0	294	161	50	530	204	100	25	1.3	0	0	0
MIN	0	0	28	22	19	29	24	1.4	0	0	0	0
AC-FT	0	932	3530	1770	5140	5090	2600	625	13	0	0	0

CAL YR 1984	TOTAL	10442.42	MEAN	28.5	MAX	314	MIN	0	AC-FT	20710
WTR YR 1985	TOTAL	9931.25	MEAN	27.2	MAX	530	MIN	0	AC-FT	19700

11149900 SAN ANTONIO RIVER NEAR LOCKWOOD, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.
WATER TEMPERATURES: Water years 1966-73.
SEDIMENT RECORDS: Water years 1966 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1965 to September 1973.
SEDIMENT RECORDS: October 1965 to September 1974.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
DEC					
13...	1215	36	12.0	4	0.39
JAN					
14...	1015	31	7.5	1	0.08
FEB					
07...	0920	19	8.5	3	0.15
MAR					
04...	1000	31	11.0	6	0.50
APR					
04...	0940	77	15.5	11	2.3
29...	1320	25	24.5	5	0.34
JUN					
05...	1410	1.1	28.5	1	0

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	STREAM-FLOW, INSTAN-TANEOUS (CFS)	STREAM WIDTH (FT)	SEDI-MENT DIS-CHARGE, BEDLOAD (TONS/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
DEC							
13...	1210	12.0	21	36	64.0	116	1
JAN							
14...	1035	7.5	22	31	67.0	32	1
FEB							
07...	0935	8.5	23	19	69.0	27	1
MAR							
04...	1005	11.0	22	31	69.0	44	1
APR							
04...	0950	15.5	22	77	111	109	1
29...	1410	24.5	25	25	80.0	5.7	1

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM
DEC							
13...	15	55	84	94	98	100	--
JAN							
14...	22	70	91	98	100	--	--
FEB							
07...	22	67	91	97	99	100	--
MAR							
04...	19	60	79	85	87	93	100
APR							
04...	21	56	82	93	98	100	--
29...	18	61	87	95	98	100	--

11150500 SALINAS RIVER NEAR BRADLEY, CA

LOCATION.--Lat 35°55'49", long 120°52'04", in SW 1/4 NW 1/4 sec.14, T.23 S., R.10 E., Monterey County, Hydrologic Unit 18060005, on left bank 6 mi northwest of Bradley, and 7 mi downstream from San Antonio River.

DRAINAGE AREA.--2,535 mi^2.

PERIOD OF RECORD.--October 1948 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1285: 1950. WDR CA-84-2: 1978.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 442.69 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Estimated daily discharges: Nov. 8 to Dec. 13. Records good except for estimated daily discharges, which are poor. Flow regulated by Santa Margarita Lake (station 11144500), Lake Nacimiento, formerly Nacimiento Reservoir (station 11149300) beginning in February 1957, and Lake San Antonio (station 11150100) beginning in December 1965. Several small diversions above station.

AVERAGE DISCHARGE (unadjusted).--37 years, 500 ft^3/s, 362,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 117,000 ft^3/s, Feb. 24, 1969, gage height, 20.34 ft, from floodmarks; no flow at times in 1951, 1954-55, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 787 ft^3/s, Apr. 29, gage height, 5.73 ft; minimum daily, 13 ft^3/s, Jan. 25, 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	478	259	35	21	29	22	113	630	657	606	608	585
2	484	259	33	20	29	22	102	614	582	575	640	594
3	467	262	32	19	27	22	96	525	583	575	636	574
4	430	262	31	20	25	22	80	428	446	583	598	572
5	344	253	31	21	22	22	69	424	385	643	584	592
6	345	261	30	21	22	24	60	419	458	640	614	560
7	351	197	30	22	22	41	51	410	393	612	628	565
8	354	170	29	23	27	48	45	407	387	606	632	565
9	359	140	33	22	97	67	40	409	367	622	631	557
10	364	120	37	21	379	66	36	409	352	621	628	543
11	364	106	43	21	193	59	34	446	463	596	616	473
12	376	94	48	19	120	54	82	467	590	605	594	444
13	395	86	50	19	97	58	98	453	505	624	583	422
14	398	79	41	19	65	67	101	401	543	645	519	406
15	396	75	50	18	50	63	101	406	507	653	536	408
16	314	70	56	18	52	52	98	451	516	639	542	469
17	276	66	47	18	52	47	96	437	499	612	517	425
18	263	63	50	18	49	47	162	448	469	583	515	409
19	188	60	56	17	44	43	207	446	472	589	528	409
20	150	58	55	16	41	43	357	448	472	612	548	400
21	134	56	49	16	35	42	405	437	465	614	612	371
22	143	54	43	16	34	37	418	441	467	556	647	382
23	152	52	39	15	33	37	345	447	485	531	648	391
24	152	51	34	14	31	34	417	438	493	599	625	402
25	152	50	33	13	29	34	487	422	501	613	555	401
26	151	48	33	13	29	31	715	411	597	624	602	385
27	212	47	30	16	26	34	739	403	563	624	552	373
28	252	46	29	16	25	90	759	425	569	601	532	362
29	256	43	25	17	---	213	774	418	586	512	570	362
30	255	37	22	24	---	192	730	413	590	494	566	364
31	257	---	22	28	---	149	---	474	---	559	563	---
TOTAL	9212	3424	1176	581	1684	1782	7817	13807	14962	18568	18169	13765
MEAN	297	114	37.9	18.7	60.1	57.5	261	445	499	599	586	459
MAX	484	262	56	28	379	213	774	630	657	653	648	594
MIN	134	37	22	13	22	22	34	401	352	494	515	362
AC-FT	18270	6790	2330	1150	3340	3530	15510	27390	29680	36830	36040	27300

CAL YR 1984 TOTAL 138760 MEAN 379 MAX 3520 MIN 22 AC-FT 275200
WTR YR 1985 TOTAL 104947 MEAN 288 MAX 774 MIN 13 AC-FT 208200

11151300 SAN LORENZO CREEK BELOW BITTERWATER CREEK, NEAR KING CITY, CA

LOCATION.--Lat 36°16'05", long 121°03'55", in NE 1/4 sec.23, T.19 S., R.8 E., Monterey County, Hydrologic Unit 18060005, on left bank 1.3 mi downstream from Bitterwater Creek, 5 mi northeast of King City, and 10 mi upstream from mouth.

DRAINAGE AREA.--233 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is 431.64 ft above National Geodetic Vertical Datum of 1929. October 1958 to Apr. 24, 1967, at site 500 ft upstream at datum 5.00 ft higher. Apr. 25, 1967, to July 12, 1981, at site 200 ft upstream.

REMARKS.--Estimated daily discharges: Apr. 22 to May 8. Records fair except for estimated daily discharges, which are poor. No regulation; small diversions above station by ranchers and sand processing plant.

AVERAGE DISCHARGE.--27 years, 14.9 ft^3/s, 10,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,500 ft^3/s, revised, Jan. 25, 1969, gage height, 15.33 ft, in gage well, 16.2 ft, from floodmarks, from rating curve extended above 7,100 ft^3/s on basis of slope area measurement of peak flow; no flow many days in 1961 and 1973.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec. 16	0700	*122	*4.07				

Minimum daily, 0.27 ft^3/s, July 9.

REVISIONS.--The maximum discharge for the period of record has been revised to 11,500 ft^3/s, Jan. 25, 1969, gage height, 15.33 ft, in gage well, 16.2 ft, from floodmarks, superseding the figure published in the reports for 1969-84.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	2.1	6.2	5.1	5.4	5.8	4.8	2.3	1.3	.83	.59	.54
2	2.3	2.2	4.9	4.7	5.4	6.6	4.1	2.0	1.3	.63	.61	.50
3	2.4	2.3	10	4.8	5.8	8.2	3.6	1.9	1.2	.48	.65	.62
4	2.5	1.8	15	4.8	6.3	8.1	3.4	1.8	1.2	.40	.57	.83
5	2.7	1.8	11	4.8	6.4	7.6	3.4	1.8	1.1	.38	.56	1.1
6	2.6	1.9	12	4.8	6.1	8.3	3.4	1.7	.98	.34	.56	1.2
7	2.4	1.9	10	5.3	5.7	14	3.6	1.8	.95	.32	.64	1.3
8	2.3	4.4	6.8	8.6	6.4	14	3.4	1.7	.94	.31	.70	1.4
9	2.4	2.8	5.6	7.6	11	11	3.3	1.8	.92	.27	.75	1.6
10	2.5	2.3	14	6.4	10	10	3.1	1.6	.93	.28	.73	1.7
11	5.0	2.0	20	5.4	8.4	11	3.1	1.9	.83	.28	.74	1.7
12	5.8	2.3	10	5.2	7.6	15	3.1	1.7	.89	.29	.80	1.6
13	3.6	8.5	7.1	5.2	7.3	14	2.9	1.5	1.0	.37	.93	1.6
14	2.7	4.4	5.7	4.9	7.1	8.3	2.8	1.3	1.0	.41	1.1	1.3
15	2.4	2.5	8.0	5.2	6.9	7.5	2.6	1.2	1.0	.40	1.1	1.1
16	2.7	10	70	5.2	6.6	6.9	2.8	1.2	1.1	.40	1.1	1.1
17	5.0	13	25	5.0	6.6	6.9	3.1	1.2	1.0	.38	1.2	1.2
18	3.4	10	16	4.8	6.4	7.4	3.0	1.3	.90	.38	1.2	1.3
19	3.6	4.4	18	4.9	6.3	8.1	2.6	1.3	.60	.41	1.3	1.4
20	3.7	2.9	20	5.2	6.3	6.9	2.6	1.2	2.4	.44	1.3	1.4
21	3.5	3.3	17	5.2	5.9	5.9	3.0	1.1	1.3	.47	1.3	1.4
22	3.3	3.4	12	5.2	5.8	5.3	2.7	1.1	.99	.50	1.3	1.4
23	2.9	2.6	9.6	5.2	5.8	5.2	2.8	1.0	.99	.56	1.3	1.2
24	2.9	3.3	8.3	5.2	6.0	4.8	2.5	1.0	.96	.52	1.3	1.2
25	2.6	3.4	7.6	5.2	5.8	4.6	2.4	1.1	.95	.54	1.1	1.2
26	2.4	3.1	7.6	5.2	5.8	4.8	2.4	1.2	.97	.51	.93	1.2
27	2.4	3.3	7.6	5.4	5.8	6.2	2.3	1.2	.92	.51	.85	1.3
28	2.3	15	6.8	5.5	5.8	7.7	2.2	1.4	.75	.49	.79	1.3
29	2.4	18	5.8	5.9	---	7.4	2.2	1.2	.75	.48	.68	1.3
30	2.1	9.6	5.6	5.9	---	6.2	2.1	1.1	.80	.49	.64	2.3
31	2.1	---	5.2	5.8	---	5.2	---	1.2	---	.54	.60	---
TOTAL	90.9	148.5	388.4	167.6	184.7	248.9	89.3	44.8	30.92	13.61	27.92	38.29
MEAN	2.93	4.95	12.5	5.41	6.60	8.03	2.98	1.45	1.03	.44	.90	1.28
MAX	5.8	18	70	8.6	11	15	4.8	2.3	2.4	.83	1.3	2.3
MIN	2.0	1.8	4.9	4.7	5.4	4.6	2.1	1.0	.60	.27	.56	.50
AC-FT	180	295	770	332	366	494	177	89	61	27	55	76

CAL YR 1984	TOTAL	2068.0	MEAN	5.65	MAX	70	MIN	1.4	AC-FT	4100
WTR YR 1985	TOTAL	1473.84	MEAN	4.04	MAX	70	MIN	.27	AC-FT	2920

11151700 SALINAS RIVER AT SOLEDAD, CA

LOCATION.--Lat 36°24'40", long 121°19'06", on boundary between San Vicente and Los Coches Grants, Monterey County, Hydrologic Unit 18060005, near right bank on upstream end of pier on U.S. Highway 101, 0.9 mi south of Soledad, and 1 mi upstream from Arroyo Seco River.

DRAINAGE AREA.--3,563 mi^2.

PERIOD OF RECORD.--October 1968 to September 1978, October 1983 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 170 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Mar. 21 to Apr. 26. Records fair except for period of estimated daily discharges, which is poor. Flow partly regulated by Santa Margarita Lake (station 11144500), Nacimiento Reservoir (station 11149300), and Lake San Antonio (station 11150100). Several small diversions upstream from station.

AVERAGE DISCHARGE (unadjusted).--12 years (water years 1969-78, 1984-85), 479 ft^3/s, 347,000 acre-ft/yr. The figure published in the 1984 report was in error; correct figure is 11 years (water years 1969-78, 1984), 512 ft^3/s, 370,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 106,000 ft^3/s, Feb. 25, 1969, gage height, 23.31 ft; maximum gage height, 23.39 ft, Jan. 26, 1969; no flow Mar. 9-16, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 276 ft^3/s, June 4, gage height, 9.67 ft; minimum daily, 6.8 ft^3/s, Apr. 25-26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	203	94	53	71	33	19	11	249	85	219	105	182
2	211	94	53	71	32	20	10	250	118	208	139	210
3	214	94	57	71	31	19	9.2	231	214	192	167	231
4	206	94	57	72	31	19	8.8	233	264	168	183	249
5	198	111	57	71	31	19	8.5	188	251	162	206	257
6	182	122	57	69	31	20	8.4	131	169	160	222	257
7	164	126	57	66	31	21	8.2	116	124	180	224	247
8	168	132	56	68	32	21	8.0	109	119	199	226	230
9	170	111	55	65	33	21	7.9	105	96	206	221	251
10	169	97	63	61	33	21	7.8	97	90	201	204	253
11	172	94	66	59	37	19	7.7	82	79	199	203	252
12	187	85	68	53	99	17	7.6	82	71	197	209	237
13	190	81	70	51	107	17	7.5	107	116	198	209	198
14	192	74	72	49	94	16	7.4	128	168	205	199	176
15	191	67	77	49	86	16	7.4	124	151	221	174	163
16	191	66	89	48	81	15	7.4	100	177	229	136	170
17	188	65	100	47	75	15	7.4	94	182	230	121	172
18	155	56	109	47	69	17	7.3	98	181	228	124	185
19	140	52	114	47	65	16	7.2	102	160	227	142	159
20	129	52	113	47	60	15	7.2	118	139	225	146	151
21	102	54	108	47	56	14	7.2	117	127	226	134	151
22	88	54	105	45	47	13	7.1	107	123	235	130	153
23	77	53	101	45	40	13	7.0	91	126	231	161	161
24	71	52	97	42	34	12	6.9	87	140	187	183	165
25	64	52	92	38	33	12	6.8	88	156	167	208	163
26	57	50	84	36	32	11	6.8	99	154	165	220	152
27	51	47	80	36	28	11	13	111	156	161	197	149
28	50	55	77	35	23	11	81	118	187	158	211	153
29	74	56	74	36	---	10	169	118	187	168	193	160
30	89	53	73	34	---	15	210	117	202	155	172	170
31	92	---	72	34	---	12	---	103	---	116	173	---
TOTAL	4435	2293	2406	1610	1384	497	676.7	3900	4512	6023	5542	5807
MEAN	143	76.4	77.6	51.9	49.4	16.0	22.6	126	150	194	179	194
MAX	214	132	114	72	107	21	210	250	264	235	226	257
MIN	50	47	53	34	23	10	6.8	82	71	116	105	149
AC-FT	8800	4550	4770	3190	2750	986	1340	7740	8950	11950	10990	11520

CAL YR 1984	TOTAL	96324	MEAN	263	MAX	3510	MIN	26	AC-FT	191100
WTR YR 1985	TOTAL	39085.7	MEAN	107	MAX	264	MIN	6.8	AC-FT	77530

11151870 ARROYO SECO NEAR GREENFIELD, CA

LOCATION.--Lat 36°14'15", long 121°28'50", in NE 1/4 SE 1/4 sec.36, T.19 S., R.4 E., Monterey County, Hydrologic Unit 18060005, on right bank 0.6 mi downstream from Rocky Creek, and 14.5 mi southwest of Greenfield.

DRAINAGE AREA.--113 mi^2.

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

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 780 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Aug. 27, 1970, at datum 2.00 ft higher.

REMARKS.--No estimated daily discharges. Records good except summer months which are fair. No regulation, small diversion for fishponds upstream from station by pumping.

AVERAGE DISCHARGE.--24 years, 167 ft^3/s, 121,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,800 ft^3/s, Dec. 6, 1966, gage height, 14.50 ft, at datum then in use, from rating curve extended above 5,700 ft^3/s on basis of slope-area measurement at gage-height 12.65 ft, present datum; maximum gage height, 16.34 ft, Feb. 7, 1978; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 27	2230	3,440	9.93	Feb. 8	1415	*5,860	*11.06

Minimum daily, 2.0 ft^3/s, Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	12	80	61	36	49	184	50	24	7.9	4.0	2.0
2	8.5	12	69	59	39	52	165	49	25	7.6	4.2	2.1
3	7.1	13	92	56	37	50	149	48	25	7.2	4.1	2.2
4	7.3	13	73	55	36	48	137	47	23	6.9	3.8	2.7
5	8.3	13	67	53	35	51	129	46	24	6.6	3.3	3.6
6	8.4	12	68	52	35	82	120	45	21	6.0	2.9	4.3
7	7.7	13	61	58	36	219	114	44	22	5.9	2.8	4.6
8	7.9	44	57	78	1470	114	106	44	19	5.8	2.7	5.0
9	8.0	26	54	66	521	96	100	44	17	5.4	2.6	5.5
10	8.1	19	240	60	249	127	96	44	16	5.2	2.6	6.2
11	11	18	117	58	175	219	92	44	16	5.9	2.6	6.1
12	12	18	92	56	138	195	88	42	15	6.5	2.7	6.1
13	9.8	171	80	54	117	160	85	40	15	6.0	2.8	5.7
14	8.8	53	72	52	103	141	81	38	14	5.2	3.0	5.5
15	7.9	38	173	51	92	129	78	36	13	4.9	3.2	5.3
16	10	122	204	50	85	118	78	35	12	4.7	3.3	5.5
17	35	89	129	48	80	109	83	36	11	4.7	3.0	5.0
18	16	55	120	46	75	119	79	37	9.6	4.7	3.0	5.0
19	13	45	128	45	70	106	74	38	8.8	4.8	2.9	5.3
20	12	39	120	44	68	98	71	36	9.0	5.1	2.9	5.5
21	11	35	102	44	63	92	74	34	9.5	5.1	2.9	5.2
22	11	31	92	43	61	88	69	33	9.8	4.8	2.8	5.0
23	11	29	85	42	58	83	65	33	11	4.4	2.7	4.5
24	11	62	80	41	57	80	62	33	10	3.9	2.7	4.2
25	10	56	75	40	55	77	60	33	9.9	3.5	2.5	3.8
26	10	42	80	39	55	164	59	31	9.6	3.4	2.4	3.7
27	10	430	92	39	52	796	57	28	9.4	3.4	2.2	3.9
28	11	562	76	39	50	464	55	26	8.5	3.3	2.3	4.3
29	12	150	71	38	---	316	52	25	8.3	3.1	2.2	4.8
30	12	100	67	37	---	251	51	25	8.2	3.0	2.2	5.1
31	12	---	64	37	---	211	---	23	---	3.3	2.1	---
TOTAL	334.6	2322	2980	1541	3948	4904	2713	1167	433.6	158.2	89.4	137.7
MEAN	10.8	77.4	96.1	49.7	141	158	90.4	37.6	14.5	5.10	2.88	4.59
MAX	35	562	240	78	1470	796	184	50	25	7.9	4.2	6.2
MIN	6.8	12	54	37	35	48	51	23	8.2	3.0	2.1	2.0
AC-FT	664	4610	5910	3060	7830	9730	5380	2310	860	314	177	273

CAL YR 1984	TOTAL	20896.4	MEAN	57.1	MAX	562	MIN	3.1	AC-FT	41450
WTR YR 1985	TOTAL	20728.5	MEAN	56.8	MAX	1470	MIN	2.0	AC-FT	41110

11152000 ARROYO SECO NEAR SOLEDAD, CA

LOCATION.--Lat 36°16'50", long 121°19'18", in SW 1/4 NE 1/4 sec.16, T.19 S., R.6 E., Monterey County, Hydrologic Unit 18060005, on right bank under county road bridge, 1.5 mi downstream from Vaquero Creek, and 10 mi south of Soledad.

DRAINAGE AREA.--244 mi^2.

PERIOD OF RECORD.--November 1901 to current year. Records for water year 1902 incomplete, yearly estimate published in WSP 1315-B.

REVISED RECORDS.--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.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 339.20 ft above National Geodetic Vertical Datum of 1929. Prior to June 16, 1929, nonrecording gage, and June 16, 1929, to Dec. 2, 1941, water-stage recorder at site 1 mi upstream at different datum. Dec. 3, 1941, to Sept. 30, 1959, water-stage recorder at datum 2.00 ft higher. Jan. 30 to Mar. 26, 1969, nonrecording gage at bridge at same datum.

REMARKS.--No estimated daily discharges. Records fair. No regulation or large diversion upstream from station.

AVERAGE DISCHARGE.--84 years, 171 ft^3/s, 123,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,300 ft^3/s, Apr. 3, 1958, gage height, 16.40 ft, at datum then in use, from rating curve extended above 12,000 ft^3/s on basis of slope-area measurement at gage height 16.30 ft; no flow at times during several years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 8	1630	*5,090	*7.28				

Minimum daily, 0.54 ft^3/s, Sept. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	17	100	75	45	58	223	51	23	4.9	1.0	.62
2	9.0	17	82	73	48	62	197	50	26	5.6	.92	.56
3	10	17	102	69	49	61	179	51	27	4.9	.98	.55
4	11	18	89	69	48	57	166	48	26	3.3	1.5	.55
5	12	19	77	67	48	57	152	46	23	2.5	1.6	.55
6	12	18	76	66	45	89	141	45	20	3.3	1.2	.55
7	12	17	69	65	45	250	133	46	18	2.5	1.8	.54
8	12	39	64	88	1070	155	124	46	16	3.7	1.6	.68
9	12	45	60	85	642	125	116	44	13	2.0	1.4	1.0
10	15	28	223	74	316	132	108	44	8.7	2.2	1.0	1.0
11	15	24	146	70	225	232	103	49	7.5	2.8	.93	2.1
12	17	23	107	65	181	244	98	45	8.3	3.3	.87	3.0
13	19	176	91	64	156	199	93	41	9.0	5.0	.85	3.5
14	19	86	83	62	138	177	85	38	8.8	4.3	.92	3.1
15	18	49	89	61	123	159	74	35	7.6	4.4	.97	3.2
16	17	108	282	59	112	146	73	34	6.6	4.1	1.0	2.9
17	33	148	150	59	104	135	80	34	6.6	5.0	1.4	2.8
18	33	74	150	57	96	141	77	35	5.2	5.4	2.1	2.9
19	22	59	147	57	90	131	70	34	6.3	4.7	2.7	3.2
20	19	48	156	55	84	124	68	33	6.2	6.2	2.1	2.3
21	17	45	125	55	81	115	70	29	6.0	5.4	2.5	1.9
22	16	41	109	53	78	108	69	27	7.0	5.0	2.5	2.2
23	16	38	102	52	74	101	64	25	7.3	4.9	2.6	1.9
24	14	46	94	51	71	96	60	24	8.8	4.8	2.6	1.5
25	14	87	86	50	67	92	58	23	9.6	4.1	2.1	1.3
26	13	57	85	48	66	92	57	23	9.4	2.8	1.5	.92
27	13	56	111	48	64	719	56	24	8.6	2.4	1.1	.90
28	14	780	93	48	61	487	55	27	6.6	2.0	.88	.92
29	15	208	85	48	---	364	53	25	6.4	1.8	.78	.96
30	16	133	81	46	---	296	53	24	6.4	1.6	.72	2.0
31	17	---	78	46	---	252	---	22	---	1.2	.71	---
TOTAL	490.2	2521	3392	1885	4227	5456	2955	1122	348.9	116.1	44.83	50.10
MEAN	15.8	84.0	109	60.8	151	176	98.5	36.2	11.6	3.75	1.45	1.67
MAX	33	780	282	88	1070	719	223	51	27	6.2	2.7	3.5
MIN	8.2	17	60	46	45	57	53	22	5.2	1.2	.71	.54
AC-FT	972	5000	6730	3740	8380	10820	5860	2230	692	230	89	99

CAL YR 1984 TOTAL 25096.10 MEAN 68.6 MAX 780 MIN 2.3 AC-FT 49780
WTR YR 1985 TOTAL 22608.13 MEAN 61.9 MAX 1070 MIN .54 AC-FT 44840

11152300 SALINAS RIVER NEAR CHUALAR, CA
(National stream-quality accounting network station)

LOCATION.--Lat 36°33'14", long 121°32'53", in Guadalupe Y Llanitos de Los Correos Grant, Monterey County, Hydrologic Unit 18060005, near left bank on downstream side of bridge on Chualar-River Road, and 2 mi southwest of Chualar.

DRAINAGE AREA.--4,042 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1976 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 68.00 ft above National Geodetic Vertical Datum of 1929. Prior to January 1979, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Oct. 2-25. Records fair except for period of estimated daily record, which is poor. Daily discharge prior to January 1979 determined by discharge measurements at this site correlated to streamflow for Salinas River at Soledad (station 11151700) and Salinas River near Spreckels (station 11152500). Flow regulated by Santa Margarita Lake (station 11144500), Lake Nacimiento, formerly Nacimiento Reservoir (station 11149300), and Lake San Antonio (station 11150100). Large withdrawals from ground water and small surface-water diversions for municipal use and irrigation upstream from station.

AVERAGE DISCHARGE.--9 years, 688 ft^3/s, 498,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 53,000 ft^3/s, revised, Mar. 3, 1983, gage height, 14.92 ft; no flow at times during most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,210 ft^3/s, Feb. 9, gage height, 6.83 ft; no flow for many days.

REVISIONS.--The maximum discharge for the water year 1983 has been revised to 53,000 ft^3/s, Mar. 3, 1983, gage height 14.92 ft, superseding the figures published in the reports for 1983 and 1984.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	38	35	34	5.0	.55	24	0	36	37	6.2	36
2	76	42	29	33	5.2	.25	10	20	27	41	.59	45
3	75	46	32	32	4.3	0	1.3	74	47	38	2.4	63
4	69	51	28	31	3.9	0	.02	96	80	33	16	78
5	65	59	28	30	3.6	0	0	110	95	26	30	93
6	62	67	28	30	4.2	0	0	81	85	19	38	105
7	62	67	27	31	5.5	.15	0	63	44	19	44	112
8	60	77	27	36	12	.14	0	53	24	28	45	111
9	59	68	25	32	1050	0	0	44	15	32	49	113
10	60	55	29	31	354	0	0	38	3.8	33	50	119
11	63	46	31	30	115	0	0	31	1.0	34	48	126
12	66	45	29	29	74	0	0	29	.55	35	50	125
13	68	52	27	28	95	0	0	32	.55	36	55	111
14	72	40	27	27	89	0	0	44	.49	38	57	74
15	74	35	32	26	75	0	0	54	7.9	47	51	55
16	74	37	39	25	67	0	0	50	17	53	41	49
17	70	34	36	24	58	0	0	37	30	56	23	48
18	66	32	45	23	52	0	0	32	35	57	12	48
19	57	26	52	21	46	0	0	36	36	55	15	52
20	47	23	53	20	39	0	0	42	28	54	24	39
21	40	21	50	19	32	0	0	49	17	55	26	34
22	33	20	49	19	26	0	0	46	9.4	61	20	33
23	29	18	47	17	20	0	0	38	5.5	68	17	36
24	26	20	46	15	15	0	0	30	11	67	27	42
25	23	18	45	13	11	0	0	29	15	46	36	41
26	20	16	44	11	7.9	0	0	33	16	36	51	40
27	13	17	44	9.5	4.9	0	0	40	11	34	56	37
28	8.2	72	41	9.3	2.4	63	0	47	12	30	47	37
29	8.2	289	39	9.4	---	102	0	49	26	31	54	38
30	22	53	37	7.9	---	62	0	48	29	35	47	47
31	33	---	34	6.2	---	39	---	44	---	25	36	---
TOTAL	1569.4	1484	1135	709.3	2276.9	267.09	35.32	1419	765.19	1259	1074.19	1987
MEAN	50.6	49.5	36.6	22.9	81.3	8.62	1.18	45.8	25.5	40.6	34.7	66.2
MAX	76	289	53	36	1050	102	24	110	95	68	57	126
MIN	8.2	16	25	6.2	2.4	0	0	0	.49	19	.59	33
AC-FT	3110	2940	2250	1410	4520	530	70	2810	1520	2500	2130	3940

CAL YR 1984	TOTAL	87259.8	MEAN	238	MAX	4100	MIN	.17	AC-FT	173100
WTR YR 1985	TOTAL	13981.39	MEAN	38.3	MAX	1050	MIN	0	AC-FT	27730

11152300 SALINAS RIVER NEAR CHUALAR, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1977 to current year.
CHEMICAL ANALYSES: Water years 1977 to current year.
BIOLOGICAL DATA: Water years 1977-81.
SPECIFIC CONDUCTANCE: Water years 1977-81.
WATER TEMPERATURES: Water years 1977-81.
SEDIMENT RECORDS: Water years 1977 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: January 1977 to September 1981.
WATER TEMPERATURES: January 1977 to September 1981.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
NOV										
13...	1240	54	551	8.3	17.0	765	13	12.6	130	160
JAN										
17...	1345	24	945	8.5	12.5	770	1.0	13.2	123	<2
FEB										
25...	1230	11	1010	8.4	18.0	765	1.3	10.6	112	<1
MAY										
14...	1200	43	525	8.5	20.0	760	3.0	10.6	117	27
JUL										
15...	1400	48	432	8.4	23.5	760	8.2	9.5	112	K98
SEP										
17...	1200	50	472	8.3	20.5	760	2.6	9.5	106	K3

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
NOV									
13...	700	220	64	50	22	36	26	1	2.3
JAN									
17...	<3	360	180	83	37	73	30	2	3.2
FEB									
25...	K3	380	210	92	37	71	29	2	3.5
MAY									
14...	60	220	67	51	23	33	24	1	2.1
JUL									
15...	K85	190	49	43	19	21	20	.7	1.9
SEP									
17...	K11	200	44	46	20	23	20	.7	1.8

DATE	BICAR-BONATE IT-FLD (MG/L AS HCO3)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L - CACO3)	CAR-BONATE IT-FLD (MG/L AS CO3)	ALKA-LINITY FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
NOV									
13...	185	152	.200	152	100	26	.30	16	364
JAN									
17...	211	182	5.5	184	220	58	.20	14	619
FEB									
25...	203	246	.900	200	230	61	.20	17	679
MAY									
14...	183	155	3.3	156	94	24	.20	13	336
JUL									
15...	166	137	.300	137	64	16	.20	13	278
SEP									
17...	188	154	--	156	62	16	.20	16	275

See footnotes at end of table.

11152300 SALINAS RIVER NEAR CHUALAR, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
NOV									
13...	340	.50	53	.75	.020	.40	.070	.040	.030
JAN									
17...	600	.84	40	3.5	.040	.40	.010	.010	<.010
FEB									
25...	610	.92	20	4.2	.070	.90	.050	.040	.030
MAY									
14...	340	.46	39	<.10	.040	.30	.030	.010	.020
JUL									
15...	260	.38	36	<.10	.020	.60	.100	.060	.030
SEP									
17...	280	.37	37	<.10	.040	.40	.040	.020	.010

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
NOV											
13...	1240	20	1	50	<.5	<1	<1	<3	<1	8	<1
JAN											
17...	1345	<10	1	77	<.5	<1	<1	<3	<1	<3	2
MAY											
14...	1200	<10	<1	45	<.5	<1	<1	<3	2	<3	2
SEP											
17...	1200	<10	2	42	<.5	<1	1	<3	2	5	1

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV										
13...	15	<1	<.1	<10	<1	1	<1	330	<6	12
JAN										
17...	23	<1	<.1	10	2	4	<1	500	<6	9
MAY										
14...	14	4	<.1	<10	--	1	<1	320	<6	8
SEP										
17...	13	<1	<.1	<10	1	<1	<1	290	<6	3

< Actual value is known to be less than the value shown.
K Results based on colony count outside the acceptable range (non-ideal colony count).

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV						
13...	1245	54	17.0	36	5.2	--
JAN						
17...	1300	24	12.5	5	0.32	--
FEB						
25...	1230	11	18.0	14	0.42	56
MAY						
14...	1120	43	19.5	13	1.5	--
JUL						
15...	1330	48	23.5	66	8.6	--
SEP						
17...	1130	50	20.5	20	2.7	64

11152500 SALINAS RIVER NEAR SPRECKELS, CA

LOCATION.--Lat 36°37'52", long 121°40'17", in Nacional Grant, Monterey County, Hydrologic Unit 18060005, on right bank on downstream side of bridge on Salinas-Monterey highway, 0.8 mi upstream from El Toro Creek, 1.6 mi northwest of Spreckels, and 2 mi south of Salinas.

DRAINAGE AREA.--4,156 mi^2.

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.

REVISED RECORDS.--WSP 1565: 1930, 1935, 1945. WSP 1715: 1959.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 20.56 ft above National Geodetic Vertical Datum of 1929. 1900-1901, May 10 to July 29, 1940, nonrecording gages at site 0.3 mi downstream at different datum. July 29, 1940, to May 22, 1969, water-stage recorder at site 0.3 mi downstream at datum 0.69 ft 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.

REMARKS.--Estimated daily discharges: Oct. 8-10 and Feb. 18 to Mar. 5. Records fair except for periods of estimated daily discharges, which are poor. Flow partly regulated by Santa Margarita Lake (station 11144500) beginning in 1941, Lake Nacimiento, formerly Nacimiento Reservoir (station 11149300) beginning in February 1957, and Lake San Antonio (station 11150100) beginning in December 1965. Large withdrawals from ground water and small surface-water diversions from municipal use and irrigation of about 95,000 acres above station. Low flow represents waste water from Alisal sewage disposal plant.

AVERAGE DISCHARGE.--56 years (water years 1930-85), 452 ft^3/s, 327,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83,100 ft^3/s, Feb. 26, 1969, gage height, 26.51 ft, site and datum then in use; maximum gage height, 26.85 ft, Jan. 16, 1952, site and datum then in use, from floodmarks; no flow at times in 1929-40.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 745 ft^3/s, Feb. 10, gage height, 6.76 ft; minimum daily, 0.15 ft^3/s, Sept. 27.

REVISIONS.--Revised daily discharges, in cubic feet per second, for March 4, 5, 1983 are given below. These figures supersede those published in the reports for 1983 and 1984.

Mar. 4 . . . . . 37,000 Mar. 5 22,000

	TOTAL	MEAN	MAX	MIN	AC-FT
March 1983	391,740	12,600	59,800	4,210	777,000
Wtr Yr 1983	1,093,993	2,997	59,800	181	2,170,000
Cal Yr 1983	1,038,831	2,846	59,800	13	2,060,000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	2.0	28	9.3	1.7	2.0	9.5	2.0	.88	.46	3.3	.97
2	2.4	1.9	13	8.3	1.9	1.8	3.4	2.1	1.1	.43	3.6	.87
3	2.4	1.9	8.9	7.6	2.0	1.7	2.0	2.0	.80	.50	3.8	.61
4	2.2	1.9	6.7	7.5	1.8	2.0	1.7	2.0	.85	.51	3.6	.58
5	2.3	1.7	6.4	7.5	1.7	2.5	1.5	2.1	.80	.51	3.7	.58
6	2.7	1.8	5.3	7.2	1.8	3.6	1.5	2.1	.81	.68	6.0	.67
7	2.8	1.9	4.4	7.4	1.8	3.7	1.7	1.8	.86	.68	8.0	.78
8	27	12	3.8	10	2.7	2.2	1.6	1.9	.85	.68	8.8	.83
9	21	26	3.4	12	22	1.8	1.6	2.0	.75	.78	8.2	.71
10	20	22	3.8	9.2	511	1.8	1.8	1.9	.75	.67	7.6	.68
11	22	14	3.2	7.6	139	1.8	2.1	1.9	.78	.95	6.8	.62
12	27	10	3.7	7.3	50	1.7	2.2	1.9	.75	1.1	5.9	.65
13	25	13	3.9	6.7	26	1.6	2.2	1.9	.75	1.2	5.2	.67
14	31	14	3.4	5.7	39	1.7	2.2	2.0	.90	1.5	4.6	.79
15	35	8.5	4.4	5.2	36	1.6	2.2	2.1	.85	1.6	4.0	.82
16	46	8.3	21	4.9	28	1.8	1.9	1.8	.98	1.7	3.4	.50
17	73	7.3	23	4.6	22	2.0	2.2	1.6	.76	1.8	3.4	.45
18	82	6.6	12	4.4	18	2.1	1.8	1.7	.54	2.0	3.0	.64
19	74	4.0	15	4.1	14	1.9	1.9	1.7	.46	2.0	2.3	.54
20	50	3.4	21	3.6	9.8	1.8	2.0	1.8	.60	2.3	2.1	.33
21	35	2.7	23	3.0	7.2	1.7	2.2	1.6	.65	2.3	2.0	.44
22	25	2.4	21	2.6	6.0	1.6	2.0	1.6	.68	2.0	1.7	.38
23	13	2.3	21	2.4	4.6	1.7	2.0	1.5	.75	2.1	1.6	.22
24	6.5	2.7	19	2.3	4.0	1.9	1.9	1.3	.62	2.0	1.8	.20
25	3.8	2.3	18	2.1	3.0	1.8	1.9	1.2	.64	1.9	1.6	.17
26	2.3	2.1	17	2.0	2.7	2.0	1.8	1.2	.71	2.0	1.2	.16
27	2.2	2.1	17	1.9	2.5	3.0	1.8	.98	.59	2.4	1.1	.15
28	2.4	2.2	16	2.5	2.3	2.8	1.8	.94	.53	3.1	1.0	.22
29	2.4	29	14	2.1	---	1.8	1.8	.80	.56	2.8	.95	.32
30	2.3	127	12	1.9	---	1.6	1.9	.73	.58	3.2	.97	.16
31	2.1	---	10	1.7	---	15	---	.68	---	3.3	1.0	---
TOTAL	647.6	337.0	382.3	164.6	962.5	76.0	66.1	50.83	22.13	49.15	112.22	15.71
MEAN	20.9	11.2	12.3	5.31	34.4	2.45	2.20	1.64	.74	1.59	3.62	.52
MAX	82	127	28	12	511	15	9.5	2.1	1.1	3.3	8.8	.97
MIN	2.1	1.7	3.2	1.7	1.7	1.6	1.5	.68	.46	.43	.95	.15
AC-FT	1280	668	758	326	1910	151	131	101	44	97	223	31

CAL YR 1984 TOTAL 73631.5 MEAN 201 MAX 3460 MIN .58 AC-FT 146000
WTR YR 1985 TOTAL 2886.14 MEAN 7.91 MAX 511 MIN .15 AC-FT 5720

11152540 EL TORO CREEK NEAR SPRECKELS, CA

LOCATION.--Lat 36°35'00", long 121°42'50", in El Toro Grant, Monterey County, Hydrologic Unit 18060005, on right bank 0.3 mi downstream from San Benancio Gulch, and 4.7 mi southwest of Spreckels.

DRAINAGE AREA.--31.9 mi^2.

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

GAGE.--Water-stage recorder. Elevation of gage is 210 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Sept. 16, 1983, at site 700 ft upstream at different datum.

REMARKS.--Estimated daily discharges: Nov. 27 to Jan. 8, Feb. 10-21, Mar. 8-26. Records poor. No regulation or diversion upstream of station except for small stock ponds. Low flow at times affected by irrigation runoff from upstream golf course.

AVERAGE DISCHARGE.--24 years, 1.89 ft^3/s, 1,370 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 630 ft^3/s, Mar. 2, 1983, gage height, 6.10 ft, site and datum then in use, from rating curve extended above 93 ft^3/s on basis of slope-area measurement at gage height 6.07 ft; no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 20 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 8	1130	*7.1	*3.03				

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.07	.24	.32	.24	.21	.26	.27	.09	.05	.01		
2	.09	.25	.45	.24	.25	.30	.26	.08	.06	0		
3	.09	.19	.37	.24	.21	.25	.25	.08	.06	0		
4	.09	.16	.35	.23	.20	.27	.24	.08	.05	0		
5	.10	.16	.33	.23	.20	.36	.25	.08	.05	0		
6	.09	.17	.32	.23	.20	.87	.27	.07	.05	0		
7	.09	.23	.31	.50	.20	.77	.24	.07	.05	0		
8	.10	.41	.31	.90	1.5	.50	.24	.06	.05	0		
9	.10	.18	.30	.55	.62	.40	.23	.07	.05	0		
10	.10	.17	.29	.42	.50	.37	.22	.07	.04	0		
11	.29	.16	.29	.40	.45	.34	.20	.07	.04	0		
12	.10	.35	.28	.40	.43	.32	.20	.07	.05	0		
13	.11	.69	.28	.32	.41	.31	.21	.06	.05	0		
14	.11	.25	.28	.28	.40	.30	.16	.06	.04	0		
15	.09	.37	1.2	.27	.39	.29	.17	.06	.04	0		
16	.24	.91	.95	.27	.38	.28	.16	.06	.04	0		
17	.14	.29	.55	.28	.37	.27	.21	.06	.04	0		
18	.12	.26	.40	.28	.36	.36	.16	.06	.04	0		
19	.18	.25	.36	.24	.35	.29	.16	.06	.05	0		
20	.16	.32	.34	.25	.35	.27	.15	.06	.04	.01		
21	.16	.27	.32	.25	.34	.26	.15	.05	.04	.02		
22	.17	.23	.31	.25	.34	.25	.14	.05	.04	.02		
23	.17	.23	.30	.24	.34	.25	.13	.05	.04	.01		
24	.17	.41	.29	.22	.34	.24	.13	.05	.04	.01		
25	.15	.25	.28	.22	.31	.24	.12	.05	.04	.02		
26	.20	.24	.27	.22	.29	1.2	.11	.06	.03	.03		
27	.19	1.6	.27	.21	.29	.64	.10	.07	.03	.02		
28	.26	.80	.26	.28	.29	.35	.10	.06	.03	.01		
29	.21	.45	.26	.21	---	.29	.10	.05	.03	0		
30	.23	.35	.25	.20	---	.31	.10	.04	.02	0		
31	.22	---	.25	.20	---	.29	---	.04	---	0		
TOTAL	4.59	10.84	11.34	9.27	10.52	11.70	5.43	1.94	1.28	0.16	0	0
MEAN	.15	.36	.37	.30	.38	.38	.18	.063	.043	.005	0	0
MAX	.29	1.6	1.2	.90	1.5	1.2	.27	.09	.06	.03	0	0
MIN	.07	.16	.25	.20	.20	.24	.10	.04	.02	0	0	0
AC-FT	9.1	22	22	18	21	23	11	3.8	2.5	.3	0	0

CAL YR 1984	TOTAL	335.64	MEAN	.92	MAX	11	MIN	0	AC-FT	666
WTR YR 1985	TOTAL	67.07	MEAN	.18	MAX	1.6	MIN	0	AC-FT	133

11152600 GABILAN CREEK NEAR SALINAS, CA

LOCATION.--Lat 36°45'21", long 121°36'34", in La Natividad Grant, Monterey County, Hydrologic Unit 18060011, on left bank at downstream side of county road bridge, 0.3 mi downstream from small left-bank tributary, and 6.2 mi northeast of Salinas.

DRAINAGE AREA.--36.7 mi^2.

PERIOD OF RECORD.--October 1970 to current year. January 1959 to September 1970 in reports of Monterey County Flood Control and Water Conservation District.

REVISED RECORDS.--WDR CA-84-2: 1978, 1980-83.

GAGE.--Water-stage recorder and crest-stage gage. Concrete control since Oct. 9, 1975. Elevation of gage is 200 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Oct. 9, 1975, on right bank at different datum.

REMARKS.--Estimated daily discharges: Mar. 31 to Apr. 2. Records fair. Natural flow of stream affected by small diversions, storage reservoirs, and return flow from irrigated areas.

AVERAGE DISCHARGE.--15 years, 5.41 ft^3/s, 3,920 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 898 ft^3/s, Apr. 1, 1974, gage height, 11.13 ft, at datum then in use, from rating curve extended above 260 ft^3/s on basis of slope-area measurement of peak flow; no flow for most of each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 60 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar.26	2200	*111	*2.83				

No flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	0		0	0	4.5					
2		0	0		0	0	3.3					
3		0	0		0	0	1.8					
4		0	0		0	0	1.2					
5		0	0		0	.32	.74					
6		0	0		0	5.9	.56					
7		0	0		0	9.3	.60					
8		.14	0		12	2.2	.23					
9		0	0		8.9	.12	.44					
10		0	0		3.5	0	.73					
11		0	0		.35	.02	.39					
12		0	0		0	.99	.37					
13		.25	0		0	.35	.07					
14		0	0		0	0	.03					
15		.68	2.4		0	.02	.18					
16		3.3	.20		0	0	.29					
17		.40	0		0	0	2.2					
18		0	0		0	.03	.86					
19		0	0		0	.02	.28					
20		0	0		0	0	.34					
21		0	0		0	0	.34					
22		0	0		0	0	.05					
23		0	0		0	0	0					
24		0	0		0	0	0					
25		0	0		.29	0	0					
26		0	0		0	13	0					
27		8.0	0		0	40	0					
28		4.8	0		0	21	0					
29		.25	0		---	15	0					
30		0	0		---	11	0					
31		---	0		---	7.2	---					
TOTAL	0	17.82	2.60	0	25.04	126.47	19.50	0	0	0	0	0
MEAN	0	.59	.084	0	.89	4.08	.65	0	0	0	0	0
MAX	0	8.0	2.4	0	12	40	4.5	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	35	5.2	0	50	251	39	0	0	0	0	0

CAL YR 1984	TOTAL	857.9	MEAN	2.34	MAX	30	MIN	0	AC-FT 1700
WTR YR 1985	TOTAL	191.43	MEAN	.52	MAX	40	MIN	0	AC-FT 380

11152650 RECLAMATION DITCH NEAR SALINAS, CA

LOCATION.--Lat 36°42'18", long 121°42'14", in Rincon Del Zanjon Grant, Monterey County, Hydrologic Unit 18060011, on right bank at upstream side of San Jon Road bridge, and 3.4 mi northwest of Salinas.

DRAINAGE AREA.--53.2 mi^2.

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. Elevation of gage is 30 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Jan. 10-16, Mar. 8 to Apr. 8. Records good except for estimated daily discharges, which are poor. Flow is mostly drainage from Carr Lake area for farming.

AVERAGE DISCHARGE.--15 years, 18.4 ft^3/s, 13,330 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 524 ft^3/s, Mar. 1, 1983; no flow Dec. 4, 10, 11, 1978.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	2.9	8.8	2.9	4.4	4.2	5.5	6.1	7.4	3.3	3.6	2.5
2	3.4	4.7	7.3	2.3	11	12	4.8	8.8	9.7	4.3	3.3	2.2
3	3.9	5.2	15	2.9	5.4	3.5	6.0	6.4	3.6	7.2	3.6	1.7
4	3.4	2.9	6.1	3.2	3.6	13	4.8	6.3	3.4	5.2	4.2	2.5
5	3.7	2.7	13	3.2	3.1	10	5.4	8.2	5.2	5.4	3.8	3.5
6	3.7	8.7	8.8	2.6	4.4	59	4.7	6.8	6.8	5.5	4.7	4.2
7	3.3	3.5	4.5	13	3.9	64	4.5	7.4	6.4	4.4	4.0	3.4
8	2.7	58	3.5	59	60	11	5.0	8.6	6.1	3.8	3.4	2.4
9	2.9	16	2.9	14	57	8.0	6.2	6.4	6.7	4.5	3.2	3.0
10	3.0	4.6	17	4.5	29	4.6	7.6	5.9	4.2	6.3	3.7	3.2
11	37	2.4	8.8	3.0	16	6.0	8.5	6.0	6.1	7.6	3.2	2.1
12	7.8	3.2	5.5	2.8	4.4	4.7	11	7.2	5.1	5.4	2.3	2.4
13	4.8	36	3.6	3.2	3.5	6.2	12	5.5	5.2	4.6	2.5	2.3
14	2.6	16	2.8	3.8	3.2	5.4	10	8.5	5.7	3.9	2.9	2.0
15	1.8	9.3	25	3.3	3.8	5.0	6.7	9.6	6.6	4.2	3.7	2.2
16	27	83	68	2.9	3.1	8.0	15	9.3	6.7	3.8	3.1	2.1
17	35	73	34	2.6	3.1	15	35	8.9	4.7	2.9	3.0	2.0
18	8.1	33	14	2.8	2.9	8.0	8.0	8.3	5.5	2.8	2.6	3.1
19	4.4	8.5	8.4	2.8	3.7	5.0	5.1	6.5	7.0	3.0	2.2	3.9
20	2.9	12	6.5	2.3	3.4	6.2	4.0	4.5	6.2	4.9	2.5	3.9
21	2.3	9.5	5.4	1.9	3.0	5.5	5.6	6.8	5.8	3.7	2.7	3.4
22	1.7	4.5	4.3	2.4	4.1	5.0	3.7	5.8	4.5	2.1	3.1	3.3
23	3.0	2.9	2.9	2.7	3.5	4.4	4.2	7.4	4.5	2.6	2.9	2.7
24	2.8	24	2.3	2.6	3.8	5.5	5.4	6.8	3.6	2.9	2.9	4.3
25	2.9	15	2.5	2.7	3.2	4.8	7.2	7.5	4.0	2.7	3.3	3.9
26	3.0	6.1	2.9	3.0	4.6	14	6.0	8.3	3.9	3.7	1.6	3.4
27	4.1	19	3.3	3.1	6.0	45	6.4	4.1	4.6	4.5	2.3	3.0
28	3.2	121	3.1	11	4.8	32	6.9	3.5	4.9	4.4	2.9	2.9
29	2.2	60	3.1	8.4	---	15	5.8	4.8	6.3	3.0	3.5	2.5
30	2.9	23	3.0	3.8	---	5.0	7.1	5.6	4.6	3.9	3.7	2.2
31	2.9	---	2.9	3.7	---	4.5	---	6.6	---	3.7	3.3	---
TOTAL	195.6	670.6	299.2	182.4	261.9	399.5	228.1	212.4	165.0	130.2	97.7	86.2
MEAN	6.31	22.4	9.65	5.88	9.35	12.9	7.60	6.85	5.50	4.20	3.15	2.87
MAX	37	121	68	59	60	64	35	9.6	9.7	7.6	4.7	4.3
MIN	1.7	2.4	2.3	1.9	2.9	3.5	3.7	3.5	3.4	2.1	1.6	1.7
AC-FT	388	1330	593	362	519	792	452	421	327	258	194	171

CAL YR 1984	TOTAL	3917.8	MEAN	10.7	MAX	121	MIN	1.7	AC-FT	7770
WTR YR 1985	TOTAL	2928.8	MEAN	8.02	MAX	121	MIN	1.6	AC-FT	5810

11153040 PACHECO CREEK AT DUNNEVILLE, CA

LOCATION.--Lat 36°57'36", long 121°25'01", in San Felipe Grant, San Benito County, Hydrologic Unit 18060002, on right bank at upstream side of San Felipe road bridge, and 1.5 mi north of the town of Dunneville.

DRAINAGE AREA.--154 mi^2.

PERIOD OF RECORD.--October 1981 to September 1985 (discontinued).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 170.9 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records fair. Flow partially regulated by Pacheco Lake 15 mi upstream, capacity, 6,150 acre-ft. Small diversions above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,090 ft^3/s, Feb. 16, 1982, gage height, 14.57 ft; no flow many days in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 8	1715	*904	*7.44				

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	0	6.2	0				
2					0	0	2.5	0				
3					0	0	.58	0				
4					0	0	.09	0				
5					0	0	.04	0				
6					0	0	.03	0				
7					0	53	.03	0				
8					213	28	.02	0				
9					114	8.7	0	0				
10					20	2.1	0	0				
11					4.1	.74	0	0				
12					.22	.62	0	0				
13					.06	.15	0	0				
14					.03	.06	0	.59				
15					0	.02	0	2.0				
16					0	.02	0	.60				
17					0	0	0	.10				
18					0	0	0	.04				
19					0	0	0	.02				
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	71	0	0				
28					0	112	0	0				
29					---	50	0	0				
30					---	22	0	0				
31					---	12	---	0				
TOTAL	0	0	0	0	351.41	360.41	9.49	3.35	0	0	0	0
MEAN	0	0	0	0	12.6	11.6	.32	.11	0	0	0	0
MAX	0	0	0	0	213	112	6.2	2.0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	697	715	19	6.6	0	0	0	0

CAL YR 1984	TOTAL	2893.64	MEAN	7.91	MAX	163	MIN	0	AC-FT	5740
WTR YR 1985	TOTAL	724.66	MEAN	1.99	MAX	213	MIN	0	AC-FT	1440

11154200 UVAS CREEK NEAR GILROY, CA

LOCATION.--Lat 36°59'32", long 121°34'21", in Las Animas Grant, Santa Clara County, Hydrologic Unit 18060002, on left bank 400 ft upstream from county road bridge, 0.4 mi southwest of Gilroy, and 3.9 mi downstream from Bodfish Creek.

DRAINAGE AREA.--71.2 mi^2.

PERIOD OF RECORD.--January 1959 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 190 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Apr. 23 to June 20. Records fair except for estimated daily discharges, which are poor. Flow regulated by Uvas Reservoir 10 mi upstream, capacity, 10,000 acre-ft. Diversion above station for irrigation.

AVERAGE DISCHARGE.--26 years, 43.2 ft^3/s, 31,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,490 ft^3/s, Feb. 1, 1963, gage height, 17.66 ft, from rating curve extended above 3,300 ft^3/s; maximum gage height, 20.21 ft, Jan. 5, 1982; no flow for many days in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,790 ft^3/s, Feb. 8, gage height, 7.67 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	8.0		0	10	38	.02	0			
2		0	5.9		0	10	32	.01	.10			
3		0	5.5		0	9.5	27	0	2.0			
4		0	3.3		0	9.4	24	0	.30			
5		0	5.4		0	9.7	22	0	0			
6		0	4.8		0	49	19	0	1.2			
7		0	3.0		0	167	17	0	.25			
8		0	1.9		600	57	16	1.0	.05			
9		0	.72		191	35	14	.30	0			
10		0	8.1		82	28	12	0	0			
11		0	8.2		54	22	11	0	0			
12		0	5.0		39	17	9.2	.10	0			
13		0	3.5		30	14	8.2	.03	0			
14		0	2.7		23	11	9.3	0	0			
15		0	7.9		19	9.3	10	0	0			
16		0	20		16	10	9.7	0	0			
17		0	12		14	14	13	.50	0			
18		0	9.6		12	16	12	.10	0			
19		0	8.2		10	13	9.3	0	0			
20		0	6.4		9.0	9.5	5.7	0	0			
21		0	4.7		7.4	7.3	4.0	0	0			
22		0	3.7		6.0	6.1	3.3	0	0			
23		0	3.0		4.7	5.1	2.3	0	0			
24		0	2.6		3.9	3.6	1.0	0	0			
25		0	2.1		3.6	2.1	.30	0	0			
26		0	1.8		3.7	72	.15	0	0			
27		23	1.5		4.8	328	.07	0	0			
28		153	.75		8.1	152	.05	.50	0			
29		25	0		---	87	.03	1.5	0			
30		13	0		---	60	.02	.30	0			
31		---	0		---	47	---	0	---			
TOTAL	0	214	150.27	0	1141.2	1290.6	329.62	4.36	3.90	0	0	0
MEAN	0	7.13	4.85	0	40.8	41.6	11.0	.14	.13	0	0	0
MAX	0	153	20	0	600	328	38	1.5	2.0	0	0	0
MIN	0	0	0	0	0	2.1	.02	0	0	0	0	0
AC-FT	0	424	298	0	2260	2560	654	8.6	7.7	0	0	0

CAL YR 1984	TOTAL	5859.74	MEAN	16.0	MAX	297	MIN	0	AC-FT	11620
WTR YR 1985	TOTAL	3133.95	MEAN	8.59	MAX	600	MIN	0	AC-FT	6220

11156500 SAN BENITO RIVER NEAR WILLOW CREEK SCHOOL, CA

LOCATION.--Lat 36°36'34", long 121°12'07", in SE 1/4 SE 1/4 sec.21, T.15 S., R.7 E., San Benito County, Hydrologic Unit 18060002, on left bank 0.9 mi northwest of Willow Creek School, 1.3 mi downstream from Willow Creek, and 10 mi northwest of San Benito.

DRAINAGE AREA.--249 mi^2.

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1565: 1948(M), 1949.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 925.52 ft above National Geodetic Vertical Datum of 1929. Prior to Jan. 28, 1948, and Nov. 11, 1955, to Sept. 30, 1965, at site 0.9 mi 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 higher.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Hernandez Reservoir 40 mi upstream beginning in December 1961, capacity, 18,500 acre-ft. Small diversion upstream from station for irrigation.

AVERAGE DISCHARGE.--46 years, 26.8 ft^3/s, 19,420 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,210 ft^3/s, Apr. 3, 1958, gage height, 8.35 ft, site and datum then in use, from rating curve extended above 600 ft^3/s on basis of slope-area measurement of peak flow; no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of February 1938, reached a stage of about 9.0 ft, from flood marks at former site 0.9 mile downstream, referenced to datum used at that site.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 33 ft^3/s, Apr. 21, gage height, 4.86 ft; minimum daily, 0.28 ft^3/s, Aug. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	5.7	8.8	8.9	6.4	6.7	9.1	29	25	1.3	.40	.29
2	7.1	5.8	8.6	8.8	6.6	7.5	8.6	28	25	1.1	.40	.29
3	6.5	6.1	14	8.5	6.7	7.3	8.5	28	25	.99	.40	.29
4	6.2	5.6	10	8.4	7.1	7.4	8.1	28	24	.88	.40	.29
5	5.9	5.5	10	7.9	6.2	7.8	13	28	23	.86	.40	.29
6	5.7	5.5	11	7.9	6.2	9.0	18	28	22	.81	.40	.29
7	5.5	5.5	9.2	8.3	6.3	15	21	28	22	.78	.40	.29
8	5.2	8.1	8.5	11	7.8	11	23	28	21	.73	.40	.29
9	5.1	6.4	8.2	8.8	8.6	9.9	24	28	20	.73	.37	.29
10	4.9	6.0	12	8.0	7.7	9.7	22	29	18	.72	.32	.29
11	5.8	6.0	11	7.8	7.5	10	25	29	18	.73	.35	.35
12	5.6	6.0	9.7	8.0	7.1	11	24	28	18	.59	.35	.35
13	5.3	8.1	9.1	7.5	7.2	10	23	28	17	.54	.35	.35
14	5.0	8.8	8.9	7.5	6.9	10	24	27	18	.57	.35	.35
15	4.8	8.3	11	7.5	6.9	10	25	27	17	.56	.35	.35
16	6.6	11	18	7.3	7.1	10	26	27	16	.57	.35	.35
17	9.1	11	16	7.1	7.0	11	28	27	15	.61	.35	.35
18	7.2	8.5	16	6.8	7.1	12	27	27	9.9	.57	.35	.35
19	6.9	8.3	16	6.6	7.1	12	27	27	6.8	.55	.35	.35
20	6.6	8.3	14	6.6	7.1	11	28	27	5.4	.58	.31	.35
21	6.2	8.2	13	6.5	7.3	11	30	26	4.7	.49	.28	.35
22	6.2	8.3	12	6.3	7.1	10	28	26	4.0	.48	.29	.35
23	5.9	8.5	12	6.5	7.2	7.9	28	26	3.4	.55	.29	.35
24	5.8	8.9	11	6.5	7.3	6.5	29	26	3.0	.52	.29	.35
25	5.7	8.7	11	6.3	7.4	6.3	30	26	2.7	.58	.29	.35
26	5.5	8.7	11	6.5	7.3	8.4	29	26	2.2	.49	.29	.35
27	5.4	8.7	11	6.7	7.1	14	29	26	1.9	.50	.29	.35
28	5.5	12	10	6.6	7.1	13	29	26	1.6	.46	.29	.35
29	5.7	11	9.3	6.9	---	11	29	25	1.6	.48	.29	.35
30	5.8	9.7	9.3	6.6	---	9.7	29	25	1.4	.47	.29	.35
31	5.7	---	9.1	6.5	---	9.5	---	24	---	.47	.29	---
TOTAL	185.7	237.2	348.7	231.1	198.4	305.6	702.3	838	392.6	20.26	10.53	9.90
MEAN	5.99	7.91	11.2	7.45	7.09	9.86	23.4	27.0	13.1	.65	.34	.33
MAX	9.1	12	18	11	8.6	15	30	29	25	1.3	.40	.35
MIN	4.8	5.5	8.2	6.3	6.2	6.3	8.1	24	1.4	.46	.28	.29
AC-FT	368	470	692	458	394	606	1390	1660	779	40	21	20

CAL YR 1984 TOTAL 7768.10 MEAN 21.2 MAX 55 MIN 3.1 AC-FT 15410
WTR YR 1985 TOTAL 3480.29 MEAN 9.54 MAX 30 MIN .28 AC-FT 6900

11158600 SAN BENITO RIVER AT STATE HIGHWAY 156, NEAR HOLLISTER, CA

LOCATION.--Lat 36°51'07", long 121°25'44", in San Justo Grant, San Benito County, Hydrologic Unit 18060002, on right bank at downstream side of bridge on State Highway 156, and 1.6 mi west of Hollister.

DRAINAGE AREA.--607 mi^2.

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 260 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair below 20 ft^3/s and poor above. Flow regulated by Hernandez Reservoir 73 mi upstream, capacity, 18,500 acre-ft. Some diversions upstream from station for irrigation.

AVERAGE DISCHARGE.--15 years, 40.6 ft^3/s, 29,410 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,900 ft^3/s, Mar. 1, 1983, gage height, 11.97 ft, from rating curve extended above 4,100 ft^3/s; no flow many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 103 ft^3/s, Mar. 27, gage height, 5.67 ft; no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.1	4.8	14	9.9	7.7	11	0	6.0			
2	1.3	.97	4.6	14	8.7	7.1	9.3	0	5.8			
3	1.7	.98	5.7	15	7.9	7.2	7.5	0	5.9			
4	1.8	1.1	6.2	14	8.3	6.9	7.1	0	5.8			
5	2.1	1.2	9.1	13	8.8	10	6.5	0	5.5			
6	1.4	1.4	9.6	11	8.6	9.8	6.2	0	4.8			
7	.80	1.3	9.5	16	8.6	13	5.0	0	4.3			
8	.72	2.4	8.5	23	19	10	5.0	0	2.8			
9	.65	2.2	7.6	23	28	8.3	6.7	0	1.8			
10	.58	1.9	9.7	20	17	6.6	6.8	0	.86			
11	.72	1.6	12	19	11	10	4.8	.05	2.0			
12	.80	1.8	9.5	16	9.9	5.7	5.0	.78	2.1			
13	.66	3.4	8.8	15	9.7	5.5	4.0	1.3	1.7			
14	.27	2.2	9.0	16	9.4	4.9	3.4	2.2	1.7			
15	.22	2.3	13	17	8.8	4.4	3.7	2.8	1.6			
16	1.0	5.5	14	17	8.2	3.4	4.6	2.9	1.5			
17	1.3	3.9	16	17	7.1	3.1	8.4	3.9	1.5			
18	1.7	4.3	18	16	7.1	3.3	8.0	4.6	.95			
19	1.3	3.6	19	14	7.3	3.4	7.5	3.9	.35			
20	1.0	4.5	19	13	8.2	3.2	4.4	4.4	.27			
21	.86	5.4	18	13	8.7	3.4	1.8	4.6	0			
22	.83	5.6	16	15	8.9	3.5	3.9	4.8	0			
23	.98	4.7	15	13	8.2	3.0	4.8	4.5	0			
24	.95	5.2	15	12	6.8	2.2	3.8	4.3	0			
25	.88	5.7	15	12	7.5	2.1	4.1	3.7	0			
26	.95	6.6	16	10	8.8	5.5	4.2	4.0	0			
27	.84	12	16	9.5	8.7	40	2.2	5.2	0			
28	.77	9.0	16	9.7	8.2	63	.41	6.9	0			
29	.89	9.1	15	10	---	53	0	5.9	0			
30	1.1	5.7	13	10	---	28	0	5.0	0			
31	1.2	---	14	10	---	16	---	5.4	---			
TOTAL	31.37	116.65	382.6	447.2	277.3	353.2	150.11	81.13	57.23	0	0	0
MEAN	1.01	3.89	12.3	14.4	9.90	11.4	5.00	2.62	1.91	0	0	0
MAX	2.1	12	19	23	28	63	11	6.9	6.0	0	0	0
MIN	.22	.97	4.6	9.5	6.8	2.1	0	0	0	0	0	0
AC-FT	62	231	759	887	550	701	298	161	114	0	0	0

CAL YR 1984 TOTAL 6515.53 MEAN 17.8 MAX 231 MIN 0 AC-FT 12920
WTR YR 1985 TOTAL 1896.79 MEAN 5.20 MAX 63 MIN 0 AC-FT 3760

11159000 PAJARO RIVER AT CHITTENDEN, CA
(National stream-quality accounting network station)

LOCATION.--Lat 36°54'01", long 121°35'48", in Salsipuedes Grant, Santa Cruz County, Hydrologic Unit 18060002, on left bank at downstream side of bridge on State Highway 129, 0.6 mi downstream from Pescadero Creek, 0.6 mi southeast of Chittenden, and 2.3 mi downstream from San Benito River.

DRAINAGE AREA.--1,186 mi^2.

WATER-DISCHARGE RECORDS

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 and crest-stage gage. Datum of gage is 82.28 ft above National Geodetic Vertical Datum of 1929. Prior to May 13, 1949, nonrecording gage on former bridge 100 ft downstream at same datum except for periods in 1947 and 1948 when a water-stage recorder was in use.

REMARKS.--Estimated daily discharges: Feb. 14-22. Records good except for period of estimated daily record, which is fair. Low flows regulated by Hernandez Reservoir, capacity, 18,500 acre-ft, Pacheco Lake, capacity, 6,140 acre-ft, Chesbro Reservoir (station 11153480), Uvas Reservoir (station 11154020), and San Felipe Lake. Many diversions upstream from station for irrigation.

AVERAGE DISCHARGE.--46 years, 161 ft^3/s, 116,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,000 ft^3/s, Dec. 24, 1955, gage height, 32.46 ft, from rating curve extended above 8,300 ft^3/s, on basis of slope-conveyance study; maximum gage height, 33.11 ft, Apr. 3, 1958; no flow at times in July, August 1948.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in February 1938, reached a stage of 31.3 ft, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 9	0045	*1,360	*10.68	Mar. 27	0900	877	8.91

Minimum daily, 2.3 ft^3/s, Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	9.0	40	29	29	35	169	26	18	15	6.9	3.4
2	7.6	8.8	32	29	30	38	130	26	19	15	7.1	3.9
3	9.3	9.4	33	29	30	37	105	25	21	11	7.4	5.0
4	12	9.2	30	30	29	36	87	25	17	12	8.0	5.1
5	9.6	9.2	34	30	28	38	76	22	16	14	9.1	5.5
6	6.9	10	52	31	28	77	66	22	14	14	8.5	5.2
7	5.8	11	35	31	30	273	60	27	14	12	7.8	7.3
8	5.2	17	32	39	410	163	55	22	14	10	9.8	9.1
9	5.0	17	30	37	721	119	51	22	14	8.8	12	8.3
10	5.0	14	36	34	276	100	48	30	15	8.1	14	6.7
11	8.0	13	39	32	197	92	44	29	14	8.7	11	5.6
12	7.6	13	33	31	153	80	40	27	14	11	10	5.3
13	6.8	19	31	32	130	70	38	24	14	12	9.1	4.8
14	7.3	21	29	31	100	63	36	22	14	11	12	3.8
15	6.5	15	34	30	88	58	34	21	14	10	13	3.4
16	8.0	28	66	33	76	54	33	18	15	10	10	3.4
17	12	66	53	30	67	51	36	19	15	8.6	9.6	4.8
18	8.6	28	42	29	59	51	37	19	15	7.9	9.6	4.9
19	7.0	20	40	29	53	48	35	18	12	7.6	6.9	4.7
20	6.5	18	37	34	49	45	33	18	13	8.7	4.7	3.6
21	6.4	21	33	30	45	43	34	18	12	10	4.7	3.2
22	6.6	19	31	30	42	41	32	22	14	11	3.8	2.9
23	6.4	18	30	29	39	39	31	22	18	9.0	4.4	3.5
24	6.5	24	30	29	36	37	31	18	20	8.2	5.4	3.0
25	6.9	37	30	29	35	36	31	20	14	9.5	7.1	3.1
26	7.1	22	31	28	34	86	29	20	12	8.8	5.9	2.6
27	7.6	44	33	28	34	611	29	19	11	6.8	4.0	2.4
28	7.9	260	31	29	33	392	27	18	14	8.1	3.3	2.6
29	8.0	110	29	31	---	273	25	18	15	10	3.5	2.4
30	8.9	53	30	29	---	229	26	17	17	6.6	4.5	2.3
31	9.2	---	30	29	---	190	---	19	---	6.6	4.1	---
TOTAL	235.4	963.6	1096	951	2881	3505	1508	673	449	310.0	237.2	131.8
MEAN	7.59	32.1	35.4	30.7	103	113	50.3	21.7	15.0	10.0	7.65	4.39
MAX	12	260	66	39	721	611	169	30	21	15	14	9.1
MIN	5.0	8.8	29	28	28	35	25	17	11	6.6	3.3	2.3
AC-FT	467	1910	2170	1890	5710	6950	2990	1330	891	615	470	261

CAL YR 1984 TOTAL 27155.1 MEAN 74.2 MAX 1030 MIN 4.3 AC-FT 53860
WTR YR 1985 TOTAL 12941.0 MEAN 35.5 MAX 721 MIN 2.3 AC-FT 25670

11159000 PAJARO RIVER AT CHITTENDEN, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1952 to current year.
BIOLOGICAL DATA: Water years 1978-81.
SPECIFIC CONDUCTANCE: Water years 1978-81.
WATER TEMPERATURES: Water years 1978-81.
SEDIMENT RECORDS: Water years 1978 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: May 1978 to September 1981.
WATER TEMPERATURES: May 1978 to September 1981.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
DEC										
10...	1230	34	1360	8.0	12.5	760	12	9.5	90	840
FEB										
22...	1400	42	1130	8.0	14.0	760	21	10.0	98	810
JUN										
11...	1235	14	1210	8.4	23.0	760	11	8.1	95	320
SEP										
18...	1230	4.8	1520	8.3	18.0	755	1.5	8.3	89	>1500

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
DEC									
10...	1100	530	160	100	69	110	31	2	3.1
FEB									
22...	920	450	130	84	59	75	26	2	2.0
JUN									
11...	490	520	100	89	71	84	26	2	2.1
SEP									
18...	1000	470	25	69	72	160	42	3	4.2

DATE	BICAR-BONATE IT-FLD (MG/L AS HCO3)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L - CAC03)	CAR-BONATE IT-FLD (MG/L AS CO3)	ALKA-LINITY FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
DEC									
10...	456	374	--	374	200	110	.30	23	858
FEB									
22...	399	327	--	328	170	77	.20	19	695
JUN									
11...	504	414	.600	412	140	87	.30	25	765
SEP									
18...	542	444	--	441	200	140	.40	22	938

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
DEC									
10...	840	1.2	79	4.8	.040	.90	.210	.160	.140
FEB									
22...	680	.95	79	5.7	.080	1.5	.110	.080	.070
JUN									
11...	750	1.0	29	9.0	.080	.80	.200	.170	.150
SEP									
18...	940	1.3	12	4.2	.330	.90	.400	.370	.330

See footnotes at end of table.

11159000 PAJARO RIVER AT CHITTENDEN, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
DEC											
10...	1230	50	1	120	<.5	<1	<1	<3	3	16	8
FEB											
22...	1400	10	<1	100	<.5	<1	<1	<3	2	11	<1
JUN											
11...	1235	<10	4	110	<.5	<1	<1	<3	3	4	3
SEP											
18...	1230	<10	4	110	<.5	<1	<1	<3	4	14	1

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
DEC										
10...	24	110	.2	<10	8	2	<1	650	<6	16
FEB										
22...	20	77	<.1	<10	7	2	<1	550	<6	22
JUN										
11...	24	39	<.1	<10	5	<1	<1	620	<6	9
SEP										
18...	21	100	<.1	<10	8	2	<1	640	<6	10

> Actual value is known to be greater than the value shown.
< Actual value is known to be less than the value shown.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
DEC						
10...	1230	34	12.5	122	11	66
FEB						
22...	1240	42	14.0	134	15	63
JUN						
11...	1215	14	23.0	84	3.2	--
SEP						
18...	1230	4.8	18.0	3	0.04	--

11159200 CORRALITOS CREEK AT FREEDOM, CA

LOCATION.--Lat 36°56'22", long 121°46'10", in Los Corralitos Grant, Santa Cruz County, Hydrologic Unit 18060002, on right bank just upstream from Green Valley Road bridge, 0.2 mi north of Freedom, and 2.3 mi north of Watsonville.

DRAINAGE AREA.--27.8 mi^2.

PERIOD OF RECORD.--October 1956 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 80 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. No regulation; Watsonville Water Works can divert up to 8.0 ft^3/s upstream of station for municipal supply, domestic use, and irrigation.

AVERAGE DISCHARGE.--29 years, 16.2 ft^3/s, 11,740 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,610 ft^3/s, Jan. 4, 1982, gage height, 16.66 ft, from rating curve extended above 1,900 ft^3/s on basis of slope-area measurement of maximum flow; no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1955, reached a stage of 15.6 ft, from floodmarks, discharge, 3,620 ft^3/s, on basis of contracted-opening measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 27	2130	812	7.04	Feb. 8	1245	*1,120	*8.02

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.28	9.2	3.9	.87	5.4	15	.65	.44	.02	0	
2	0	.35	8.8	3.3	1.8	5.9	12	.61	.53	0	0	
3	.09	1.8	8.2	1.9	1.5	4.9	8.8	.60	.44	.03	.36	
4	.42	1.4	6.4	1.4	1.2	5.8	7.1	.62	.38	0	.22	
5	.19	1.2	11	1.4	.87	17	6.3	.61	.40	.01	.08	
6	.28	1.9	8.4	1.4	.82	40	5.5	.66	.25	.14	.10	
7	.23	1.9	6.8	7.5	4.2	48	4.9	.72	.22	.02	.04	
8	.54	4.5	6.0	9.7	339	23	4.3	.56	.33	0	.06	
9	.30	2.1	5.4	5.5	117	14	3.8	.55	.30	0	.22	
10	.19	1.9	12	4.8	66	12	3.5	1.0	.19	.02	.16	
11	.77	3.9	7.3	4.2	50	17	3.1	1.6	.14	.03	.03	
12	.37	2.9	6.1	3.9	35	11	2.8	1.8	.21	.05	.14	
13	.39	10	5.0	3.7	25	8.3	2.4	1.7	.29	.35	.24	
14	.20	3.7	3.7	3.5	21	5.5	1.9	1.6	.15	.25	0	
15	.07	2.8	22	3.1	18	4.4	1.6	.84	.33	.29	0	
16	4.4	40	18	1.5	16	3.9	1.7	.55	.13	.07	.29	
17	3.6	11	13	1.0	13	3.5	6.6	.55	.09	.06	0	
18	.75	8.1	10	.93	12	7.6	5.0	.52	.09	.06	0	
19	.44	4.1	8.3	.88	10	5.7	3.8	.52	.12	.05	0	
20	.36	3.7	7.2	.83	9.8	5.2	3.5	.49	.14	.14	0	
21	.33	3.3	6.3	.87	9.6	4.5	3.8	.49	.11	.11	0	
22	.31	2.8	5.9	.82	8.8	2.8	3.6	.45	.07	.09	0	
23	.29	2.5	5.6	.82	6.9	2.2	2.9	.47	.09	.21	0	
24	.26	16	5.3	.83	6.3	1.9	1.7	.46	.27	.72	0	
25	.31	6.4	5.2	.86	5.9	2.0	1.3	.46	.14	.88	0	
26	.40	4.3	5.2	.84	5.8	72	.86	.52	.13	.34	0	
27	.30	101	4.9	2.2	5.2	102	.71	.51	.11	.28	0	
28	.29	81	4.5	4.6	4.8	54	.66	.50	.04	.39	0	
29	.33	22	4.2	3.4	---	37	.71	.50	.07	.10	0	
30	.37	14	4.0	1.3	---	26	.67	.55	.17	0	0	
31	.32	---	4.0	.90	---	19	---	.95	---	0	0	
TOTAL	17.10	360.83	237.9	81.78	796.36	571.5	120.51	22.61	6.37	4.71	1.94	0
MEAN	.55	12.0	7.67	2.64	28.4	18.4	4.02	.73	.21	.15	.063	0
MAX	4.4	101	22	9.7	339	102	15	1.8	.53	.88	.36	0
MIN	0	.28	3.7	.82	.82	1.9	.66	.45	.04	0	0	0
AC-FT	34	716	472	162	1580	1130	239	45	13	9.3	3.8	0

CAL YR 1984 TOTAL 2451.41 MEAN 6.70 MAX 101 MIN 0 AC-FT 4860
WTR YR 1985 TOTAL 2221.61 MEAN 6.09 MAX 339 MIN 0 AC-FT 4410

11159690 APTOS CREEK NEAR APTOS, CA

LOCATION.--Lat 37°00'06", long 121°54'18", in Aptos Grant, Santa Cruz County, Hydrologic Unit 18060001, on right bank under county road bridge, 0.4 mi downstream from small right-bank tributary, and 1.7 mi north of Aptos.

DRAINAGE AREA.--10.2 mi^2.

PERIOD OF RECORD.--October 1971 to September 1985 (discontinued).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 160 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 20 to Nov. 27, Mar. 29 to Apr. 10, and Apr. 14 to May 23. Records fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--14 years, 10.2 ft^3/s, 7,390 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,980 ft^3/s, Jan. 4, 1982, gage height, 12.10 ft, from rating curve extended above 340 ft^3/s on basis of slope-area measurement of peak flow; minimum daily, 0.36 ft^3/s, July 30 to Aug. 2, 1972.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 27	1215	130	5.88	Mar. 26	2200	129	5.87
Feb. 8	1200	*479	*8.07				

Minimum daily, 0.74 ft^3/s, Oct. 26-28, Nov. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	.74	4.6	2.3	1.9	1.9	10	2.6	2.1	1.6	1.4	1.0
2	1.4	2.4	4.2	2.3	1.9	2.1	9.1	2.5	2.1	1.6	1.4	1.0
3	1.4	1.9	4.3	2.3	1.9	1.7	7.8	2.4	2.1	1.6	1.3	1.0
4	1.5	1.4	3.5	2.3	1.9	1.7	6.8	2.4	2.1	1.6	1.2	1.1
5	1.6	1.0	4.6	2.3	1.9	3.9	6.2	2.2	2.0	1.6	1.2	1.2
6	1.6	2.4	4.1	2.3	1.9	8.4	5.6	2.3	1.9	1.6	1.2	1.2
7	1.6	1.9	3.3	3.9	5.2	16	5.2	2.2	1.9	1.6	1.2	1.2
8	1.6	4.4	3.0	4.5	145	7.4	4.8	2.2	1.7	1.4	1.2	2.7
9	1.6	2.4	2.8	2.8	28	5.6	4.6	2.2	1.6	1.4	1.2	2.4
10	1.6	1.5	4.8	2.6	12	6.3	4.3	2.4	1.6	1.4	1.2	1.7
11	3.2	4.8	3.4	2.3	8.4	6.3	4.2	2.3	1.6	1.4	1.2	1.6
12	1.2	9.4	2.8	2.3	6.7	5.6	3.8	2.2	1.6	1.4	1.2	1.6
13	1.0	18	2.8	2.1	5.8	5.0	3.5	2.1	1.6	1.4	1.2	1.5
14	1.0	4.4	2.8	2.1	5.0	4.5	3.6	2.0	1.6	1.4	1.2	1.4
15	.96	2.2	7.8	2.1	4.3	4.0	3.5	2.0	1.6	1.4	1.2	1.2
16	5.2	22	7.5	2.1	3.9	3.8	3.4	2.0	1.7	1.4	1.2	1.2
17	3.4	12	5.7	1.9	3.5	3.4	4.1	1.9	1.7	1.4	1.2	1.2
18	1.5	6.4	5.0	1.9	3.0	4.3	3.7	1.9	1.7	1.4	1.2	1.2
19	1.4	3.7	4.4	1.9	3.0	3.3	3.3	1.9	1.7	1.4	1.2	1.2
20	1.2	2.9	3.9	1.9	2.7	3.0	3.1	1.8	1.7	1.6	1.2	1.2
21	1.1	2.2	3.4	1.9	2.4	2.7	3.7	1.9	1.7	1.7	1.2	1.2
22	1.0	1.8	3.0	1.9	2.3	2.5	3.4	1.9	1.7	1.7	1.2	1.2
23	.90	2.5	2.8	1.8	2.3	2.2	3.2	1.9	1.7	1.7	1.2	1.2
24	.82	13	2.8	1.7	2.3	2.1	3.0	1.9	1.6	1.7	1.1	1.2
25	.78	6.0	2.8	1.7	2.1	2.1	2.8	1.9	1.6	1.7	1.0	1.1
26	.74	2.8	2.9	1.9	2.0	33	2.8	1.9	1.6	1.7	1.0	.95
27	.74	54	2.8	2.1	1.9	58	2.8	1.9	1.6	1.7	1.0	.94
28	.74	25	2.6	3.2	1.9	43	2.8	1.9	1.6	1.7	1.0	.94
29	.81	8.2	2.4	2.4	---	23	2.7	1.9	1.6	1.6	1.0	.94
30	.88	5.7	2.3	2.1	---	17	2.6	1.9	1.6	1.4	1.0	.94
31	.81	---	2.3	1.9	---	13	---	2.0	---	1.4	1.0	---
TOTAL	44.68	227.04	115.4	70.8	265.1	296.8	130.4	64.5	51.9	47.6	36.2	38.41
MEAN	1.44	7.57	3.72	2.28	9.47	9.57	4.35	2.08	1.73	1.54	1.17	1.28
MAX	5.2	54	7.8	4.5	145	58	10	2.6	2.1	1.7	1.4	2.7
MIN	.74	.74	2.3	1.7	1.9	1.7	2.6	1.8	1.6	1.4	1.0	.94
AC-FT	89	450	229	140	526	589	259	128	103	94	72	76

CAL YR 1984	TOTAL	1718.5	MEAN	4.70	MAX	54	MIN	.74	AC-FT	3410
WTR YR 1985	TOTAL	1388.83	MEAN	3.81	MAX	145	MIN	.74	AC-FT	2750

11160000 SOQUEL CREEK AT SOQUEL, CA

LOCATION.--Lat 36°59'29", long 121°57'17", in NE 1/4 sec.10, T.11 S., R.1 W., Santa Cruz County, Hydrologic Unit 18060001, on left bank 0.2 mi upstream from highway bridge in town of Soquel, and 0.4 mi downstream from Bates Creek.

DRAINAGE AREA.--40.2 mi^2.

PERIOD OF RECORD.--May 1951 to current year.

REVISED RECORDS.--WSP 1715: Drainage area. WSP 2129: 1958, 1959-60(P).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 21.38 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Feb. 13 to Mar. 6. Records good except for estimated daily discharges, which are fair. No regulation; small diversion upstream of station for irrigation.

AVERAGE DISCHARGE.--34 years, 45.0 ft^3/s, 32,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,800 ft^3/s, Dec. 23, 1955, gage height, 22.33 ft, from rating curve extended above 2,900 ft^3/s on basis of slope-area measurement of maximum flow; no flow on several days during August and September 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 27	2030	1,250	6.65	Feb. 8	1115	*2,270	*8.63

Minimum daily, 1.1 ft^3/s, Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	2.4	28	12	9.3	11	38	12	7.1	3.5	2.1	1.1
2	1.7	10	26	11	10	15	34	12	7.5	3.5	1.7	1.2
3	1.7	10	30	11	10	12	31	11	7.6	2.8	1.5	1.2
4	1.7	5.5	23	10	10	11	29	11	7.2	2.7	1.6	1.2
5	1.6	4.2	26	10	9.7	28	26	10	6.8	2.4	1.8	1.6
6	1.6	9.5	27	10	9.4	85	26	11	6.1	2.4	1.6	1.5
7	1.5	7.3	22	23	25	131	24	10	5.7	2.0	1.6	1.5
8	1.4	19	20	31	792	48	23	10	5.5	1.6	1.8	2.5
9	1.5	9.0	18	18	175	33	21	10	5.3	1.7	1.7	3.7
10	1.7	7.6	42	16	78	65	21	11	5.4	1.6	1.8	2.8
11	6.8	15	29	15	51	62	19	11	5.0	2.3	1.6	2.8
12	3.9	19	23	13	40	43	18	10	5.0	2.2	1.8	2.3
13	3.1	75	20	13	33	35	17	9.8	5.1	2.4	1.7	2.0
14	4.3	16	18	12	29	30	17	9.2	5.3	2.4	1.6	1.8
15	3.8	12	51	12	25	27	16	9.2	5.1	2.0	1.5	1.7
16	21	111	45	11	22	25	16	9.0	5.2	2.0	1.5	1.6
17	13	34	30	10	20	24	19	9.1	5.0	2.0	1.6	1.6
18	5.3	21	26	10	18	28	17	8.8	5.3	2.3	1.5	2.0
19	4.0	12	23	10	17	23	15	8.7	5.1	1.9	1.5	2.0
20	3.2	10	21	10	16	21	14	8.4	5.2	2.2	1.5	1.7
21	2.7	9.0	19	9.7	15	19	17	9.0	5.1	2.2	1.6	1.6
22	2.6	7.3	18	9.7	15	17	16	7.8	5.1	2.0	1.6	1.6
23	2.4	6.3	17	9.5	14	17	15	7.0	4.8	2.1	1.5	1.4
24	2.3	56	16	9.3	13	17	14	7.0	5.2	2.0	1.5	1.4
25	2.3	20	16	9.3	13	16	13	7.1	5.2	2.2	1.4	1.4
26	2.0	12	16	9.4	12	183	13	7.1	4.7	1.9	1.5	1.5
27	2.0	204	16	9.2	12	215	13	8.0	4.2	1.8	1.4	1.6
28	2.2	212	14	14	12	144	13	7.9	4.2	1.9	1.3	1.7
29	2.4	60	14	11	---	77	13	7.2	3.9	1.9	1.2	1.7
30	2.5	38	13	9.8	---	55	12	6.8	3.9	1.8	1.3	1.8
31	2.5	---	13	9.3	---	45	---	6.5	---	1.7	1.2	---
TOTAL	110.4	1034.1	720	378.2	1505.4	1562	580	282.6	161.8	67.4	48.5	53.5
MEAN	3.56	34.5	23.2	12.2	53.8	50.4	19.3	9.12	5.39	2.17	1.56	1.78
MAX	21	212	51	31	792	215	38	12	7.6	3.5	2.1	3.7
MIN	1.4	2.4	13	9.2	9.3	11	12	6.5	3.9	1.6	1.2	1.1
AC-FT	219	2050	1430	750	2990	3100	1150	561	321	134	96	106

CAL YR 1984 TOTAL 6810.7 MEAN 18.6 MAX 212 MIN 1.1 AC-FT 13510
WTR YR 1985 TOTAL 6503.9 MEAN 17.8 MAX 792 MIN 1.1 AC-FT 12900

11160020 SAN LORENZO RIVER NEAR BOULDER CREEK, CA

LOCATION.--Lat 37°12'24", long 122°08'38", in NE 1/4 SW 1/4 sec.25, T.8 S., R.3 W., Santa Cruz County, Hydrologic Unit 18060001, on right bank 22 ft upstream from culvert on State Highway 9, 100 ft upstream from small right-bank tributary, and 5.8 mi north of town of Boulder Creek.

DRAINAGE AREA.--6.17 mi^2.

PERIOD OF RECORD.--July 1968 to current year.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 710 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--17 years, 7.61 ft^3/s, 5,510 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,050 ft^3/s, Jan. 4, 1982, gage height, 11.48 ft, from rating curve extended above 230 ft^3/s, on basis of slope-area measurement of maximum flow; minimum daily, 0.08 ft^3/s, Aug. 2, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 90 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 8	1030	*122	*3.92				

Minimum daily, 0.29 ft^3/s, Aug. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.49	.78	3.5	2.1	1.6	1.7	6.1	2.1	1.6	.83	.62	.30
2	.45	1.2	3.3	1.9	2.0	2.2	5.6	2.0	1.8	.78	.60	.39
3	.43	1.6	3.4	1.9	1.7	1.9	5.1	2.0	1.6	.78	.55	.51
4	.45	.98	3.1	1.9	1.6	2.0	4.6	2.0	1.6	.77	.53	.55
5	.45	.92	3.0	1.9	1.5	2.6	4.2	1.9	1.6	.78	.49	.65
6	.45	1.5	2.8	1.9	1.5	4.4	4.0	1.9	1.4	.78	.49	.60
7	.43	1.3	2.6	2.7	2.5	8.1	3.8	1.9	1.4	.75	.52	.58
8	.41	2.3	2.6	2.7	37	4.9	3.6	2.0	1.4	.74	.50	.86
9	.43	1.5	2.3	2.1	14	3.8	3.4	1.9	1.3	.71	.48	1.2
10	.42	1.8	4.6	1.7	8.3	7.1	3.3	2.2	1.2	.70	.47	.97
11	1.1	2.4	3.6	1.7	5.9	9.3	3.3	2.0	1.2	.76	.50	.85
12	.60	3.6	3.3	1.7	4.5	7.1	3.3	1.8	1.2	.73	.53	.82
13	.55	9.3	3.0	1.6	4.1	5.7	3.2	1.8	1.2	.69	.47	.79
14	.52	2.4	2.8	1.5	3.8	4.8	3.0	1.7	1.1	.66	.47	.73
15	.52	1.7	4.2	1.5	3.5	4.2	2.8	1.7	1.1	.68	.44	.74
16	3.8	7.8	5.0	1.5	3.2	4.0	2.8	1.7	1.1	.66	.47	.68
17	2.0	4.0	4.2	1.5	2.8	3.7	2.9	1.9	1.1	.63	.48	.69
18	.98	3.0	3.9	1.5	2.7	4.0	2.7	1.9	1.1	.66	.47	.72
19	.97	2.2	3.6	1.5	2.5	3.6	2.6	1.8	1.1	.66	.45	.64
20	.86	2.0	3.4	1.5	2.3	3.3	2.6	1.8	1.1	.71	.46	.45
21	.85	1.7	3.1	1.5	2.3	3.1	2.8	1.6	1.1	.66	.42	.43
22	.83	1.4	2.9	1.5	2.1	3.1	2.5	1.6	1.1	.54	.41	.41
23	.74	1.3	2.8	1.6	2.1	2.8	2.3	1.6	1.0	.55	.37	.40
24	.73	3.5	2.6	1.7	1.9	2.8	2.3	1.6	1.1	.55	.32	.39
25	.73	2.3	2.6	1.7	1.9	2.7	2.3	1.7	1.0	.57	.32	.36
26	.73	1.7	2.6	1.7	1.9	12	2.2	1.8	.92	.58	.33	.39
27	.73	19	2.3	1.7	1.9	17	2.2	1.9	.89	.56	.32	.48
28	.73	12	2.3	1.8	1.9	13	2.2	1.8	.85	.57	.32	.52
29	.89	5.3	2.1	1.7	---	9.6	2.2	1.7	.88	.59	.32	.52
30	.86	4.1	2.1	1.6	---	7.5	2.1	1.6	.88	.66	.31	.57
31	.83	---	2.1	1.5	---	6.7	---	1.7	---	.66	.29	---
TOTAL	24.96	104.58	95.7	54.3	123.0	168.7	96.0	56.6	35.92	20.95	13.72	18.19
MEAN	.81	3.49	3.09	1.75	4.39	5.44	3.20	1.83	1.20	.68	.44	.61
MAX	3.8	19	5.0	2.7	37	17	6.1	2.2	1.8	.83	.62	1.2
MIN	.41	.78	2.1	1.5	1.5	1.7	2.1	1.6	.85	.54	.29	.30
AC-FT	50	207	190	108	244	335	190	112	71	42	27	36

CAL YR 1984	TOTAL	1230.78	MEAN	3.36	MAX	23	MIN	.41	AC-FT	2440
WTR YR 1985	TOTAL	812.62	MEAN	2.23	MAX	37	MIN	.29	AC-FT	1610

11160060 BEAR CREEK AT BOULDER CREEK, CA

LOCATION.--Lat 37°07'40", long 122°06'57", in NW 1/4 NW 1/4 sec.29, T.9 S., R.2 W., Santa Cruz County, Hydrologic Unit 18060001, on left bank on downstream side of private road bridge, in town of Boulder Creek, and 0.3 mi upstream from mouth.

DRAINAGE AREA.--16.0 mi^2.

PERIOD OF RECORD.--October 1977 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 460 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharge: Feb. 18 to Mar. 15. Records fair except for estimated daily discharges, which are poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--8 years, 23.1 ft^3/s, 16,740 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,480 ft^3/s, Jan. 4, 1982, gage height, 13.30 ft, from rating curve extended above 600 ft^3/s on basis of slope-area measurement of maximum flow; minimum daily, 0.12 ft^3/s Sept. 23, 24, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 27	1930	*343	*3.49	Feb. 8	0945	311	3.33

Minimum daily, 0.19 ft^3/s, Aug. 10, 29, Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.90	1.6	8.0	4.2	3.3	4.5	14	4.1	2.9	1.0	.46	.19
2	.90	2.5	8.7	4.1	3.9	5.1	12	3.9	3.1	1.0	.47	.20
3	.93	6.7	11	4.0	3.7	4.3	11	3.9	3.4	.99	.42	.20
4	1.0	4.3	7.2	3.9	3.6	6.0	10	3.0	3.1	.87	.37	.28
5	1.0	3.2	6.9	3.9	3.5	7.6	9.6	3.5	2.9	.83	.35	.44
6	1.0	5.4	6.3	3.9	3.5	9.6	9.2	3.7	2.8	.72	.32	.50
7	1.0	6.9	5.6	5.8	5.9	12	8.8	3.5	2.6	.71	.26	.47
8	1.0	11	5.2	6.4	125	12	8.3	3.2	2.4	.69	.24	.64
9	1.0	4.2	4.9	4.5	30	8.4	7.8	3.2	2.3	.71	.24	.85
10	1.0	4.7	29	4.6	16	12	7.5	3.4	2.1	.52	.19	.96
11	1.6	7.4	15	4.2	13	20	7.1	3.6	2.0	.46	.25	.72
12	1.7	14	11	4.1	11	16	6.6	3.2	1.9	.53	.27	.58
13	1.4	37	8.8	3.7	9.6	14	6.5	3.3	1.9	.51	.32	.52
14	1.3	7.2	7.9	3.7	8.6	13	6.2	3.1	1.8	.48	.34	.50
15	1.3	4.9	14	3.7	7.9	12	6.0	3.0	1.7	.45	.32	.47
16	9.9	38	14	3.6	7.3	11	6.0	3.0	1.6	.47	.30	.38
17	8.2	12	11	3.5	6.9	10	6.2	3.0	1.6	.44	.34	.35
18	2.6	7.8	9.4	3.5	6.4	12	5.6	3.0	1.7	.45	.32	.37
19	2.2	5.8	8.6	3.5	5.9	10	5.4	3.0	1.6	.43	.32	.40
20	1.9	4.7	7.8	3.5	5.6	9.2	5.1	3.0	1.7	.50	.29	.39
21	1.7	4.5	7.0	3.5	5.2	8.5	6.0	2.9	1.7	.63	.30	.39
22	1.7	4.0	6.6	3.5	5.0	7.9	5.6	2.9	1.7	.61	.32	.34
23	1.6	3.7	6.2	3.3	4.8	7.7	4.9	2.7	1.7	.54	.31	.30
24	1.5	15	5.8	3.2	4.7	7.3	4.7	2.7	1.6	.47	.33	.34
25	1.6	7.6	5.5	3.2	4.3	7.1	4.6	2.7	1.7	.44	.21	.29
26	1.6	5.8	5.5	3.2	4.2	47	4.6	2.7	1.5	.44	.29	.27
27	1.6	78	5.4	3.2	4.2	45	4.6	3.0	1.4	.42	.30	.27
28	1.6	55	5.1	3.6	4.1	33	4.6	3.0	1.3	.39	.23	.32
29	1.6	16	4.7	3.6	---	23	4.2	3.0	1.1	.35	.19	.32
30	1.6	10	4.6	3.4	---	18	4.1	3.0	1.1	.38	.22	.31
31	1.6	---	4.4	3.4	---	15	---	2.9	---	.39	.20	---
TOTAL	59.53	388.9	261.1	119.4	317.1	428.2	206.8	98.1	59.9	17.82	9.29	12.56
MEAN	1.92	13.0	8.42	3.85	11.3	13.8	6.89	3.16	2.00	.57	.30	.42
MAX	9.9	78	29	6.4	125	47	14	4.1	3.4	1.0	.47	.96
MIN	.90	1.6	4.4	3.2	3.3	4.3	4.1	2.7	1.1	.35	.19	.19
AC-FT	118	771	518	237	629	849	410	195	119	35	18	25

CAL YR 1984 TOTAL 2599.02 MEAN 7.10 MAX 78 MIN .22 AC-FT 5160
WTR YR 1985 TOTAL 1978.70 MEAN 5.42 MAX 125 MIN .19 AC-FT 3920

11160070 BOULDER CREEK AT BOULDER CREEK, CA

LOCATION.--Lat 37°07'36", long 122°07'18", in NW 1/4 NE 1/4 sec.30, T.9 S., R.2 W., Santa Cruz County, Hydrologic Unit 18060001, on right bank under bridge on State Highway 9 in town of Boulder Creek, and 750 ft upstream from mouth.

DRAINAGE AREA.--11.3 mi^2.

PERIOD OF RECORD.--October 1976 to current year.

REVISED RECORDS.--WDR CA-84-2: 1980, 1982-83.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 470 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--9 years, 21.5 ft^3/s, 15,580 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,500 ft^3/s, Jan. 4, 1982, gage height, 9.50 ft, from rating curve extended above 330 ft^3/s on basis of slope-area measurement at gage height 6.03 ft; minimum daily, 0.35 ft^3/s, Oct. 16, 17, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 27	1815	466	3.49	Mar. 26	1900	330	3.10
Feb. 8	0900	*740	*4.19				

Minimum daily, 0.82 ft^3/s, Aug. 23, 25-29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.4	10	5.1	4.0	5.9	26	6.2	2.5	2.7	1.6	.92
2	1.1	4.5	13	5.1	5.0	9.7	23	6.1	3.6	2.4	1.5	.93
3	1.2	4.1	14	5.1	4.3	6.3	21	5.9	3.4	2.2	1.5	.95
4	1.3	2.0	9.3	5.1	4.3	6.2	19	6.3	3.1	2.0	1.5	1.1
5	1.3	1.7	8.8	4.9	3.9	15	18	5.9	3.0	1.9	1.5	1.1
6	1.4	5.5	8.8	4.7	3.6	38	17	5.9	2.8	1.9	1.5	1.1
7	1.4	3.5	7.5	9.0	22	43	16	5.7	2.6	1.9	1.6	1.1
8	1.2	6.7	6.7	7.9	304	19	15	4.8	2.4	1.9	1.5	2.5
9	1.1	2.7	6.5	11	69	15	13	5.1	2.5	1.7	1.5	2.7
10	1.2	8.3	26	18	35	52	13	5.5	2.5	1.7	1.1	1.5
11	4.1	12	12	12	25	42	13	5.0	2.2	1.7	1.1	.95
12	1.3	4.2	9.8	5.1	20	27	12	4.3	2.3	1.7	1.1	.83
13	1.1	17	8.4	4.7	17	21	11	4.3	2.3	1.8	1.1	.95
14	1.1	9.3	7.7	4.7	15	17	11	4.6	2.4	2.0	1.2	.85
15	1.1	6.0	27	4.7	13	16	10	3.8	2.2	1.9	1.1	.87
16	20	24	26	4.7	12	14	9.8	3.7	2.2	1.7	1.1	.95
17	5.0	11	16	4.3	11	15	11	3.9	2.1	1.7	1.3	1.0
18	4.3	9.2	13	4.3	9.9	20	10	3.4	1.9	1.7	1.2	1.2
19	1.6	6.2	11	4.3	9.0	15	9.1	3.4	1.9	1.7	1.1	1.1
20	1.1	5.9	9.5	4.0	8.9	15	8.3	3.6	1.9	2.0	.98	1.1
21	1.1	5.4	8.5	3.8	8.8	13	12	3.2	1.9	2.2	.95	1.1
22	1.0	5.0	7.8	3.8	8.1	12	8.6	3.1	2.1	1.9	.90	.95
23	1.1	4.4	7.3	3.8	7.2	11	8.0	3.0	2.0	1.8	.82	1.1
24	1.0	25	6.8	3.8	6.8	11	8.0	2.7	2.2	1.6	.93	.95
25	1.2	12	6.4	3.4	6.4	11	8.0	2.9	1.9	1.5	.82	.95
26	1.2	7.7	6.3	3.4	6.3	106	8.1	2.8	1.8	1.5	.82	.95
27	1.1	100	6.3	3.4	6.3	116	7.8	3.1	1.9	1.5	.82	.97
28	1.1	61	5.9	4.1	6.3	66	7.7	2.9	1.9	1.5	.82	1.1
29	1.2	21	5.5	4.2	---	44	6.9	2.8	2.8	1.5	.82	1.1
30	1.4	14	5.5	3.8	---	35	6.5	2.6	2.9	1.5	.87	.97
31	1.4	---	5.2	3.8	---	30	---	2.7	---	1.6	.95	---
TOTAL	65.8	400.7	322.5	170.0	652.1	867.1	367.8	129.2	71.2	56.3	35.60	33.84
MEAN	2.12	13.4	10.4	5.48	23.3	28.0	12.3	4.17	2.37	1.82	1.15	1.13
MAX	20	100	27	18	304	116	26	6.3	3.6	2.7	1.6	2.7
MIN	1.0	1.4	5.2	3.4	3.6	5.9	6.5	2.6	1.8	1.5	.82	.83
AC-FT	131	795	640	337	1290	1720	730	256	141	112	71	67

CAL YR 1984	TOTAL	2895.0	MEAN	7.91	MAX	100	MIN	1.0	AC-FT	5740
WTR YR 1985	TOTAL	3172.14	MEAN	8.69	MAX	304	MIN	.82	AC-FT	6290

11160300 ZAYANTE CREEK AT ZAYANTE, CA

LOCATION.--Lat 37°05'10", long 122°02'45", in SE 1/4 sec.2, T.10 S., R.2 W., Santa Cruz County, Hydrologic Unit 18060001, on left bank at downstream side of bridge on Zayante Road in town of Zayante, 0.4 mi upstream from Lompico Creek, 2.0 mi east of Ben Lomond, and 3.2 mi upstream from mouth.

DRAINAGE AREA.--11.1 mi^2.

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

GAGE.--Water-stage recorder and steel plate low flow control. Elevation of gage is 390 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Jan. 14, 1979, at datum 0.12 ft higher.

REMARKS.--Estimated daily discharges: Jan. 23 to Feb. 7. Records good except for estimated daily discharges, which are fair. No known regulation; small diversion above station for individual use.

AVERAGE DISCHARGE.--28 years, 12.2 ft^3/s, 8,840 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,620 ft^3/s, Jan. 14, 1978, gage height, 8.52 ft, from rating curve extended above 1,200 ft^3/s on basis of slope-area measurement at gage height 7.70 ft, maximum gage height, 8.86 ft, Jan. 4, 1982; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 450 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 8	1015	*455	*3.78				

Minimum daily, 0.30 ft^3/s, Sept. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.57	.90	4.7	2.6	1.8	2.8	6.8	2.5	1.5	.73	.53	.30
2	.58	1.6	4.9	2.6	2.2	3.3	6.3	2.5	1.6	.66	.49	.30
3	.59	2.3	5.8	2.5	1.9	2.7	5.8	2.4	1.6	.66	.46	.32
4	.62	1.2	4.5	2.4	1.7	2.7	5.6	2.3	1.4	.63	.45	.37
5	.60	1.1	4.5	2.4	1.6	5.3	5.2	2.3	1.4	.61	.46	.54
6	.62	2.4	4.1	2.4	1.6	11	5.0	2.3	1.3	.57	.48	.44
7	.60	1.8	3.8	4.0	6.0	15	5.2	2.2	1.3	.59	.48	.43
8	.59	3.6	3.7	4.2	119	7.7	5.2	2.2	1.2	.54	.45	.73
9	.59	1.7	3.7	3.2	20	6.0	5.0	2.1	1.2	.52	.46	.89
10	.59	1.9	7.3	3.0	10	17	4.8	2.3	1.1	.51	.46	.61
11	1.5	3.4	4.9	2.7	7.9	14	4.7	2.2	1.1	.64	.57	.54
12	.87	4.6	4.3	2.7	6.6	9.8	4.5	2.1	1.1	.68	.79	.49
13	.76	19	3.8	2.6	5.8	8.1	4.2	2.0	1.1	.62	.84	.47
14	.93	3.5	3.6	2.6	5.2	7.0	3.9	2.0	1.1	.61	1.8	.45
15	.76	2.9	7.0	2.3	4.9	6.3	3.8	1.9	.95	.62	3.1	.45
16	3.2	27	6.8	2.3	4.6	5.8	3.8	1.9	1.0	.61	2.5	.44
17	2.5	6.6	5.5	2.2	4.4	5.6	4.0	1.9	.96	.57	.41	.47
18	1.1	4.7	5.0	2.2	4.1	6.4	3.6	1.9	.99	.58	.43	.48
19	1.0	3.3	4.6	2.3	3.9	5.4	3.4	1.8	.98	.57	.40	.45
20	.94	3.1	4.2	2.1	3.7	5.1	3.4	1.8	1.0	.62	.40	.43
21	.90	2.8	3.9	2.1	3.5	4.7	3.9	1.7	1.0	.69	.40	.43
22	.87	2.4	3.7	2.1	3.4	4.6	3.5	1.7	1.0	.62	.41	.42
23	.84	2.2	3.5	2.0	3.3	4.4	3.3	1.7	.98	.60	.40	.41
24	.84	8.8	3.3	2.0	3.2	4.2	3.1	1.6	1.0	.55	.40	.41
25	.83	5.0	3.2	1.9	3.0	4.0	3.0	1.6	.99	.55	.37	.40
26	.81	3.7	3.4	1.9	3.0	30	2.8	1.6	.88	.57	.36	.40
27	.83	51	3.2	1.9	2.8	27	2.8	1.8	.84	.53	.36	.61
28	.84	24	3.0	2.2	2.8	20	2.8	1.7	.80	.51	.34	.58
29	.90	8.2	2.8	2.0	---	12	2.7	1.6	.77	.51	.34	.43
30	1.0	5.6	2.7	1.8	---	9.1	2.7	1.5	.81	.50	.34	.48
31	.95	---	2.7	1.8	---	7.7	---	1.5	---	.53	.32	---
TOTAL	29.12	210.30	132.1	75.0	241.9	274.7	124.8	60.6	32.95	18.30	20.00	14.17
MEAN	.94	7.01	4.26	2.42	8.64	8.86	4.16	1.95	1.10	.59	.65	.47
MAX	3.2	51	7.3	4.2	119	30	6.8	2.5	1.6	.73	3.1	.89
MIN	.57	.90	2.7	1.8	1.6	2.7	2.7	1.5	.77	.50	.32	.30
AC-FT	58	417	262	149	480	545	248	120	65	36	40	28

CAL YR 1984 TOTAL 1582.53 MEAN 4.32 MAX 51 MIN .56 AC-FT 3140
WTR YR 1985 TOTAL 1233.94 MEAN 3.38 MAX 119 MIN .30 AC-FT 2450

11160500 SAN LORENZO RIVER AT BIG TREES, CA

LOCATION.--Lat 37°02'40", long 122°04'17", in Zayante Grant, Santa Cruz County, Hydrologic Unit 18060001, on right bank 20 ft upstream from bridge on Henry Cowell State Park Road, 200 ft upstream from Shingle Mill Creek, 0.3 mi downstream from Zayante Creek, 0.9 mi northwest of Big Trees station on Southern Pacific Railroad, and 5.3 mi northwest of Santa Cruz.

DRAINAGE AREA.--106 mi^2.

PERIOD OF RECORD.--October 1936 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1315-B: 1938(M). WSP 1715: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 227.00 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 6, 1972, at site 1.3 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Low flow partially regulated by Loch Lomond Reservoir since 1961, capacity, 8,820 acre-ft, and by a fiber dam located 500 ft upstream of gage. Many small diversions above station for domestic supply.

AVERAGE DISCHARGE.--49 years, 138 ft^3/s, 99,980 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,400 ft^3/s, Dec. 23, 1955, gage height, 22.55 ft, site and datum then in use, from rating curve extended above 11,000 ft^3/s on basis of slope-area measurement of maximum flow; maximum gage height, 28.85 ft, Jan. 5, 1982; minimum, 0.8 ft^3/s, regulated, June 25, 1939; minimum daily, 5.6 ft^3/s, July 27, 28, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,800 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 8	1100	*3,290	*11.69				

Minimum daily, 12 ft^3/s, Aug. 28, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	18	100	49	35	48	141	48	32	21	17	13
2	15	48	106	48	40	62	127	46	35	20	16	13
3	16	52	133	46	38	50	117	45	35	19	16	13
4	18	29	91	46	36	48	109	44	33	18	16	13
5	17	23	88	45	34	85	101	43	31	18	15	14
6	17	68	79	45	33	164	96	44	30	18	15	14
7	17	45	71	77	95	237	92	43	29	18	15	14
8	17	92	65	77	1160	123	87	42	28	18	15	21
9	17	39	62	57	347	96	83	42	27	18	14	21
10	16	60	181	68	195	240	80	44	27	18	15	19
11	36	111	120	61	146	239	77	44	27	17	15	18
12	27	114	93	49	121	164	74	41	26	17	16	16
13	22	334	80	46	106	136	71	40	26	17	16	15
14	21	74	71	44	95	117	68	39	26	19	15	15
15	18	54	166	43	87	105	65	38	26	18	15	14
16	132	309	174	43	82	95	65	37	25	16	15	15
17	113	129	126	41	76	93	69	38	25	17	15	14
18	31	96	109	40	71	113	65	36	25	17	15	14
19	26	62	97	39	66	90	62	37	25	17	15	14
20	20	56	86	39	64	84	60	37	25	18	15	14
21	18	51	78	39	61	78	74	36	25	19	15	14
22	17	44	73	39	58	74	64	35	24	18	14	13
23	16	40	70	38	56	71	59	34	24	20	14	14
24	16	206	66	37	54	69	56	33	24	17	13	14
25	16	106	63	36	53	68	55	33	24	17	13	14
26	17	71	64	36	51	410	53	33	23	17	14	14
27	16	384	60	37	50	499	52	35	23	16	15	16
28	16	410	57	44	49	327	51	36	21	17	12	14
29	18	180	54	41	---	236	49	34	21	16	13	14
30	18	124	52	37	---	188	49	33	21	16	12	15
31	18	---	51	35	---	161	---	32	---	16	13	---
TOTAL	798	3429	2786	1422	3359	4570	2271	1202	793	548	454	446
MEAN	25.7	114	89.9	45.9	120	147	75.7	38.8	26.4	17.7	14.6	14.9
MAX	132	410	181	77	1160	499	141	48	35	21	17	21
MIN	15	18	51	35	33	48	49	32	21	16	12	13
AC-FT	1580	6800	5530	2820	6660	9060	4500	2380	1570	1090	901	885

CAL YR 1984 TOTAL 25429 MEAN 69.5 MAX 410 MIN 11 AC-FT 50440
WTR YR 1985 TOTAL 22078 MEAN 60.5 MAX 1160 MIN 12 AC-FT 43790

11161300 CARBONERA CREEK AT SCOTT'S VALLEY, CA

LOCATION.--Lat 37°03'02", long 120°00'45", in San Augustin Grant, Santa Cruz County, Hydrologic Unit 18060001, on right bank at east city limits of Scott's Valley, 1.1 mi upstream from Glen Canyon Road, 3.3 mi east of Felton, and 4.1 mi upstream from Branciforte Creek.

DRAINAGE AREA.--3.60 mi^2.

PERIOD OF RECORD.--February to September 1985.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 550 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Record began Feb. 7. No regulation or diversion upstream of gage.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 8	0915	*412	*6.42				

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, FEBRUARY TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					---	1.0	3.3	.64	.30	0		0
2					---	2.2	2.8	.64	.58	0		0
3					---	.89	2.4	.56	.43	0		0
4					---	1.1	2.1	.57	.34	0		0
5					---	14	1.8	.59	.30	0		0
6					---	19	1.8	.63	.28	0		0
7					14	9.7	1.6	.59	.27	0		0
8					124	4.5	1.5	.62	.24	0		1.3
9					14	3.6	1.3	.59	.23	0		.44
10					7.0	19	1.3	1.0	.23	0		.23
11					5.0	11	1.2	.65	.22	.10		.15
12					3.9	6.0	1.1	.51	.22	0		.03
13					3.3	4.4	1.2	.53	.23	.11		0
14					2.7	3.5	.91	.48	.20	0		0
15					2.4	3.0	.96	.44	.17	0		0
16					2.0	2.6	1.1	.44	.18	0		0
17					1.8	3.7	2.0	.43	.18	0		0
18					1.7	3.9	.99	.39	.17	0		0
19					1.7	2.3	.88	.36	.15	0		0
20					1.5	2.0	.83	.35	.23	.01		.19
21					1.4	1.8	2.2	.40	.21	.01		.20
22					1.2	1.6	.98	.47	.19	0		.18
23					1.0	1.5	.79	.43	.16	0		.21
24					1.0	1.3	.77	.42	.16	0		.18
25					1.1	1.3	.69	.36	.19	0		.17
26					1.0	71	.69	.42	.08	0		.19
27					1.0	24	.69	.37	.01	0		.21
28					.95	11	.73	.40	0	0		.18
29					---	6.8	.71	.35	0	0		.15
30					---	4.9	.67	.36	0	0		.16
31					---	4.1	---	.36	---	0		---
TOTAL					---	246.69	39.99	15.35	6.15	0.23	0	4.17
MEAN					---	7.96	1.33	.50	.20	.007	0	.14
MAX					---	71	3.3	1.0	.58	.11	0	1.3
MIN					---	.89	.67	.35	0	0	0	0
AC-FT					---	489	79	30	12	.5	0	8.3

11161800 SAN VICENTE CREEK NEAR DAVENPORT, CA

LOCATION.--Lat 37°03'19", long 122°10'52", on east boundary of San Vicente Grant, Santa Cruz County, Hydrologic Unit 18060001, on right bank, 0.6 mi downstream from small right-bank tributary, 1.2 mi upstream from Mill Creek, and 3.1 mi north of Davenport.

DRAINAGE AREA.--6.07 mi^2.

PERIOD OF RECORD.--October 1969 to September 1985 (discontinued).

GAGE.--Water-stage recorder and concrete dam. Elevation of gage is 740 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. No regulation or diversion above station.

AVERAGE DISCHARGE.--16 years, 9.38 ft^3/s, 6,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,280 ft^3/s, Jan. 4, 1982, gage height, 8.90 ft; no flow Sept. 9-18, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 8	1015	*151	*4.19				

Minimum daily, 1.2 ft^3/s, Oct. 9-10, Aug. 30-31, Sept. 1-2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.7	6.3	3.9	3.0	4.2	12	4.7	3.2	2.2	1.7	1.2
2	1.3	4.2	6.3	3.9	3.2	4.6	11	4.6	3.7	2.2	1.6	1.2
3	1.3	4.0	6.5	3.7	3.1	4.2	10	4.5	3.3	2.2	1.6	1.3
4	1.4	2.5	5.6	3.6	3.1	4.2	9.8	4.5	3.2	2.1	1.6	1.4
5	1.4	2.2	5.4	3.6	3.0	5.2	9.3	4.4	3.1	2.1	1.5	1.5
6	1.3	4.9	5.0	3.6	3.0	8.1	9.2	4.3	3.1	2.0	1.5	1.4
7	1.3	3.4	4.7	4.4	6.6	9.4	8.6	4.3	3.0	2.0	1.5	1.4
8	1.3	4.7	4.4	4.3	54	6.7	8.2	4.2	3.0	2.0	1.5	2.1
9	1.2	3.1	4.5	4.0	21	5.9	7.8	4.1	2.9	1.9	1.5	1.8
10	1.2	3.8	9.4	3.9	13	11	7.5	4.4	2.8	1.9	1.5	1.6
11	2.2	7.2	6.7	3.7	11	12	7.3	4.2	2.8	2.0	1.5	1.6
12	1.4	7.9	5.9	3.6	9.2	9.7	7.0	4.1	2.8	2.0	1.6	1.5
13	1.4	15	5.5	3.6	8.1	8.5	6.8	4.0	2.8	2.0	1.6	1.5
14	1.3	5.8	5.1	3.5	7.3	7.7	6.6	3.9	2.7	1.9	1.5	1.4
15	1.3	4.5	10	3.4	6.6	7.1	6.4	3.8	2.6	1.9	1.5	1.4
16	7.2	8.3	10	3.4	6.3	6.9	6.4	3.9	2.6	1.9	1.5	1.4
17	3.6	6.3	8.2	3.3	5.9	6.8	6.5	3.8	2.5	1.9	1.5	1.4
18	2.2	6.0	7.3	3.2	5.6	8.4	6.3	3.8	2.5	1.9	1.5	1.5
19	2.2	4.8	6.6	3.2	5.4	7.1	6.1	3.7	2.6	1.9	1.5	1.4
20	2.1	4.5	6.1	3.2	5.2	6.7	6.0	3.6	2.6	1.9	1.5	1.4
21	1.9	4.1	5.7	3.2	5.0	6.3	6.5	3.5	2.6	2.0	1.5	1.3
22	1.9	3.7	5.4	3.2	4.9	6.1	6.0	3.5	2.6	1.9	1.4	1.3
23	1.8	3.6	5.2	3.1	4.7	5.9	5.8	3.4	2.5	1.8	1.4	1.3
24	1.7	13	5.0	3.0	4.6	5.7	5.5	3.4	2.5	1.8	1.4	1.4
25	1.7	8.6	4.7	3.0	4.5	5.6	5.4	3.4	2.5	1.7	1.3	1.3
26	1.7	6.4	4.8	3.0	4.4	28	5.2	3.6	2.4	1.7	1.3	1.3
27	1.7	13	4.5	3.0	4.4	31	5.2	3.6	2.4	1.7	1.3	1.5
28	1.7	19	4.4	3.4	4.2	20	5.0	3.6	2.3	1.7	1.3	1.5
29	1.9	11	4.2	3.2	---	17	4.9	3.4	2.2	1.7	1.3	1.4
30	1.9	7.5	4.2	3.0	---	14	4.8	3.3	2.2	1.7	1.2	1.5
31	1.8	---	4.1	3.0	---	13	---	3.3	---	1.7	1.2	---
TOTAL	57.6	194.7	181.7	107.1	220.3	297.0	213.1	120.8	82.0	59.3	45.3	43.2
MEAN	1.86	6.49	5.86	3.45	7.87	9.58	7.10	3.90	2.73	1.91	1.46	1.44
MAX	7.2	19	10	4.4	54	31	12	4.7	3.7	2.2	1.7	2.1
MIN	1.2	1.7	4.1	3.0	3.0	4.2	4.8	3.3	2.2	1.7	1.2	1.2
AC-FT	114	386	360	212	437	589	423	240	163	118	90	86

CAL YR 1984	TOTAL	2100.2	MEAN	5.74	MAX	24	MIN	1.2	AC-FT 4170
WTR YR 1985	TOTAL	1622.1	MEAN	4.44	MAX	54	MIN	1.2	AC-FT 3220

11162500 PESCADERO CREEK NEAR PESCADERO, CA

LOCATION.--Lat 37°15'39", long 122°19'40", in SW 1/4 sec.5, T.8 S., R.4 W., San Mateo County, Hydrologic Unit 18050006, on left bank at downstream side of highway bridge, 3.0 mi east of Pescadero, and 5.3 mi upstream from mouth.

DRAINAGE AREA.--45.9 mi^2.

PERIOD OF RECORD.--April 1951 to current year.

REVISED RECORDS.--WSP 1445: 1952-53(M). WSP 1715: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 62.3 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 23 to Jan. 7. Records fair. Minor regulation from swimming pools in San Mateo County Memorial Park and Portola State Park during summer months. Small diversions above station by pumping.

AVERAGE DISCHARGE.--34 years, 44.5 ft^3/s, 32,240 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,420 ft^3/s, Dec. 23, 1955, gage height, 21.27 ft, from rating curve extended above 2,700 ft^3/s on basis of slope-area measurement of peak flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 27	2200	811	6.17	Feb. 8	1200	*1,680	*8.72

Minimum daily, 1.7 ft^3/s, Aug. 13, 14 and Sept. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	4.9	33	14	7.1	19	47	12	8.0	2.8	3.1	1.8
2	2.9	4.7	29	13	8.3	21	41	12	8.3	3.0	3.5	2.1
3	6.0	7.7	36	13	9.6	20	36	12	9.2	2.8	3.3	2.1
4	3.6	8.7	28	13	8.9	20	33	12	8.3	2.8	2.9	2.4
5	3.1	6.0	26	13	8.0	23	30	11	7.4	2.8	2.4	3.0
6	3.1	5.9	23	13	8.0	55	28	11	6.6	2.5	2.4	2.8
7	3.0	8.7	21	14	9.7	124	26	11	3.9	2.4	2.3	3.1
8	2.8	11	19	19	634	69	25	11	6.2	2.1	2.1	3.5
9	2.7	12	18	16	201	49	24	11	6.0	2.3	2.1	6.3
10	2.6	9.8	31	15	95	71	23	11	5.7	2.1	2.2	7.8
11	9.0	17	32	14	67	89	22	12	5.5	1.9	2.1	5.6
12	9.5	21	27	13	53	65	21	11	5.3	2.5	1.8	4.0
13	5.2	101	24	12	45	54	20	10	5.0	2.8	1.7	3.7
14	3.9	32	22	11	40	47	19	9.4	4.9	2.9	1.7	3.5
15	3.6	20	60	11	36	42	18	8.8	5.0	3.0	2.1	3.5
16	7.9	51	101	10	34	38	18	8.3	4.8	2.9	2.1	3.3
17	32	45	68	9.7	32	36	18	7.8	4.6	2.3	2.1	3.1
18	11	30	50	9.4	30	42	17	7.5	4.2	2.4	2.1	3.1
19	7.2	24	39	9.4	28	37	18	7.5	4.3	2.2	2.1	8.0
20	6.1	20	32	9.1	27	34	16	7.8	4.2	2.5	2.1	3.2
21	5.7	19	31	8.9	26	32	16	7.6	4.4	3.0	1.9	3.1
22	5.1	16	28	8.9	24	30	16	7.4	4.6	3.1	2.1	2.8
23	4.6	13	25	8.5	23	29	15	7.1	4.3	3.0	2.4	2.4
24	4.4	27	23	8.5	22	28	15	7.2	3.8	2.4	2.4	2.4
25	4.2	30	21	8.2	22	27	14	7.3	3.8	2.3	2.4	2.3
26	4.2	23	19	8.0	21	70	13	8.2	4.1	2.1	2.4	2.3
27	4.2	145	18	8.0	20	235	13	8.8	3.8	2.2	2.0	2.1
28	4.2	228	17	8.3	20	128	13	8.9	3.7	2.1	2.1	1.7
29	5.0	69	16	8.8	---	92	13	8.4	3.1	2.7	1.8	2.3
30	5.8	43	15	8.0	---	69	12	7.8	3.0	2.4	1.8	2.4
31	5.6	---	14	7.5	---	56	---	7.9	---	2.9	1.8	---
TOTAL	180.8	1053.4	946	343.2	1559.6	1751	640	290.7	156.0	79.2	69.3	99.7
MEAN	5.83	35.1	30.5	11.1	55.7	56.5	21.3	9.38	5.20	2.55	2.24	3.32
MAX	32	228	101	19	634	235	47	12	9.2	3.1	3.5	8.0
MIN	2.6	4.7	14	7.5	7.1	19	12	7.1	3.0	1.9	1.7	1.7
AC-FT	359	2090	1880	681	3090	3470	1270	577	309	157	137	198

CAL YR 1984 TOTAL 7913.8 MEAN 21.6 MAX 280 MIN 2.0 AC-FT 15700
WTR YR 1985 TOTAL 7168.9 MEAN 19.6 MAX 634 MIN 1.7 AC-FT 14220

11162570 SAN GREGORIO CREEK AT SAN GREGORIO, CA

LOCATION.--Lat 37°19'33", long 122°23'08", in San Gregorio Grant, San Mateo County, Hydrologic Unit 18050006, on right bank at downstream side of bridge on Old Coast Highway, 0.1 mi south of town of San Gregorio, and 1.4 mi upstream from mouth.

DRAINAGE AREA.--50.9 mi^2.

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 11.40 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Oct. 1-23, Dec. 17 to Jan. 8, Jan. 18 to Feb. 5, Feb. 7-8, Aug. 13 to Sept. 5, and Sept. 27-28. Records fair except for estimated record periods, which are poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--16 years, 43.2 ft^3/s, 31,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,910 ft^3/s, Jan. 4, 1982, gage height, 21.28 ft; no flow many days in 1972 and 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 27	2045	1,270	6.29	Feb. 8	1100	*2,470	*8.86
Dec. 15	1430	1,020	5.69				

Minimum daily, 0.24 ft^3/s, Aug. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	5.2	41	16	9.2	14	58	9.9	5.7	1.6	.89	.25
2	2.0	5.1	40	16	11	16	47	9.6	8.6	1.2	.85	.27
3	1.9	9.0	48	15	13	14	40	8.9	10	.72	.50	.29
4	1.9	7.6	31	15	11	14	36	8.3	6.7	.80	.64	.32
5	1.8	6.1	31	14	10	22	31	8.3	5.8	.81	.43	.36
6	1.8	6.3	29	14	9.9	71	28	8.2	5.1	.89	.37	.42
7	1.8	8.4	22	45	20	116	26	7.7	4.6	2.3	.32	.52
8	2.4	22	19	22	1200	51	24	7.3	4.4	1.7	.36	.92
9	2.0	16	18	18	228	36	23	7.3	4.3	1.0	.32	1.5
10	1.8	15	62	16	110	50	21	7.9	4.3	1.0	.33	1.4
11	11	43	37	14	73	71	20	8.1	3.7	1.2	.31	1.0
12	14	63	29	13	56	45	19	7.6	3.2	1.4	.28	1.1
13	6.0	395	24	13	45	36	18	7.3	2.9	1.4	.25	.94
14	4.0	54	19	13	38	32	17	6.9	3.1	1.5	.24	.71
15	3.0	26	364	12	33	29	16	6.7	3.1	1.2	.28	1.1
16	19	67	227	11	30	26	16	5.9	3.3	1.1	.28	1.2
17	50	47	100	11	27	25	15	5.8	3.2	1.1	.28	.87
18	16	47	72	10	24	45	15	5.7	2.7	.91	.28	.60
19	8.5	30	57	10	22	30	14	6.1	2.7	1.1	.28	.72
20	6.1	31	48	10	21	26	14	6.2	2.9	1.2	.28	.98
21	4.9	28	40	10	19	25	14	5.8	2.5	1.6	.26	1.0
22	4.4	19	35	10	18	22	15	5.4	2.3	1.5	.27	.89
23	4.1	15	31	9.7	17	21	13	5.4	2.4	1.2	.32	.88
24	3.8	61	28	9.4	16	19	12	5.1	2.1	1.1	.32	.72
25	3.6	37	25	9.2	15	19	12	5.3	1.8	.91	.32	.62
26	3.5	26	23	9.2	15	195	12	7.3	1.8	.73	.32	.46
27	3.5	305	21	10	14	228	11	8.4	1.8	.87	.32	.51
28	3.6	289	20	12	14	188	11	8.2	1.9	.84	.28	.58
29	8.5	95	19	13	---	115	11	6.9	1.8	.87	.26	.67
30	9.9	57	18	11	---	84	10	5.6	2.0	.73	.25	.77
31	6.3	---	17	10	---	69	---	5.9	---	.81	.25	---
TOTAL	213.2	1835.7	1595	421.5	2119.1	1754	619	219.0	110.7	35.29	10.94	22.57
MEAN	6.88	61.2	51.5	13.6	75.7	56.6	20.6	7.06	3.69	1.14	.35	.75
MAX	50	395	364	45	1200	228	58	9.9	10	2.3	.89	1.5
MIN	1.8	5.1	17	9.2	9.2	14	10	5.1	1.8	.72	.24	.25
AC-FT	423	3640	3160	836	4200	3480	1230	434	220	70	22	45

CAL YR 1984	TOTAL	9007.9	MEAN	24.6	MAX	395	MIN	.90	AC-FT	17870
WTR YR 1985	TOTAL	8956.00	MEAN	24.5	MAX	1200	MIN	.24	AC-FT	17760

11162630 PILARCITOS CREEK AT HALF MOON BAY, CA

LOCATION (REVISED).--Lat 37°28'00", long 122°25'59", on north boundary of Miramontes Grant, San Mateo County, Hydrologic Unit 18050006, on left bank 50 ft downstream from State Highway 1, 0.3 mi northwest of town of Half Moon Bay, and 1.0 mi upstream from mouth.

DRAINAGE AREA.--27.2 mi^2.

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

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 25 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Nov. 17, 1983, at site 800 ft downstream at different datum.

REMARKS.--Estimated daily discharges: Dec. 13 to Jan. 7, Mar. 28 to Apr. 11, Apr. 21 to May 20, and June 6 to July 18. Records fair except for estimated record periods and discharges below 1.5 ft^3/s, which are poor. Flow slightly regulated by storage in Pilarcitos Lake 10 mi upstream, capacity, 3,100 acre-ft. Water is diverted to City of San Francisco Water System; small diversions for irrigation above station by pumping.

AVERAGE DISCHARGE (unadjusted).--19 years, 16.5 ft^3/s, 11,950 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,750 ft^3/s, Jan. 4, 1982, gage height, 13.08 ft, site and datum then in use; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 27	1715	359	4.81	Feb. 8	0945	*744	*6.74

No flow several days in Oct., Aug. and Sept.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	1.0	13	6.5	4.6	7.7	14	3.8	2.5	.54	2.3	0
2	0	1.3	14	6.3	4.8	7.8	13	3.7	3.8	.50	1.5	1.3
3	0	1.5	12	6.2	4.3	5.9	13	3.5	2.4	.48	.57	.92
4	0	1.2	10	5.9	3.8	6.2	12	3.4	2.4	.47	1.3	.42
5	0	.87	16	5.6	3.7	9.1	11	3.3	2.0	.45	1.6	.86
6	.07	1.9	11	12	3.7	16	11	3.2	1.7	.50	1.4	.58
7	.02	6.0	9.5	9.7	6.2	16	10	3.1	1.6	.80	.84	1.2
8	.16	18	8.6	8.2	252	12	9.5	3.1	1.5	.58	.67	4.5
9	.12	.97	8.5	7.8	66	11	8.9	3.0	1.4	.45	.48	4.0
10	.56	6.3	20	7.4	34	12	8.6	2.9	1.3	.37	.98	1.9
11	2.1	6.9	11	7.1	23	22	8.4	3.6	1.2	.54	1.0	2.2
12	.35	27	10	7.1	20	15	8.1	3.2	1.1	.65	1.9	.89
13	.26	62	9.5	7.1	17	14	7.8	2.9	1.1	.72	1.4	.17
14	.21	23	8.0	7.1	16	13	7.8	2.7	1.0	.55	.57	0
15	.13	16	38	6.9	15	13	7.7	2.5	1.0	.46	.36	.37
16	19	23	30	6.6	14	12	7.6	2.4	.96	.41	.51	.09
17	15	14	23	6.3	13	13	7.4	2.3	.91	.36	.43	.15
18	11	14	18	6.3	12	16	7.3	2.1	.87	.32	.74	.59
19	3.0	9.7	16	6.3	12	12	7.4	2.0	.84	.85	1.5	.07
20	1.9	13	14	6.3	11	11	7.1	1.9	.80	1.2	2.5	0
21	1.5	9.2	13	6.2	11	11	6.8	2.0	.77	.82	1.9	0
22	1.3	7.4	12	6.0	9.9	10	6.5	2.2	.74	1.9	.56	.03
23	1.5	6.9	11	6.0	9.3	10	6.0	2.5	.72	2.2	.04	.05
24	1.2	26	10	5.9	9.0	10	5.8	3.4	.70	1.5	.01	.20
25	1.2	11	9.8	5.7	8.5	10	5.4	3.6	.67	.91	1.6	0
26	1.4	7.0	9.1	5.7	8.0	42	5.1	3.9	.64	.35	2.7	0
27	1.4	70	8.7	5.6	7.8	41	4.8	3.6	.62	.68	2.5	.06
28	1.3	61	8.0	6.0	7.5	26	4.5	3.5	.60	.70	1.7	.14
29	3.5	25	7.5	4.8	---	18	4.3	2.6	.58	1.6	.61	.41
30	1.8	17	7.1	4.5	---	16	4.1	2.7	.56	1.1	.54	.55
31	1.3	---	6.7	4.2	---	15	---	2.5	---	1.7	0	---
TOTAL	71.28	488.14	403.0	203.3	607.1	453.7	240.9	91.1	36.98	24.66	34.71	21.65
MEAN	2.30	16.3	13.0	6.56	21.7	14.6	8.03	2.94	1.23	.80	1.12	.72
MAX	19	70	38	12	252	42	14	3.9	3.8	2.2	2.7	4.5
MIN	0	.87	6.7	4.2	3.7	5.9	4.1	1.9	.56	.32	0	0
AC-FT	141	968	799	403	1200	900	478	181	73	49	69	43

CAL YR 1984 TOTAL 2998.05 MEAN 8.19 MAX 70 MIN 0 AC-FT 5950
WTR YR 1985 TOTAL 2676.52 MEAN 7.33 MAX 252 MIN 0 AC-FT 5310

11162720 COLMA CREEK AT SOUTH SAN FRANCISCO, CA

LOCATION.--Lat 37°39'14", long 122°25'31", in Buri Buri Grant, San Mateo County, Hydrologic Unit 18050004, on left bank in Orange Memorial Park, 1.0 mi southwest of South San Francisco Post Office.

DRAINAGE AREA.--10.8 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is 12.53 ft above National Geodetic Vertical Datum of 1929. Recording rain gages at Skyline College, altitude, 700 ft at site 2.9 mi southwest of gaging station and on San Bruno Mountain, altitude, 930 ft at site 2.7 mi northwest of gaging station.

REMARKS.--Estimated daily discharges: June 1 to Sept. 30. Records fair except for period of estimated record (during channel improvements) which are poor. Low flow affected by return flow from urban irrigation.

AVERAGE DISCHARGE.--22 years, 7.66 ft^3/s, 5,550 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,880 ft^3/s, Jan. 16, 1973, gage height, 11.80 ft; no flow Oct. 5, 26, 1963 and many days in August 1985.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 900 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct. 16	1315	1,290	8.15	Dec. 9	2330	923	7.15
Nov. 12	2030	916	7.13	Mar. 6	2130	1,060	7.54
Nov. 27	1545	*1,610	*9.10				

No flow many days in August.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	1.7	3.5	1.7	6.2	1.5	1.7	1.0	2.5	1.4	.53	.08
2	3.0	11	27	1.7	1.0	9.7	1.5	1.4	10	1.5	.50	.86
3	2.5	2.5	3.9	7.7	.93	.93	1.4	1.4	2.3	1.8	.36	.74
4	2.1	2.1	4.9	.93	.93	5.9	1.4	1.1	2.3	1.8	.23	.64
5	2.1	2.5	35	.93	.91	45	1.3	1.1	1.4	1.8	.12	.66
6	2.1	15	5.6	.93	1.1	93	1.2	1.3	1.9	1.9	.05	.85
7	2.1	98	4.3	38	64	7.7	1.2	.95	1.8	1.9	.03	.74
8	2.1	18	3.5	1.3	153	1.8	1.2	1.3	1.8	1.8	.02	8.0
9	2.1	1.7	35	1.2	2.9	1.4	1.2	.98	1.4	1.8	.01	4.5
10	70	95	31	1.2	1.9	17	1.2	1.4	1.0	1.8	.01	2.6
11	8.7	4.2	3.5	1.1	1.3	34	1.1	.74	.92	1.6	0	1.5
12	2.1	165	3.7	.93	1.0	2.1	1.1	.82	.90	1.4	0	1.2
13	2.5	59	3.0	.93	.94	1.9	1.1	2.2	.86	1.3	0	1.2
14	2.1	4.1	3.0	.93	.93	1.7	1.1	1.7	.89	1.2	0	1.2
15	2.1	19	95	.93	.93	1.7	1.1	1.0	.90	1.0	0	1.2
16	148	42	7.9	.93	.93	1.7	1.1	1.2	.96	.90	0	1.2
17	3.5	24	4.1	.93	.93	19	1.1	1.2	.98	.86	0	1.1
18	2.7	4.8	7.2	1.1	.93	12	1.1	1.2	.98	.82	0	1.1
19	4.3	2.6	1.7	1.2	.93	1.2	1.1	1.2	1.0	.80	0	1.1
20	3.0	23	1.7	1.4	.93	1.2	1.2	1.2	1.6	2.5	0	1.1
21	2.6	2.1	1.7	1.4	1.0	.99	1.2	1.2	1.4	.85	0	1.2
22	2.4	2.1	1.7	1.7	.93	.93	1.3	1.2	1.4	.78	0	1.2
23	2.1	11	1.7	2.0	.93	.93	1.2	1.2	1.3	.74	0	1.2
24	2.1	28	1.7	2.0	.93	3.3	1.1	1.1	1.4	.74	0	1.1
25	2.1	4.1	1.7	1.8	.97	1.2	.93	.65	1.4	.70	0	1.1
26	3.7	2.1	18	12	.93	116	1.1	1.8	1.4	.64	0	1.1
27	3.0	123	3.3	1.2	1.1	10	1.2	.52	1.3	.64	0	1.0
28	3.0	10	2.7	29	.93	8.9	1.2	.59	1.3	.62	0	1.0
29	23	5.7	2.3	.93	---	3.0	1.6	1.0	1.4	.61	0	1.1
30	1.7	3.6	2.0	.77	---	2.5	1.0	1.6	1.4	.59	0	1.1
31	1.7	---	1.7	.74	---	3.0	---	2.7	---	.56	0	---
TOTAL	317.9	786.9	323.0	119.51	250.34	411.18	36.23	37.95	50.09	37.35	1.86	42.67
MEAN	10.3	26.2	10.4	3.86	8.94	13.3	1.21	1.22	1.67	1.20	.060	1.42
MAX	148	165	95	38	153	116	1.7	2.7	10	2.5	.53	8.0
MIN	1.7	1.7	1.7	.74	.91	.93	.93	.52	.86	.56	0	.08
AC-FT	631	1560	641	237	497	816	72	75	99	74	3.7	85
a	1.62	3.97	2.17	.54	.72	2.67	.06	.14	.23	.12	.01	.25
b	2.45	6.60	2.39	.91	1.66	4.11	.10	.10	.36	.09	.00	.65

CAL YR 1984 TOTAL 2469.50 MEAN 6.75 MAX 165 MIN .59 AC-FT 4900
WTR YR 1985 TOTAL 2414.98 MEAN 6.62 MAX 165 MIN 0 AC-FT 4790

a Precipitation, in inches, San Bruno Mountian gage.
b Precipitation, in inches, Skyline College gage.

11162800 REDWOOD CREEK AT REDWOOD CITY, CA

LOCATION.--Lat 37°26'58", long 122°13'57", in Pulgas Grant, San Mateo County, Hydrologic Unit 18050004, at Menlo Country Club, on right bank 200 ft upstream from Alameda de las Pulgas bridge, and 2.5 mi south of Redwood City Old Post Office.

DRAINAGE AREA.--1.82 mi^2.

PERIOD OF RECORD.--September 1959 to current year.

REVISED RECORDS.--WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 83.92 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Oct. 1-29. Records good. Low flow at times affected by return flow from urban irrigation.

AVERAGE DISCHARGE.--26 years, 1.20 ft^3/s, 869 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 644 ft^3/s, Jan. 31, 1963, gage height, 9.36 ft, from rating curve extended above 180 ft^3/s on basis of slope-area measurement of maximum flow and computation of maximum flow through culvert; maximum gage height, 11.55 ft, Nov. 29, 1970 (backwater from culvert trash racks); no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 130 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 8	0175	*205	*5.19				

Minimum daily, 0.01 ft^3/s, Sept. 21, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.09	.88	.56	.47	.64	.75	.23	.27	.10	.10	.02
2	.03	.82	4.3	.55	.48	1.0	.70	.23	.50	.10	.06	.06
3	.02	.17	1.4	.55	.42	.59	.66	.22	.25	.20	.05	.03
4	.04	.11	2.3	.68	.35	.71	.61	.24	.14	.23	.03	.02
5	.04	.08	4.7	.51	.34	1.4	.60	.24	.12	.28	.07	.02
6	.03	.67	1.6	.60	.34	3.4	.54	.23	.11	.25	.10	.03
7	.03	8.7	1.2	2.2	4.3	1.8	.50	.22	.10	.26	.03	.04
8	.02	2.5	.98	.96	55	.87	.48	.22	.10	.26	.03	.15
9	.03	.45	1.9	.75	2.7	.75	.48	.20	.09	.07	.02	.05
10	1.2	2.5	1.3	.64	1.6	2.1	.46	.49	.06	.14	.04	.05
11	5.3	.74	.95	.57	1.3	1.6	.43	.27	.04	.14	.03	.03
12	.09	20	.88	.55	1.2	.92	.40	.25	.05	.12	.03	.03
13	.05	4.7	.82	.53	1.1	.75	.40	.25	.06	.24	.02	.03
14	.04	1.0	1.1	.50	.96	.59	.40	.24	.05	.13	.04	.06
15	.03	1.7	4.3	.50	.93	.56	.38	.22	.07	.11	.04	.03
16	9.6	4.8	2.3	.48	.86	.53	.36	.20	.04	.14	.05	.03
17	.90	1.5	1.3	.46	.82	.55	.38	.22	.04	.19	.05	.03
18	.13	.98	.98	.49	.77	.77	.37	.22	.04	.16	.03	.02
19	.07	.72	.89	.47	.77	.50	.38	.20	.04	.03	.05	.02
20	.07	1.1	.79	.47	.77	.50	.35	.20	.04	.04	.03	.02
21	.10	.66	.74	.46	.83	.46	.37	.18	.04	.03	.03	.01
22	.05	.55	.71	.46	.78	.44	.32	.16	.04	.03	.03	.02
23	.04	2.2	.71	.46	.65	.42	.30	.16	.03	.04	.58	.02
24	.03	2.2	.66	.44	.65	.44	.27	.17	.03	.03	.48	.01
25	.04	1.3	.65	.44	.67	.41	.29	.17	.03	.06	.04	.02
26	.04	.79	1.5	.43	.65	20	.31	.16	.04	.03	.05	.02
27	.07	21	.78	.43	.63	7.4	.27	.17	.02	.03	.03	.03
28	.12	2.6	.68	.92	.63	3.9	.25	.16	.12	.02	.04	.02
29	.25	1.4	.63	.47	---	1.4	.25	.16	.23	.03	.02	.03
30	.06	1.1	.60	.42	---	1.0	.25	.14	.22	.03	.05	.05
31	.06	---	.60	.42	---	.86	---	.98	---	.09	.04	---
TOTAL	18.60	87.13	43.13	18.37	80.97	57.26	12.51	7.40	3.01	3.61	2.29	1.00
MEAN	.60	2.90	1.39	.59	2.89	1.85	.42	.24	.10	.12	.074	.033
MAX	9.6	21	4.7	2.2	55	20	.75	.98	.50	.28	.58	.15
MIN	.02	.08	.60	.42	.34	.41	.25	.14	.02	.02	.02	.01
AC-FT	37	173	86	36	161	114	25	15	6.0	7.2	4.5	2.0

CAL YR 1984	TOTAL	250.90	MEAN	.69	MAX	21	MIN	.02	AC-FT	498
WTR YR 1985	TOTAL	335.28	MEAN	.92	MAX	55	MIN	.01	AC-FT	665

11164500 SAN FRANCISQUITO CREEK AT STANFORD UNIVERSITY, CA

LOCATION.--Lat 37°25'24", long 122°11'18", in San Francisquito Grant, Santa Clara County, Hydrologic Unit 18050003, at golf course, on right bank 1.1 mi downstream from Los Trancos Creek, 1.1 mi west of Stanford University Post Office, and 5 mi downstream of Searsville Lake.

DRAINAGE AREA.--37.4 mi^2.

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 above National Geodetic Vertical Datum of 1929. Recording rain gage at 345 Middlefield Road in Menlo Park 2.5 mi northeast of gage.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Searsville Lake, capacity, 952 acre-ft. Diversions of about 800 acre-ft 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.

AVERAGE DISCHARGE.--46 years, 20.2 ft^3/s, 14,630 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,560 ft^3/s, Dec. 22, 1955, gage height, 13.60 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 8	1030	*2,270	*7.18				

Minimum daily, 0.22 ft^3/s, Aug. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.53	.55	13	5.5	2.9	5.7	18	1.6	.76	1.1	1.5	.35
2	.55	1.3	23	5.3	3.2	7.4	12	2.0	1.2	.64	1.5	.23
3	.53	1.4	22	5.3	2.9	6.1	7.5	2.0	1.4	.57	1.6	.32
4	.61	.72	12	5.5	2.8	6.2	5.6	1.4	.93	.64	1.4	.40
5	.72	.55	32	5.1	2.7	10	7.1	1.4	.94	.57	1.2	.49
6	.59	1.4	23	5.0	2.6	44	9.3	1.5	.84	.59	1.2	.56
7	.59	8.8	14	13	4.6	84	9.3	1.3	.71	.54	1.3	.86
8	.41	32	11	13	775	30	9.1	.98	.70	.59	1.3	.69
9	.52	3.7	9.2	8.0	125	19	8.5	.84	.48	.54	1.3	.57
10	.58	5.0	18	7.4	45	26	8.0	1.2	.52	.52	1.3	.40
11	4.1	8.1	12	6.5	27	28	7.2	1.4	.44	.70	1.2	.37
12	.43	33	8.5	6.6	18	18	25	1.1	.74	.64	1.1	.41
13	.58	129	7.3	6.3	14	13	12	1.3	.47	.50	.43	.30
14	.54	25	6.4	6.0	11	11	6.9	1.1	1.0	.37	.37	.31
15	.70	12	34	5.8	9.9	9.8	5.0	1.1	1.4	.35	.28	.29
16	22	36	49	5.0	9.3	9.4	2.5	.97	1.3	.50	.32	.29
17	5.0	21	22	4.7	8.4	9.0	2.5	.83	1.4	.53	.34	.39
18	.97	17	14	4.7	7.4	13	2.2	.84	1.2	.63	.25	.31
19	.62	11	12	4.5	6.5	10	2.2	.80	1.2	.55	.26	.31
20	.52	9.9	9.1	4.5	6.1	8.1	2.3	.55	1.0	.54	.33	.37
21	.48	8.4	8.3	4.5	6.1	7.9	2.4	.47	.89	.57	.32	.31
22	.49	6.0	7.3	4.5	6.0	7.3	2.2	.49	.87	.56	.34	.32
23	.44	5.6	6.7	4.5	5.5	6.7	1.3	.43	.81	.55	.39	.27
24	.39	26	6.2	4.5	5.8	6.6	1.6	.63	.77	.91	.28	.30
25	.44	17	5.7	4.3	6.9	6.3	1.7	.55	.78	.77	.22	.27
26	.47	10	8.3	4.3	6.8	153	1.6	.52	.71	.78	.26	.28
27	.54	144	7.3	4.2	6.4	195	1.8	.55	.68	.61	.29	.36
28	.59	139	5.9	6.0	6.0	119	1.8	.67	.63	.51	.39	.30
29	.81	33	5.6	5.8	---	48	1.8	.78	.65	1.2	.35	.30
30	.67	18	5.1	3.3	---	27	1.6	.66	.97	1.8	.43	.37
31	.62	---	5.8	3.1	---	21	---	.52	---	1.5	.39	---
TOTAL	47.03	764.42	423.7	176.7	1133.8	965.5	180.0	30.48	26.39	21.37	22.14	11.30
MEAN	1.52	25.5	13.7	5.70	40.5	31.1	6.00	.98	.88	.69	.71	.38
MAX	22	144	49	13	775	195	25	2.0	1.4	1.8	1.6	.86
MIN	.39	.55	5.1	3.1	2.6	5.7	1.3	.43	.44	.35	.22	.23
AC-FT	93	1520	840	350	2250	1920	357	60	52	42	44	22
a	1.36	4.99	1.49	.53	1.05	2.52	0	.01	.02	0	0	.03

CAL YR 1984 TOTAL 3807.46 MEAN 10.4 MAX 144 MIN .22 AC-FT 7550
WTR YR 1985 TOTAL 3802.83 MEAN 10.4 MAX 775 MIN .22 AC-FT 7540

a Precipitation in inches.

11166000 MATADERO CREEK AT PALO ALTO, CA

LOCATION.--Lat 37°25'18", long 122°08'04", in Rincon de San Francisquito Grant, Santa Clara County, Hydrologic Unit 18050003, on right bank on Ash Street 150 ft upstream from Lambert Avenue Bridge, and 2.1 mi southeast of Palo Alto Post Office.

DRAINAGE AREA.--7.26 mi^2.

PERIOD OF RECORD.--July 1952 to current year.

REVISED RECORDS.--WDR CA-80-2: 1971-74, 1978, 1971-72(P), WDR CA-82-2: 1973-74, 1978(P).

GAGE.--Water-stage recorder. Datum of gage is 22.07 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 25, 1958, at site 150 ft downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. No regulation or diversion above station.

AVERAGE DISCHARGE.--33 years, 2.36 ft^3/s, 1,710 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,500 ft^3/s, Jan. 24, 1983, gage height, 6.51 ft, from rating curve extended above 600 ft^3/s on basis of step-backwater computation at gage heights 7.63 ft and 8.00 ft and slope-conveyance computations at 5.97 ft and 6.87 ft; maximum gage height, 9.88 ft, Dec. 23, 1955, site and datum then in use (backwater from culvert); no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 8	0900	*197	*2.08				

Minimum daily, 0.04 ft^3/s, Nov. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.24	.06	.72	.70	.54	.57	1.1	.58	.39	.28	.62	.32
2	.35	.44	3.1	.66	.73	2.0	.92	.53	.72	.50	.29	.21
3	.30	.31	1.9	.73	.82	.51	.84	.51	.53	.18	.28	.18
4	.38	.07	.88	.71	.52	1.2	.81	.49	.44	.18	.27	.21
5	.38	.04	5.6	.82	.44	6.5	.78	.48	.53	.14	.29	.24
6	.33	1.0	1.1	.90	.47	14	.88	.50	.38	.16	.13	.40
7	.27	17	.74	4.8	1.7	9.1	.75	.59	.49	.14	.15	.26
8	.21	10	.66	1.7	64	2.0	.77	.55	.36	.14	.15	.97
9	.24	.42	.55	2.6	4.4	1.4	.82	.59	.31	.25	.32	.52
10	2.6	2.2	5.1	1.1	1.9	6.8	.75	.97	.34	.16	.26	.21
11	8.5	.54	.93	.82	1.3	2.2	.72	.64	.40	.28	.36	.25
12	.15	28	.65	.82	1.1	1.3	.72	.69	.50	.24	.21	.18
13	.08	15	.55	.87	.91	1.1	.72	.62	.62	.27	.20	.12
14	.07	.71	.55	.82	.74	.92	.73	.76	.53	.17	.31	.11
15	.05	1.5	9.2	.88	.73	.95	.74	.66	.38	.18	.27	.14
16	16	8.8	3.2	.74	.75	.85	.65	.74	.46	.25	.25	.11
17	1.5	.82	1.2	.65	.66	1.8	.63	1.1	.37	.17	.18	.25
18	.26	1.2	1.1	.73	.61	1.7	.62	.81	.31	.30	.20	.16
19	.11	.48	1.3	.78	.55	.78	.78	.90	.35	.23	.22	.15
20	.11	3.6	1.0	.88	.58	.92	.89	.63	.28	.31	.18	.27
21	.17	.57	.92	1.1	.54	.91	.92	.77	.35	.35	.20	.17
22	.08	.32	.92	.75	.56	.74	.71	.68	.26	.41	.21	.08
23	.06	.37	.92	.63	.65	.75	.57	.68	.25	.32	.24	.17
24	.05	5.0	.86	.64	.50	.92	.37	.53	.37	.32	.16	.16
25	.06	3.8	.82	.61	.50	.67	.36	.67	.44	.40	.14	.15
26	.06	.48	3.1	.62	.59	30	.34	.70	.42	.42	.19	.19
27	.12	32	1.0	.87	.55	16	.37	.60	.34	.22	.10	.21
28	.22	7.0	.89	4.5	.52	7.8	.28	.68	.31	.21	.20	.36
29	1.8	1.6	.82	.85	---	2.3	.44	.57	.23	.24	.18	.12
30	.17	.94	.82	.64	---	1.5	.62	.55	.19	.34	.33	.10
31	.07	---	.75	.50	---	1.2	---	.45	---	.35	.23	---
TOTAL	34.99	144.27	51.85	34.42	87.86	119.39	20.60	20.22	11.85	8.11	7.32	6.97
MEAN	1.13	4.81	1.67	1.11	3.14	3.85	.69	.65	.40	.26	.24	.23
MAX	16	32	9.2	4.8	64	30	1.1	1.1	.72	.50	.62	.97
MIN	.05	.04	.55	.50	.44	.51	.28	.45	.19	.14	.10	.08
AC-FT	69	286	103	68	174	237	41	40	24	16	15	14

CAL YR 1984	TOTAL	552.47	MEAN	1.51	MAX	32	MIN	.04	AC-FT	1100
WTR YR 1985	TOTAL	547.85	MEAN	1.50	MAX	64	MIN	.04	AC-FT	1090

11166575 PERMANENTE CREEK NEAR MONTA VISTA, CA

LOCATION.--Lat 37°19'43", long 122°05'03", in NW 1/4 NE 1/4 sec.16, T.7 S., R.2 W., Santa Clara County, Hydrologic Unit 18050003, on left bank on downstream side of private road brige, 0.8 mi upstream from West Fork Permanente Creek tributary, 1.5 mi northwest of Monte Vista, and 2.8 mi southwest of Los Altos.

DRAINAGE AREA.--3.86 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1984 to September 1985.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Elevation of gage is 380 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Some regulation of flow by rock quarry 1.1 mi above station. Record began on Oct. 26.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 40 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 12	2300	*51	*4.61	Nov. 27	1730	46	4.53

Minimum daily, 0.01 ft^3/s, Sept. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		.25	2.6	1.2	.79	.99	3.7	.98	.71	.39	.16	.02
2		.53	3.5	1.2	.82	1.2	3.5	.93	.80	.44	.06	.01
3		.38	3.2	1.1	.70	.83	3.2	.92	.80	.38	.11	.02
4		.32	3.2	1.4	.85	1.1	3.0	.96	.78	.27	.08	.06
5		.35	3.5	1.3	.62	2.8	2.9	.87	.71	.21	.13	.03
6		.97	2.3	1.0	.66	6.4	2.8	.87	.68	.19	.11	.03
7		2.0	2.2	1.9	.86	4.8	2.4	.82	.65	.19	.10	.04
8		3.1	1.9	1.1	11	3.4	2.3	.77	.57	.27	.14	.10
9		1.1	1.8	1.0	3.8	3.0	2.4	.81	.54	.19	.11	.21
10		1.9	2.9	.96	3.3	4.3	2.1	.97	.49	.09	.04	.09
11		1.3	1.9	.88	2.3	3.5	2.1	.82	.53	.07	.05	.17
12		9.3	1.6	.87	2.1	2.9	1.9	.78	.50	.06	.03	.10
13		9.3	1.5	.82	2.0	2.9	1.8	.81	.43	.16	.03	.10
14		2.8	1.5	.88	1.8	2.8	1.8	.80	.47	.06	.08	.08
15		2.0	3.0	.80	1.8	2.6	1.6	.72	.50	.05	.09	.06
16		4.9	1.9	.79	1.8	2.5	1.5	.72	.47	.03	.05	.08
17		2.3	1.6	.74	1.6	2.5	1.5	.72	.45	.19	.05	.06
18		2.3	1.5	.81	1.6	2.9	1.4	.72	.45	.09	.07	.06
19		1.5	1.6	.72	1.5	2.7	1.6	.78	.72	.04	.04	.05
20		1.7	1.6	.67	1.4	2.3	1.5	.70	.75	.11	.07	.04
21		1.8	1.3	.69	1.5	2.2	1.4	.68	.50	.16	.09	.04
22		1.6	1.3	.75	1.5	2.0	1.4	.90	.43	.37	.07	.30
23		1.6	1.3	.64	1.4	1.9	1.4	.68	.42	.18	.07	.23
24		2.3	1.2	.67	1.3	1.8	1.4	.64	.69	.30	.08	.08
25		2.1	1.2	.76	1.4	1.9	1.2	.66	.35	.17	.04	.05
26	.20	1.6	1.4	.77	1.3	8.6	1.2	.68	.50	.13	.17	.04
27	.23	9.6	1.3	.77	1.2	6.1	1.1	.68	.41	.12	.34	.08
28	.17	5.3	1.2	1.3	1.2	5.3	1.1	.71	.57	.28	.28	.05
29	.38	4.1	1.1	.82	---	4.0	1.2	.69	.49	.42	.07	.04
30	.25	3.2	1.2	.68	---	3.8	1.1	.70	.43	.27	.04	.05
31	.25	---	1.2	.67	---	4.0	---	.74	---	.13	.03	---
TOTAL		81.50	58.5	28.66	52.10	98.02	57.5	24.23	16.79	6.01	2.88	2.37
MEAN		2.72	1.89	.92	1.86	3.16	1.92	.78	.56	.19	.093	.079
MAX		9.6	3.5	1.9	11	8.6	3.7	.98	.80	.44	.34	.30
MIN		.25	1.1	.64	.62	.83	1.1	.64	.35	.03	.03	.01
AC-FT		162	116	57	103	194	114	48	33	12	5.7	4.7

11166575 PERMANENTE CREEK NEAR MONTA VISTA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1984 to September 1985.
WATER TEMPERTURES: October 1984 to September 1985.
SEDIMENT RECORDS: November 1984 to September 1985.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1984 to September 1985.
SEDIMENT RECORDS: November 1984 to September 1985.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,480 mg/L, Nov. 27; minimum daily mean, 0 mg/L many days.
SEDIMENT LOAD: Maximum daily, 212 tons, Nov. 27; minimum daily, 0 ton many days.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	6.0	---	18.0	---	---	---		---
2	---	---	---	---	---	---	---	---	---	---		---
3	---	---	11.5	---	---	---	18.0	---	---	---		---
4	---	---	---	8.5	9.0	---	---	---	---	---		---
5	---	---	11.5	---	---	9.5	---	---	---	---		16.5
6	---	---	12.5	---	10.5	---	---	---	---	---		---
7	---	14.0	---	---	11.0	---	---	---	---	---		---
8	---	13.0	---	9.5	10.5	---	---	---	---	---		---
9	---	---	---	---	---	---	---	---	---	---		---
10	---	---	12.0	---	---	---	---	---	---	---		---
11	---	---	---	8.0	---	---	---	---	---	19.0		---
12	---	17.0	---	---	---	14.0	---	---	---	---		---
13	---	13.0	---	---	---	---	---	15.5	---	---		---
14	---	---	10.5	---	14.0	12.0	---	---	---	---		---
15	---	13.0	11.0	---	---	12.0	---	---	---	---		---
16	---	---	---	9.5	---	---	---	---	---	---		---
17	---	---	---	---	---	12.5	---	---	---	---		---
18	---	---	---	---	---	13.0	---	---	24.0	---		---
19	---	---	---	---	---	14.0	15.0	---	---	---		---
20	---	12.0	9.5	---	---	15.0	---	---	23.0	---		---
21	---	---	---	9.5	---	---	---	---	---	---		---
22	---	---	---	9.0	---	---	---	---	---	---		---
23	---	11.0	---	9.0	---	---	---	---	---	---		---
24	---	---	---	9.0	---	---	---	17.0	---	---		---
25	---	---	---	9.5	---	---	---	---	16.5	---		---
26	13.5	11.0	8.5	---	---	10.0	---	---	23.0	---		---
27	---	12.5	---	---	---	---	---	---	---	---		---
28	---	---	---	10.0	---	---	---	---	23.0	---		---
29	---	---	---	---	---	18.0	---	---	---	---		---
30	13.5	13.0	---	---	---	---	---	---	---	---		---
31	---	---	10.0	---	---	---	---	---	---	---		---
MONTH	---	---	---	---	---	---	---	---	---	---		---

11166575 PERMANENTE CREEK NEAR MONTA VISTA, CA--Continued

TOTAL-SEDIMENT DISCHARGE, WATER YEAR NOVEMBER 1984 TO SEPTEMBER 1985

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1			---	.00	150	1.1	8	.03	9	.02	56	.15
2			---	.01	400	5.8	16	.05	30	.07	92	.30
3			---	.01	145	1.3	26	.08	14	.03	65	.15
4			---	.01	108	.93	38	.14	64	.15	60	.18
5			---	.01	238	2.7	35	.12	60	.10	353	6.2
6			---	.05	139	.86	34	.09	110	.20	831	39
7			291	6.1	153	.91	413	3.4	184	.43	480	6.2
8			776	15	129	.66	280	.83	2300	123	180	1.7
9			150	.45	118	.57	100	.27	310	3.2	120	.97
10			260	2.6	364	4.4	79	.20	153	1.4	468	9.6
11			110	.39	86	.44	57	.14	107	.66	289	3.2
12			1380	126	57	.25	38	.09	91	.52	115	.90
13			1520	71	46	.19	32	.07	83	.45	73	.57
14			115	.87	35	.14	27	.06	78	.38	50	.38
15			90	.49	529	9.7	22	.05	76	.37	56	.39
16			718	20	120	.62	17	.04	74	.36	54	.36
17			140	.87	48	.21	15	.03	72	.31	49	.33
18			85	.53	33	.13	15	.03	70	.30	46	.36
19			78	.32	32	.14	15	.03	68	.28	20	.15
20			284	1.6	32	.14	15	.03	66	.25	16	.10
21			67	.33	32	.11	14	.03	64	.26	8	.05
22			65	.28	32	.11	15	.03	63	.26	8	.04
23			65	.28	32	.11	6	.01	62	.23	7	.04
24			270	3.2	32	.10	4	.01	61	.21	7	.03
25			68	.39	31	.10	4	.01	60	.23	6	.03
26			83	.36	30	.11	4	.01	59	.21	1010	67
27			2480	212	24	.08	4	.01	58	.19	150	2.5
28			560	8.0	19	.06	25	.09	57	.18	60	.86
29			300	3.3	13	.04	21	.05	---	---	27	.29
30			160	1.4	7	.02	17	.03	---	---	22	.23
31			---	---	3	.01	13	.02	---	---	22	.24
TOTAL			---	475.85	---	32.04	---	6.08	---	134.25	---	142.50

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	26	.26	14	.04	14	.03		.00		.00	2	.00
2	22	.21	14	.04	14	.03		.00		.00	2	.00
3	25	.22	14	.03	16	.03		.00		.00	2	.00
4	26	.21	13	.03	16	.03		.00		.00	2	.00
5	25	.20	14	.03	17	.03		.00		.00	2	.00
6	25	.19	14	.03	18	.03		.00		.00	2	.00
7	24	.16	13	.03	19	.03		.00		.00	2	.00
8	24	.15	14	.03	18	.03		.00		.00	---	.00
9	24	.16	13	.03	16	.02		.00		.00	---	.00
10	22	.12	13	.03	13	.02		.00		.00	---	.00
11	20	.11	13	.03	11	.02		.00		.00	---	.00
12	18	.09	12	.03	9	.01		.00		.00	---	.00
13	18	.09	12	.03	7	.01		.00		.00	---	.00
14	18	.09	12	.03	6	.01		.00		.00	---	.00
15	16	.07	12	.02	6	.01		.00		.00	---	.00
16	16	.06	11	.02	6	.01		.00		.00	---	.00
17	16	.06	11	.02	5	.01		.00		.00	---	.00
18	15	.06	11	.02	2	.00		.00		.00	---	.00
19	14	.06	11	.02	2	.00		.00		.00	---	.00
20	14	.06	11	.02	2	.00		.00		.00	---	.00
21	14	.05	10	.02	2	.00		.00		.00	---	.00
22	14	.05	10	.02	2	.00		.00		.00	---	.00
23	14	.05	10	.02	2	.00		.00		.00	---	.00
24	14	.05	10	.02	251	1.0		.00		.00	---	.00
25	14	.05	10	.02	162	.15		.00		.00	---	.00
26	14	.05	11	.02	19	.03		.00		.00	---	.00
27	14	.04	11	.02	---	.00		.00		.00	---	.00
28	14	.04	12	.02	---	.00		.00		.00	---	.00
29	14	.05	12	.02	---	.00		.00		.00	---	.00
30	14	.04	13	.02	---	.00		.00		.00	---	.00
31	---	---	13	.03	---	---		.00		.00	---	---
TOTAL	---	3.10	---	0.79	---	1.54		0.00		0.00	---	0.00

TOTAL LOAD FOR YEAR: 796.15 TONS.

11166575 PERMANENTE CREEK NEAR MONTA VISTA, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF TOTAL SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, TOTAL (MG/L)	SEDI-MENT, DISCH, SUSP. + BED MA-TERIAL (T/DAY)	SED. TOTAL, FALL DIAM. % FINER THAN .002 MM	SED. TOTAL, FALL DIAM. % FINER THAN .004 MM	SED. TOTAL, FALL DIAM. % FINER THAN .008 MM
DEC								
15...	1315	11.0	12	3380	110	35	51	66
MAR								
05...	1450	9.5	3.5	334	3.2	57	72	85
26...	1545	10.0	14	2230	84	50	68	80

DATE	SED. TOTAL, FALL DIAM. % FINER THAN .016 MM	SED. TOTAL, FALL DIAM. % FINER THAN .031 MM	SED. TOTAL, SIEVE DIAM. % FINER THAN .062 MM	SED. TOTAL, SIEVE DIAM. % FINER THAN .125 MM	SED. TOTAL, SIEVE DIAM. % FINER THAN .250 MM	SED. TOTAL, SIEVE DIAM. % FINER THAN .500 MM	SED. TOTAL, SIEVE DIAM. % FINER THAN 1.00 MM	SED. TOTAL, SIEVE DIAM. % FINER THAN 2.00 MM
DEC								
15...	79	86	89	91	93	96	99	100
MAR								
05...	92	94	95	99	100	--	--	--
26...	88	91	94	95	96	98	99	100

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
NOV								
08...	1025	20	13.0	3490	188	38	50	64
12...	1945	36	13.0	4520	439	37	50	65
FEB								
08...	0920	32	10.5	8020	693	43	53	65
08...	1025	27	10.5	6130	447	41	52	68

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
NOV							
08...	79	90	94	97	99	100	--
12...	77	86	91	95	98	100	--
FEB							
08...	77	88	94	97	99	100	--
08...	81	90	94	96	98	99	100

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	STREAM-FLOW, INSTAN-TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
APR												
19...	1400	--	3	1.3	1	1	2	4	13	41	82	10

11166575 PERMANENTE CREEK NEAR MONTA VISTA, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	STREAM-FLOW, INSTAN-TANEOUS (CFS)	STREAM WIDTH (FT)	SEDI-MENT DIS-CHARGE, BEDLOAD (TONS/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
FEB 08...	1040	10.5	7	22	11.0	18	1
MAR 26...	1600	10.5	6	18	10.8	15	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM
FEB 08...	9	16	22	33	52	80	100
MAR 26...	4	9	17	35	64	90	100

11166578 WEST FORK PERMANENTE CREEK NEAR MONTA VISTA, CA

LOCATION.--Lat 37°19'59", long 122°05'58", in NE 1/4 SW 1/4 sec.8, T.7 S., R.2 W., Santa Clara County, Hydrologic Unit 18050003, on left bank 0.9 mi upstream from mouth, 2.6 mi northwest of Monte Vista, and 2.7 mi south of Los Altos.

DRAINAGE AREA.--2.98 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1984 to September 1985.

GAGE.--Water-stage recorder and wooden control. Elevation of gage is 420 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 1 to Nov. 1. Records fair above 0.17 ft^3/s and poor below.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5.0 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 26	1730	*2.2	*4.71				

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	.14	.78	.39	.23	.08		
2					0	.17	.78	.37	.23	.07		
3					0	.17	.79	.35	.23	.07		
4					0	.17	.78	.37	.20	.07		
5					0	.17	.78	.37	.20	.07		
6					0	.40	.71	.35	.20	.06		
7					0	.91	.71	.35	.18	.06		
8					.07	.62	.71	.33	.18	.04		
9					.09	.60	.71	.33	.17	.04		
10					.09	.68	.65	.33	.17	.03		
11					.10	.65	.64	.33	.17	.02		
12					.10	.60	.60	.33	.17	.01		
13					.12	.60	.54	.31	.17	0		
14					.12	.54	.54	.31	.17	0		
15					.14	.52	.54	.31	.17	0		
16					.17	.49	.54	.31	.17	0		
17					.17	.49	.54	.31	.14	0		
18					.17	.52	.54	.31	.20	0		
19					.20	.52	.54	.31	.14	0		
20					.17	.52	.54	.31	.14	0		
21					.17	.49	.54	.31	.14	0		
22					.17	.49	.54	.31	.14	0		
23					.17	.49	.49	.27	.12	0		
24					.17	.49	.44	.27	.12	0		
25					.17	.49	.44	.27	.11	0		
26					.17	.96	.44	.27	.10	0		
27					.17	1.1	.39	.27	.10	0		
28					.14	1.1	.39	.23	.09	0		
29					---	.84	.39	.23	.09	0		
30					---	.78	.39	.23	.09	0		
31					---	.78	---	.23	---	0		
TOTAL	0	0	0	0	3.04	17.49	17.41	9.57	4.73	0.62	0	0
MEAN	0	0	0	0	.11	.56	.58	.31	.16	.020	0	0
MAX	0	0	0	0	.20	1.1	.79	.39	.23	.08	0	0
MIN	0	0	0	0	0	.14	.39	.23	.09	0	0	0
AC-FT	0	0	0	0	6.0	35	35	19	9.4	1.2	0	0

WTR YR 1985 TOTAL 52.86 MEAN .14 MAX 1.1 MIN 0 AC-FT 105

11166578 WEST FORK PERMANENTE CREEK NEAR MONTA VISTA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February to September 1985.
WATER TEMPERATURES: March to September 1985.
SEDIMENT RECORDS: February to September 1985.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: March to September 1985.
SEDIMENT RECORDS: February to September 1985.

REMARKS.--Sediment samples were collected on most days where a water temperature is published. No flow Oct. 1 to Feb. 7, July 13 to Sept. 30. All samples were taken at the lip of an artificial control.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 24 mg/L, Mar. 7; minimum daily mean, 2 mg/L on several days in March and July.
SEDIMENT LOAD: Maximum daily, 0.06 ton, Mar. 7; minimum daily, 0 ton on many days.

TEMPERATURE (DEG. C) OF WATER, MARCH TO SEPTEMBER 1985
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						---	14.0	---	---	---		
2						---	---	---	---	---		
3						---	15.5	11.0	---	---		
4						---	---	---	---	---		
5						11.5	---	18.0	13.0	---		
6						---	---	---	---	---		
7						---	15.0	---	---	---		
8						---	---	---	---	---		
9						---	---	---	---	---		
10						---	14.0	---	---	---		
11						---	---	---	---	18.0		
12						10.0	---	---	---	---		
13						10.0	---	15.0	---	---		
14						---	---	---	---	---		
15						---	---	---	---	---		
16						---	---	---	---	---		
17						---	---	---	---	---		
18						12.0	---	---	---	---		
19						---	14.0	---	---	---		
20						---	---	---	---	---		
21						---	---	---	---	---		
22						10.0	13.0	---	---	---		
23						---	---	13.0	---	---		
24						---	---	---	---	---		
25						---	---	---	14.0	---		
26						11.0	10.0	---	---	---		
27						---	---	---	---	---		
28						---	---	---	---	---		
29						---	---	14.5	---	---		
30						---	---	---	---	---		
31						---	---	---	---	---		
MONTH						---	---	---	---	---		

11166578 WEST FORK PERMANENTE CREEK NEAR MONTA VISTA, CA--Continued

TOTAL-SEDIMENT DISCHARGE, FEBRUARY TO SEPTEMBER 1985

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1									0	.00	8	.00
2									0	.00	7	.00
3									0	.00	6	.00
4									0	.00	5	.00
5									0	.00	3	.00
6									0	.00	10	.03
7									0	.00	24	.06
8									10	.00	18	.03
9									11	.00	16	.03
10									11	.00	15	.03
11									13	.00	5	.01
12									15	.00	4	.01
13									16	.01	2	.00
14									17	.01	2	.00
15									17	.01	2	.00
16									17	.01	2	.00
17									16	.01	2	.00
18									15	.01	3	.00
19									15	.01	2	.00
20									16	.01	2	.00
21									17	.01	2	.00
22									16	.01	2	.00
23									15	.01	2	.00
24									13	.01	2	.00
25									11	.01	2	.00
26									11	.01	8	.04
27									10	.00	9	.03
28									10	.00	6	.02
29									---	---	6	.01
30									---	---	7	.01
31									---	---	8	.02
TOTAL									---	0.14	---	0.33

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	9	.02	7	.01	8	.00	4	.00				
2	8	.02	6	.01	8	.00	4	.00				
3	6	.01	6	.01	8	.00	4	.00				
4	6	.01	7	.01	7	.00	3	.00				
5	6	.01	9	.01	7	.00	3	.00				
6	7	.01	10	.01	7	.00	2	.00				
7	8	.02	10	.01	8	.00	2	.00				
8	8	.02	10	.01	7	.00	2	.00				
9	9	.02	10	.01	7	.00	2	.00				
10	9	.02	10	.01	7	.00	2	.00				
11	9	.02	9	.01	7	.00	2	.00				
12	8	.01	9	.01	7	.00	2	.00				
13	8	.01	10	.01	7	.00	0	.00				
14	8	.01	10	.01	6	.00	0	.00				
15	7	.01	10	.01	6	.00	0	.00				
16	7	.01	10	.01	6	.00	0	.00				
17	7	.01	10	.01	6	.00	0	.00				
18	7	.01	10	.01	6	.00	0	.00				
19	9	.01	11	.01	6	.00	0	.00				
20	9	.01	11	.01	6	.00	0	.00				
21	8	.01	11	.01	6	.00	0	.00				
22	9	.01	12	.01	6	.00	0	.00				
23	9	.01	12	.01	6	.00	0	.00				
24	10	.01	12	.01	6	.00	0	.00				
25	10	.01	11	.01	6	.00	0	.00				
26	10	.01	10	.01	6	.00	0	.00				
27	10	.01	10	.01	6	.00	0	.00				
28	9	.01	9	.01	6	.00	0	.00				
29	8	.01	9	.01	5	.00	0	.00				
30	7	.01	9	.01	5	.00	0	.00				
31	---	---	8	.00	---	---	0	.00				
TOTAL	---	0.37	---	0.30	---	0.00	---	0.00				

TOTAL LOAD FOR YEAR: 1.14 TONS.

11166578 WEST FORK PERMANENTE CREEK NEAR MONTA VISTA, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	STREAM-FLOW, INSTAN-TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
APR 19...	1540	14.0	2	0.49	1	2	5	29	79	100

RESERVOIRS IN GUADALUPE RIVER BASIN, CA

11166740 CALERO RESERVOIR.--Lat 37°11'00", long 121°47'28", in San Vicente Grant, Santa Clara County, Hydrologic Unit 18050003, at center of dam on Arroyo Calero, 1.7 mi northeast of New Almaden, and 6 mi southeast of Edenvale. DRAINAGE AREA, 6.93 mi^2. PERIOD OF RECORD, January 1936 to current year. Monthly contents prior to October 1959, published in WSP 1735. REVISED RECORDS, WDR CA-79-2: Drainage area. GAGE, nonrecording gage read once daily. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Santa Clara Valley Water District).

Reservoir is formed by earthfill dam completed to crest elevation 482.55 ft in 1936 and raised to 483.5 ft in 1962. Capacity, 10,160 acre-ft between elevations 393.7 ft, center of outlet tunnel and 483.5 ft, crest of spillway. Water released down Arroyo Calero for ground-water recharge by percolation and minor irrigation. Up to 100 ft^3/s diverted from Almaden Reservoir to Calero Reservoir at times. For WATER-QUALITY RECORDS, see following page. Record of contents furnished by Santa Clara Valley Water District.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 10,520 acre-ft, Apr. 7, 1967, elevation, 485.21 ft; no contents at times in some years.

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 5,560 acre-ft, Aug. 2, elevation, 468.2 ft; minimum observed, 1,850 acre-ft, Nov. 26-27, elevation, 438.0 ft.

11167980 LEXINGTON RESERVOIR.--Lat 37°12'06", long 121°59'17", in SE 1/4 sec.29, T.8 S., R.1, W., Santa Clara County, Hydrologic Unit 18050003, at center of dam on Los Gatos Creek, and 1.7 mi south of Los Gatos. DRAINAGE AREA, 36.9 mi^2. PERIOD OF RECORD, December 1952 to current year. Monthly contents prior to October 1959, published in WSP 1735. GAGE, nonrecording gage read once daily. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Santa Clara Valley Water District).

Reservoir is formed by earthfill dam completed in 1952. Capacity, 20,210 acre-ft between elevations 519 ft, invert at outlet tunnel and 649.9 ft, crest of spillway. Dead storage, 31 acre-ft. Water released down Los Gatos Creek for irrigation and ground-water recharge by percolation. Record of contents furnished by Santa Clara Valley Water District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 23,190 acre-ft, Mar. 16, 1967, elevation, 654.00 ft; no contents at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 6,700 acre-ft, Oct. 1, elevation, 604.6 ft; minimum observed, no contents Aug. 1 to Sept. 30.

MONTHEND CONTENTS, IN ACRE-FEET (INCLUDING MOMENTARY STORAGE ABOVE SPILLWAY CREST) AT 0800, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

Date	Calero Reservoir	Lexington Reservoir
Sept. 30, 1984	3,320	6,700
Oct. 31	3,120	3,370
Nov. 30	1,890	3,460
Dec. 31	2,240	3,980
Jan. 31, 1985	2,500	4,280
Feb. 28	3,380	4,830
Mar. 31	4,650	5,610
Apr. 30	4,500	5,050
May 31	4,130	3,840
June 30	3,770	1,550
July 31	5,520	144
Aug. 31	4,560	0
Sept. 30	3,890	0

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1981 to current year.
BIOLOGICAL DATA: Water years 1981 to current year.

AT DAM (Lat 37°10'57", long 121°47'25", T.9 S., R.2 E., Santa Clara County, Hydrologic Unit 18050003)

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	SAMPLING DEPTH (M)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	BAROMETRIC PRESSURE (MM OF HG)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY								
01...	1044	.50	381	8.5	18.5	750	9.0	98
01...	1045	1.0	383	8.6	18.5	750	9.0	98
01...	1046	2.0	386	8.5	18.0	750	9.0	97
01...	1047	3.0	388	8.4	17.0	750	8.8	93
01...	1048	4.0	388	8.4	17.0	750	8.4	88
01...	1049	5.0	384	8.4	16.5	750	8.4	87
01...	1050	6.0	384	8.3	16.0	750	8.2	85
01...	1051	7.0	385	7.9	15.0	750	7.2	72
01...	1052	8.0	384	7.6	14.0	750	6.7	66
01...	1053	9.0	384	7.5	13.0	750	6.4	62
01...	1054	10.0	385	7.5	12.5	750	6.7	64
01...	1055	11.0	382	7.4	12.0	750	6.4	61
01...	1056	12.0	380	7.2	12.0	750	5.8	55
01...	1057	13.0	379	7.2	12.0	750	5.2	49
01...	1058	14.0	380	7.2	12.0	750	5.1	48
01...	1059	15.0	382	7.2	12.0	750	5.0	47
01...	1100	16.0	382	7.2	12.0	750	5.0	47
01...	1101	17.0	382	7.3	12.0	750	5.0	47
01...	1102	18.0	384	7.3	12.0	750	5.0	47
01...	1103	19.0	384	7.3	12.0	750	5.0	47
JUN								
12...	1050	.50	402	8.2	23.5	750	--	--
12...	1051	1.0	403	8.2	23.5	750	--	--
12...	1052	2.0	403	8.2	23.5	750	--	--
12...	1053	3.0	402	8.2	23.5	750	--	--
12...	1054	4.0	402	8.2	23.5	750	--	--
12...	1055	5.0	408	8.1	22.0	750	--	--
12...	1056	6.0	407	7.9	20.5	750	--	--
12...	1057	7.0	406	7.8	19.0	750	--	--
12...	1058	8.0	405	7.6	18.5	750	--	--
12...	1059	9.0	405	7.3	17.5	750	--	--
12...	1100	10.0	398	7.1	15.5	750	--	--
12...	1101	11.0	396	7.1	14.5	750	--	--
12...	1102	12.0	396	7.2	13.5	750	--	--
12...	1103	13.0	390	7.2	13.0	750	--	--
12...	1104	14.0	388	7.2	13.0	750	--	--
12...	1105	15.0	388	7.2	12.5	750	--	--
JUL								
23...	0938	.50	425	8.4	23.0	750	7.4	88
23...	0939	1.0	425	8.4	23.0	750	7.3	86
JUL								
23...	0940	2.0	425	8.4	22.5	750	7.4	87
23...	0941	3.0	424	8.4	22.5	750	7.2	85
23...	0942	4.0	433	8.0	20.5	750	3.7	42
23...	0943	5.0	435	7.9	19.5	750	3.0	33
23...	0944	6.0	438	7.8	18.5	750	3.3	36
23...	0945	7.0	440	7.9	18.0	750	3.7	40
23...	0946	8.0	442	7.9	18.0	750	4.0	43
23...	0947	9.0	442	7.9	17.5	750	3.7	39
23...	0948	10.0	442	7.9	17.5	750	3.8	40
23...	0949	11.0	441	7.9	17.5	750	3.5	37
23...	0950	12.0	440	7.8	17.0	750	3.5	37
23...	0951	13.0	436	7.8	17.0	750	2.8	29
23...	0952	14.0	432	7.7	16.5	750	2.3	24
23...	0953	15.0	424	7.7	16.5	750	1.6	17
23...	0954	16.0	418	7.6	16.0	750	.8	8

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT DAM--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	SAMPLING DEPTH (M)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	METRIC PRESSURE (MM OF HG)	OXYGEN, DISSOLVED (MG/L)	DISSOLVED (PERCENT SATURATION)
SEP								
10...	1020	.50	461	8.2	20.5	750	7.0	79
10...	1021	1.0	461	8.2	20.5	750	6.9	78
10...	1022	2.0	461	8.2	20.0	750	6.8	76
10...	1023	3.0	461	8.2	20.0	750	7.0	79
10...	1024	4.0	461	8.2	20.0	750	6.8	76
10...	1025	5.0	461	8.2	20.0	750	6.8	76
10...	1026	6.0	460	8.2	20.0	750	7.3	82
10...	1027	7.0	460	8.2	20.0	750	7.3	82
10...	1028	8.0	460	8.2	20.0	750	7.4	83
10...	1029	9.0	460	8.2	20.0	750	7.4	83
10...	1030	10.0	460	8.2	20.0	750	7.3	82
10...	1031	11.0	467	7.6	19.0	750	3.5	39
10...	1032	12.0	466	7.5	19.0	750	2.7	30
10...	1033	13.0	466	7.5	18.5	750	2.2	24
10...	1034	14.0	465	7.5	18.5	750	1.8	20
10...	1035	15.0	465	7.5	18.5	750	1.6	17

DATE	TIME	SAMPLING DEPTH (M)	LIGHT INCIDENT PERCENT REMAINING AT DEPTH
MAY			
01...	1145	.50	48.0
01...	1146	1.0	40.0
01...	1147	1.5	26.0
01...	1148	2.0	21.0
01...	1149	2.5	18.0
01...	1150	3.0	12.0
01...	1151	3.5	7.8
01...	1152	4.0	6.2
01...	1153	4.5	4.5
01...	1154	5.0	3.3
01...	1155	5.5	2.5
01...	1156	6.0	1.8
01...	1157	6.5	1.4
01...	1158	7.0	1.0

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M)
MAY		
01...	1403	2.90
JUN		
12...	1006	2.20
JUL		
23...	1019	.80
SEP		
10...	1130	3.9

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT DAM--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ALUMINUM, RECOV. FM BOTTOM MATERIAL (UG/G)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
JUN									
12...	1230	--	--	--	--	--	--	120	--
12...	1310	--	--	--	--	--	--	130	--
12...	1330	60	<10	--	1	1	--	120	<1
12...	1355	--	--	21000	--	--	10	--	--
JUL									
23...	1150	--	--	--	--	--	--	70	--
23...	1242	--	--	--	--	--	--	70	--
23...	1304	--	--	--	2	1	--	80	2
SEP									
10...	1320	--	<10	--	--	1	--	130	--

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)
JUN										
12...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--
12...	<1	--	10	<10	--	--	2	5	--	70
12...	--	<1	--	--	1600	20	--	--	67	--
JUL										
23...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
23...	1	--	<10	<10	--	--	5	2	--	180
SEP										
10...	2	--	--	<10	--	--	--	1	--	--

DATE	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)
JUN									
12...	3	--	--	--	--	--	--	--	--
12...	<3	--	--	--	--	--	--	--	--
12...	4	--	8	1	--	140	140	--	<.1
12...	--	36000	--	--	40	--	--	790	--
JUL									
23...	6	--	--	--	--	--	--	--	--
23...	3	--	--	--	--	--	--	--	--
23...	56	--	<1	1	--	70	--	--	<.1
SEP									
10...	20	--	--	1	--	--	110	--	--

DATE	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
JUN									
12...	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--
12...	<.1	--	<100	<1	--	--	<10	<3	--
12...	--	1.2	--	--	--	<1	--	--	90

See footnotes at end of table.

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT DAM--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	SAMPLING DEPTH (M)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	BAROMETRIC PRESSURE (MM OF HG)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
MAY											
01...	1420	1.0	368	8.6	750	<1	170	25	34	21	17
01...	1520	7.0	370	8.4	750	--	170	29	35	21	17
01...	1540	15.0	371	7.4	750	--	170	41	34	20	17
JUN											
12...	1230	1.0	403	8.2	750	--	180	24	34	22	18
12...	1310	5.0	408	8.1	750	--	180	25	34	22	18
12...	1330	14.0	388	7.2	750	--	160	20	33	20	17
JUL											
23...	1150	1.0	425	8.4	750	--	190	28	38	23	20
23...	1242	4.0	433	8.0	750	--	180	15	34	22	20
23...	1304	16.0	418	7.6	750	--	180	25	39	21	21
SEP											
10...	1150	1.0	461	8.2	750	--	200	29	42	23	22
10...	1255	11.0	467	7.6	750	--	200	32	43	23	22
10...	1320	15.0	465	7.5	750	--	200	32	43	23	22

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY FIELD (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)
MAY												
01...	18	.6	1.7	147	24	14	.10	3.8	200	.28	--	<.010
01...	17	.6	1.8	145	24	14	.10	5.3	210	.28	--	<.010
01...	18	.6	1.7	126	22	15	.10	13	200	.27	--	<.010
JUN												
12...	18	.6	1.7	--	22	17	.10	4.7	210	.29	--	<.010
12...	18	.6	1.7	--	21	18	.10	4.6	210	.29	--	<.010
12...	18	.6	1.6	--	22	16	.10	11	210	.28	.07	.030
JUL												
23...	18	.6	1.9	--	31	17	.10	7.4	240	.32	--	<.010
23...	20	.7	1.8	--	34	17	.30	8.0	230	.32	--	<.010
23...	20	.7	1.8	--	34	14	.10	10	240	.32	--	.010
SEP												
10...	19	.7	1.9	--	42	18	<.10	8.7	260	.35	--	<.010
10...	19	.7	1.8	--	46	16	.20	10	260	.36	--	<.010
10...	19	.7	1.9	--	45	20	.20	11	270	.36	--	<.010

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
MAY												
01...	<.10	<.10	.040	.030	.56	.37	.60	.40	--	.010	<.010	<.010
01...	<.10	<.10	.040	.040	.56	.26	.60	.30	--	.010	<.010	<.010
01...	.40	.45	.040	.040	.56	.56	.60	.60	1.0	.030	.030	.020
JUN												
12...	<.10	<.10	.040	.040	.36	.26	.40	.30	--	.020	.010	<.010
12...	<.10	<.10	.050	.040	.45	.26	.50	.30	--	.060	.010	<.010
12...	.10	.14	.100	.090	.30	.31	.40	.40	.50	.030	.030	.020
JUL												
23...	<.10	<.10	.040	.020	.26	.38	.30	.40	--	.050	<.010	<.010
23...	<.10	<.10	.030	.020	.27	.38	.30	.40	--	.020	<.010	<.010
23...	<.10	<.10	.140	.130	.16	.37	.30	.50	--	.030	.020	<.010
SEP												
10...	<.10	<.10	.060	.040	.34	.26	.40	.30	--	.020	.010	.010
10...	<.10	<.10	.030	.040	.47	.26	.50	.30	--	.020	.010	.010
10...	.10	.10	.080	.080	.42	.22	.50	.30	.60	.030	.040	.020

See footnotes at end of table.

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT DAM--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
JUL									
23...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
23...	<.1	--	--	<1	--	--	10	--	--
SEP									
10...	<.1	.80	<1	--	<1	--	--	10	--

DATE	TIME	SAM- PLING DEPTH (M)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	
MAY					
01...	1420	9	1.0	1.20	<.100
01...	1505	9	4.0	.900	<.100
01...	1520	9	7.0	1.00	<.100
JUL					
23...	1150	9	1.0	1.10	<.100
23...	1230	9	2.0	1.50	<.100
23...	1236	9	3.0	1.90	<.100
SEP					
10...	1150	9	1.0	1.00	<.100
10...	1235	9	3.0	1.10	<.100
10...	1240	9	5.0	<.100	<.100
10...	1245	9	7.0	1.20	<.100

< Actual value is known to be less than the value shown.

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued
AT DAM

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA,
WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

PHYTOPLANKTON

DATE	MAY 1, 1985			JUNE 12, 1985		
TIME	1420	1505	1520	1230	1304	1310
DEPTH (M)	1.0	4.0	7.0	1.0	3.0	7.0
TOTAL CELLS/ML	795	2953	1945	1532	8682	11460
ORGANISM	CELLS/ML	CELLS/ML	CELLS/ML	CELLS/ML	CELLS/ML	CELLS/ML
BACILLARIOPHYTA (Diatoms)						
Order Centrales						
Cyclotella ocellata	71	99	170	--	--	--
Order Pennales						
Fragilaria crotonensis	--	--	14	--	--	--
Nitzschia romana	--	--	--	--	57	--
Nitzschia sinuata var. tabellaria?	--	--	14	--	--	--
CHLOROPHYTA (Green algae)						
Ankistrodesmus sp.	--	--	--	57	57	192
Carteria sp.	--	--	--	28	28	--
Chlorococcum sp.	--	--	14	28	--	--
Cosmarium sp.	--	--	--	--	28	--
Eudorina sp.	--	--	--	--	--	341
Gloeocystis sp.	--	--	284	--	--	--
Mesotaenium sp.	--	--	--	28	--	--
Nephrocytium agardhianum	114	--	114	--	--	--
Oocystis lacustris	28	43	156	--	--	--
Pandorina charkowiensis	170	398	--	--	--	--
Pandorina morum	--	227	369	--	--	--
Pediastrum tetras f. evoluta	--	--	57	--	--	--
Schroederia judayi	--	--	--	--	28	28
Schroederia setigera	43	28	57	85	227	192
Sphaerocystis schroeteri	--	511	--	--	--	--
Staurastrum sp.	--	14	--	--	--	--
CHRYSOPHYTA (Golden-brown algae)						
Dinobryon divergens	--	--	--	511	199	426
Kephyrion sp.	--	--	--	57	192	--
small chrysophyte flagellate	--	--	--	--	28	--
CYANOPHYTA (Blue-green algae)						
Aphanocapsa delicatissima	--	--	--	--	1477	3181
Aphanothece sp.	--	1264	--	--	--	--
Chroococcus sp.	--	--	--	142	880	114
Dactylococcopsis sp.	--	--	14	--	--	--
Lyngbya nana	--	--	554	--	--	--
Merismopedia tenviusima	--	--	--	--	824	1931
Microcystis sp.	--	--	--	--	625	1136
Oscillatoria sp.	28	--	114	--	--	--
Pseudoanabaena sp.	--	142	--	--	--	--
Rhabdoderma sigmoidea f. minor	14	--	--	--	--	--
Synechococcus elongatus	--	--	--	--	--	85
Synechococcus sp.	--	--	--	369	3550	3522
CRYPTOPHYTA (Cryptomonads)						
Chroomonas sp.	--	--	--	199	454	256
Cryptomonas marsonii	--	--	--	--	--	28
Cryptomonas sp.	57	14	--	28	28	28
Rhodomonas sp.	270	213	14	--	--	--
NUMBER OF SPECIES	9	11	14	11	16	14

Phytoplankton analyzed by Chadwick & Associates.

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued
AT DAM--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA,
WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

PHYTOPLANKTON

DATE	JULY 23, 1985			SEPTEMBER 10, 1985			
TIME	1150	1230	1236	1150	1235	1240	1245
DEPTH (M)	1.0	2.0	3.0	1.0	3.0	5.0	7.0
TOTAL CELLS/ML	24782	34978	38656	11685	11899	27934	22336
ORGANISM	CELLS/ML	CELLS/ML	CELLS/ML	CELLS/ML	CELLS/ML	CELLS/ML	CELLS/ML
BACILLARIOPHYTA (Diatoms)							
Order Centrales							
Cyclotella sp.	824	653	483	14	--	--	--
Melosira granulata	--	14	--	--	142	--	--
Melosira sp.	7	--	--	--	--	--	--
Rhizosolenia eriensis	--	28	57	--	--	--	--
Order Pennales							
Navicula canalis	85	--	--	--	--	--	--
Nitzschia acicularis	28	85	--	--	--	--	--
Nitzschia palea	28	--	--	--	--	28	--
Nitzschia paleacea	--	--	--	14	--	28	--
Synedra rumpens	14	7	7	--	--	--	--
Synedra sp.	28	57	28	--	--	--	--
CHLOROPHYTA (Green algae)							
Ankistrodesmus braunii	--	--	--	--	--	28	--
Ankistrodesmus convolutus	28	--	--	--	--	--	--
Ankistrodesmus falcatus	--	28	57	--	--	--	--
Chlamydomonas sp.	--	--	--	14	85	--	--
Chlorococcum infusionum	369	1306	767	--	--	--	--
Chlorococcum sp.	--	--	--	199	511	483	540
Chlorogonium sp.	--	28	--	--	--	--	--
Chodatella quadriseta	57	--	--	--	--	--	--
Coelastrum sphaericum	--	--	114	199	--	--	--
Crucigenia tetrapedia	--	114	--	114	--	341	312
Dictyosphaerium sp.	--	--	--	--	142	--	--
Golenkinia radiata	--	--	28	--	--	--	--
Mestoaenium sp.	199	369	284	--	--	--	--
Nephrocytium sp.	--	--	28	--	--	--	--
Oocystis sp.	--	28	142	28	227	132	--
Pteromonas sp.	28	--	--	--	--	--	--
Scenedesmus abundans	--	114	--	--	--	--	--
Scenedesmus bijuga	28	--	--	--	--	--	--
Scenedesmus serratus	--	--	--	28	57	--	114
Scenedesmus sp.	--	170	170	28	57	--	--
Schroederia setigera	28	--	--	--	--	--	--
Selenastrum minutum	--	142	114	--	--	--	--
Sphaerocystis schroeteri	--	--	--	85	--	--	--
Tetraedron minimum	28	--	--	--	--	--	--
Tetraedron trigonum	114	85	142	--	--	--	--
Tetraedron sp.	--	--	--	14	--	28	--
Tetrastrum sp.	227	--	--	--	--	--	--
CHRYSOPHYTA (Golden-brown algae)							
Dinobryon divergens	227	28	85	--	--	--	--
Dinobryon sociale var. americanum	--	57	312	--	--	--	--
Kephyrion spirale	--	--	28	--	--	--	--
Kephyrion sp.	--	--	--	--	--	--	85
Mallomonas sp.	28	28	--	14	14	28	--
CYANOPHYTA (Blue-green algae)							
Anabaena sp.	568	909	--	--	--	--	--
Aphanocapsa delicatissima	18687	26639	30274	1477	1818	4771	738
Aphanothece sp.	454	--	--	8406	8037	19539	19823
Chroococcus dispersus	1534	2102	3351	270	199	937	341
Chroococcus limneticus	--	--	--	114	--	--	--
Chroococcus sp.	--	--	--	--	57	199	114
Dactylococcopsis fascicularis	85	28	142	--	--	--	--
Dactylococcopsis sp.	--	--	--	71	284	568	170
Microcystis sp.	--	--	--	511	--	--	--
Oscillatoria sp.	--	--	--	--	--	256	--
Synechococcus elongatus	966	1647	1874	--	--	--	--
Synechococcus lineare	--	57	--	--	--	--	--
Synechococcus sp.	57	28	--	28	85	227	--
EUGLENOPHYTA (Euglenoids)							
Euglena sp.	--	28	--	--	--	--	--
Trachelomonas sp.	28	57	--	--	--	--	--

Phytoplankton analyzed by Chacwick & Associates.

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued
AT DAM--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA,
WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

PHYTOPLANKTON

DATE	JULY 23, 1985			SEPTEMBER 10, 1985			
TIME	1150	1230	1236	1150	1235	1240	1245
DEPTH (M)	1.0	2.0	3.0	1.0	3.0	5.0	7.0
TOTAL CELLS/ML	24782	34978	38656	11685	11899	27934	22336
ORGANISM	CELLS/ML	CELLS/ML	CELLS/ML	CELLS/ML	CELLS/ML	CELLS/ML	CELLS/ML
BACILLARIOPHYTA (Diatoms)							
Order Pennales							
PYRROPHYTA (Dinoflagellates)							
Ceratium hirundinella	--	--	--	--	85	--	--
Glenodinium sp.	--	--	28	--	--	--	--
Peridinium sp.	28	--	28	--	--	--	--
CRYPTOPHYTA (Cryptomonads)							
Chroomonas sp.	--	85	85	57	85	341	85
Cryptomonas sp.	--	--	--	--	14	--	14
Rhodomonas minuta	--	57	28	--	--	--	--
NUMBER OF SPECIES	28	30	25	20	17	16	11

Phytoplankton analyzed by Chadwick & Associates.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL ANALYSES: October 1983 to current year.
BIOLOGICAL DATA: October 1983 to current year.

AT DAM (Lat 37°11'57", long 121°59'12", T.9 S., R.9 W., Santa Clara County, Hydrologic Unit 18050003)

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	SAMPLING DEPTH (M)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	BAROMETRIC PRESSURE (MM OF HG)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR								
30...	1103	.50	503	8.3	18.0	750	9.8	105
30...	1104	1.0	505	8.3	17.5	750	9.8	105
30...	1105	2.0	506	8.3	17.0	750	9.7	103
30...	1106	3.0	505	8.3	17.0	750	9.6	101
30...	1107	4.0	508	8.2	16.5	750	9.1	95
30...	1108	5.0	511	8.1	16.0	750	8.6	89
30...	1109	6.0	509	8.0	15.5	750	8.4	86
30...	1110	7.0	508	7.9	15.5	750	8.2	83
30...	1111	8.0	508	7.8	15.0	750	7.9	80
30...	1112	9.0	507	7.7	15.0	750	7.5	75
30...	1113	10.0	509	7.6	14.5	750	7.2	72
30...	1114	11.0	508	7.5	14.0	750	7.1	70
30...	1115	12.0	508	7.4	13.0	750	6.9	67
30...	1116	13.0	501	7.3	12.0	750	6.8	64
30...	1117	14.0	496	7.3	11.5	750	7.2	68
30...	1118	15.0	491	7.3	11.5	750	7.3	68
30...	1119	16.0	490	7.3	11.5	750	7.4	69
30...	1120	17.0	489	7.4	11.5	750	7.6	71
30...	1121	18.0	488	7.4	11.5	750	7.6	71
JUN								
11...	1118	.50	539	8.4	24.5	750	8.0	98
11...	1119	1.0	545	8.4	24.0	750	7.8	94
11...	1120	2.0	545	8.3	23.5	750	7.4	89
11...	1121	3.0	548	8.2	23.0	750	7.2	86
11...	1122	4.0	554	7.8	21.0	750	6.0	69
11...	1123	5.0	547	7.7	20.0	750	6.0	67
11...	1124	6.0	547	7.7	19.5	750	5.0	55
11...	1125	7.0	547	7.7	19.0	750	5.4	59
11...	1126	8.0	543	7.7	18.5	750	5.4	59
11...	1127	9.0	542	7.6	18.5	750	6.0	65
11...	1128	10.0	538	7.6	18.5	750	5.9	64
11...	1129	11.0	538	7.5	18.5	750	5.8	63
11...	1130	12.0	538	7.5	18.5	750	5.8	63
11...	1131	13.0	539	7.5	18.0	750	5.6	60
11...	1132	14.0	542	7.4	18.0	750	5.2	56

DATE	TIME	SAMPLING DEPTH (M)	LIGHT INCIDENT PERCENT REMAINING AT DEPTH
APR			
30...	1210	.5	36.0
30...	1211	1.0	21.0
30...	1212	1.5	8.4
30...	1213	2.0	5.2
30...	1214	2.5	3.2
30...	1215	3.0	1.8
30...	1216	3.5	1.0
JUN			
11...	1145	.5	12.0
11...	1146	1.0	4.4
11...	1147	1.5	1.4
11...	1148	1.7	1.0

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M)
APR		
30...	1226	.90
JUN		
11...	1207	.50

11167980 LEXINGTON RESERVOIR NEAR LOS GATOS, CA--Continued

AT DAM--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	SAMPLING DEPTH (M)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	BAROMETRIC PRESSURE (MM OF HG)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)
APR									
30...	1440	1.0	492	8.6	17.6	750	9.8	105	<1
30...	1540	12.0	493	8.0	13.0	750	6.9	67	--
30...	1600	16.0	487	7.7	11.4	750	7.4	69	--
JUN									
11...	1305	1.0	513	8.4	24.0	750	7.8	94	--
11...	1350	4.0	506	7.8	21.0	750	6.0	69	--
11...	1415	13.0	522	7.5	18.0	750	5.6	60	--

DATE	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY FIELD (MG/L AS CACO3)
APR										
30...	<1	220	66	57	20	18	15	.5	2.2	159
30...	--	220	64	56	20	18	15	.5	2.2	159
30...	--	220	72	55	20	17	14	.5	2.2	153
JUN										
11...	--	240	66	62	21	19	15	.6	2.0	176
11...	--	250	76	63	22	19	14	.5	2.3	172
11...	--	240	67	61	21	19	15	.6	2.0	172

DATE	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)
APR										
30...	84	12	.20	6.0	290	.40	--	<.010	<.10	<.10
30...	83	12	.20	7.3	290	.40	.09	.010	.10	.10
30...	79	11	.20	9.1	280	.38	.19	.010	.20	.21
JUN										
11...	94	11	.20	7.3	320	.44	--	<.010	<.10	<.10
11...	90	12	.20	7.4	320	.43	--	<.010	<.10	<.10
11...	91	11	.20	7.7	320	.43	--	<.010	<.10	<.10

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
APR										
30...	.030	.020	.77	.38	.80	.40	--	.010	<.010	<.010
30...	.070	.080	.53	.32	.60	.40	.70	.010	<.010	<.010
30...	.120	.120	.58	.38	.70	.50	.90	.020	<.010	--
JUN										
11...	.020	.030	.48	.37	.50	.40	--	.040	<.010	<.010
11...	.040	.020	.46	.28	.50	.30	--	.040	<.010	<.010
11...	.020	.020	.38	.28	.40	.30	--	.020	<.010	<.010

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ALUMINUM, RECOV. FM BOTTOM MATERIAL (UG/G)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
JUN									
11...	1305	410	10	--	<1	<1	--	70	<1
11...	1350	--	--	--	--	--	--	70	--
11...	1415	320	10	--	<1	<1	--	60	1
11...	1445	--	--	14000	--	--	10	--	--

See footnote at end of table.

11167980 LEXINGTON RESERVOIR NEAR LOS GATOS, CA--Continued

AT DAM--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	CADMIUM DIS-SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)
JUN									
11...	<1	--	10	<10	--	--	4	2	--
11...	--	--	--	--	--	--	--	--	--
11...	<1	--	10	<10	--	--	<1	1	--
11...	--	<1	--	--	450	10	--	--	41

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
JUN									
11...	560	4	--	6	<1	--	140	<10	--
11...	--	<3	--	--	--	--	--	--	--
11...	430	6	--	<1	6	--	140	20	--
11...	--	--	29000	--	--	30	--	--	770

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)
JUN									
11...	<.1	<.1	--	<100	<1	--	10	<10	--
11...	--	--	--	--	--	--	--	--	--
11...	<.1	<.1	--	100	<1	--	10	<10	--
11...	--	--	.20	--	--	1	--	--	110

DATE	TIME	SAM-PLING DEPTH (M)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)
APR				
30...	1440	1.0	<.100	<.100
30...	1530	2.0	1.30	<.100
30...	1535	3.0	4.60	<.100
JUN				
11...	1305	1.0	1.20	<.100

< Actual value is known to be less than the value shown.

11167980 LEXINGTON RESERVOIR NEAR LOS GATOS, CA--Continued
AT DAM

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA,
WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

PHYTOPLANKTON

DATE	APRIL 30, 1985			JUNE 11, 1985
TIME	1440	1530	1535	1305
DEPTH (M)	1.0	3.0	6.0	1.0
TOTAL CELLS/ML	162164	24550	469282	40845
ORGANISM	CELLS/ML	CELLS/ML	CELLS/ML	CELLS/ML
BACILLARIOPHYTA (Diatoms)				
Order Centrales				
Cyclotella stelligera	1534	57	57	--
Cyclotella sp.	--	--	--	4771
Melosira lirata	909	57	114	284
Rhizosolenia eriensis	114	--	--	227
Rhizosolenia eriensis var. pusillus	1704	738	454	--
Stephanodiscus dubius	--	57	57	--
Stephanodiscus sp.	--	--	--	57
Order Pennales				
Navicula sp.	--	--	57	--
Nitzschia acicularis	341	57	--	2329
Nitzschia palea	--	--	114	57
Nitzschia paleacea	--	--	--	57
Nitzschia sp.1	--	--	--	57
Nitzschia sp.2	--	--	--	57
Nitzschia sp.	--	--	114	--
Synedra delicatissima	341	114	--	--
Synedra minuscula	--	--	--	57
Synedra sp.	--	284	114	--
CHLOROPHYTA (Green algae)				
Chlorococcum sp.	--	170	--	57
Closterium sp.	738	682	454	--
Crucigenia tetrapedia	454	227	227	--
Dysmorphococcus sp.	--	--	--	114
Elakatothrix viridis?	--	--	--	114
Franceia ovalis	--	--	--	398
Kirchneriella lunaris	--	--	--	284
Mesotaenium sp.	--	--	--	341
Micratinium pusillum?	--	--	--	6134
Oocystis sp.	57	--	--	--
Scenedesmus quadricauda	--	--	454	--
Scenedesmus sp.	114	--	--	568
Selenastrum minutum	--	--	--	114
CHRYSOPHYTA (Golden-brown algae)				
Mallomonas globosa	--	--	--	57
Mallomonas sp.	--	--	--	114
Ochromonas sp.	57	--	--	--
CYANOPHYTA (Blue-green algae)				
Aphanocapsa delicatissima	127800	2055	437133	23402
Aphanothece caldariorum	7100	9429	14995	--
Chroococcus sp.1	1477	--	--	--
Chroococcus sp.2	1022	1193	795	--
Chroococcus sp.	--	--	--	57
Dactylococcopsis acicularis	341	57	--	--
Dactylococcopsis fascicularis	1078	454	511	57
Dactylococcopsis sp.	170	--	--	--
Synechococcus aeruginosa	2102	114	2613	--
Synechococcus elongatus	57	--	--	--
Synechococcus sp.	14086	8634	10678	--
EUGLENOPHYTA (Euglenoids)				
Euglena sp.	--	--	--	57
Trachelomonas planctonica	170	--	114	114
Trachelomonas volvocina	--	--	--	57
Trachelomonas sp.	57	--	--	57
PYRROPHYTA (Dinoflagellates)				
Peridinium sp.	--	--	--	57
CRYPTOPHYTA (Cryptomonads)				
Chroomonas sp.	57	114	--	227
Chilomonas paramaecium	227	57	--	341
Cryptomonas erosa	--	--	--	57
Cryptomonas sp.	57	--	227	114
NUMBER OF SPECIES	26	19	19	33

Phytoplankton analyzed by Chadwick & Associates.

GUADALUPE RIVER BASIN

11169000 GUADALUPE RIVER AT SAN JOSE, CA

LOCATION.--Lat 37°20'04", long 121°53'54", Santa Clara County, Hydrologic Unit 18050003, on right bank and 150 ft upstream of St. John street bridge, one block below Santa Clara Avenue, and 100 ft downstream from Los Gatos Creek.

DRAINAGE AREA.--146 mi^2.

WATER-DISCHARGE RECORDS

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.

REVISED RECORDS.--WSP 1315-B: 1943(M), 1945(M), 1949(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 72.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Lexington Reservoir 12 mi upstream and by Calero, Almaden, Guadalupe Reservoirs, and Lake Elsman (combined usable capacity, about 42,000 acre-ft), with water released during summer for percolation in spreading basins on tributaries. During current year, 4,660 acre-ft was diverted by San Jose Water Works for urban use.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,150 ft^3/s, Apr. 2, 1958, gage height, 16.55 ft; no flow many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,630 ft^3/s, Nov. 12, gage height, 4.24 ft; minimum daily, 0.36 ft^3/s, Oct. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	18	24	25	22	22	23	20	19	19	21	18
2	23	20	26	26	23	31	20	19	19	18	21	19
3	23	27	29	29	22	21	20	17	20	18	21	17
4	23	26	19	38	21	23	19	18	20	19	21	15
5	23	25	63	42	21	86	20	18	19	19	20	17
6	7.8	23	23	31	21	238	20	18	19	19	19	16
7	2.0	71	18	77	21	174	20	19	19	19	18	15
8	.85	127	23	39	431	56	19	20	19	20	20	25
9	.50	22	22	29	99	40	19	20	19	19	20	30
10	.38	38	78	24	49	152	18	24	19	17	20	20
11	185	24	23	20	32	37	20	20	19	19	20	20
12	23	148	22	22	24	22	20	20	19	18	20	19
13	21	283	22	23	30	22	20	19	20	20	20	16
14	20	53	23	24	32	21	20	18	20	19	19	18
15	19	26	133	23	22	23	19	19	19	19	19	18
16	112	149	38	24	21	24	21	19	19	21	20	19
17	35	31	22	23	21	23	73	17	19	21	20	19
18	21	29	23	22	20	40	19	20	19	21	20	19
19	27	25	28	21	20	21	20	20	19	21	19	19
20	23	48	24	20	20	21	20	17	19	22	20	19
21	22	23	22	22	20	21	20	16	18	22	18	16
22	22	22	24	21	14	21	20	18	20	21	19	16
23	14	21	24	20	20	20	20	20	21	21	19	18
24	2.5	44	25	22	21	19	20	21	20	21	19	18
25	.73	27	25	23	21	20	19	20	18	19	19	17
26	.68	22	27	23	21	138	20	19	17	18	19	19
27	.50	290	25	22	21	91	20	19	19	18	20	19
28	.36	117	26	43	21	83	19	20	18	19	19	19
29	.60	36	26	23	---	38	19	19	20	20	19	19
30	5.4	27	25	22	---	24	20	20	20	21	19	18
31	11	---	25	22	---	23	---	20	---	21	19	---
TOTAL	692.30	1842	957	845	1131	1595	647	594	575	609	607	557
MEAN	22.3	61.4	30.9	27.3	40.4	51.5	21.6	19.2	19.2	19.6	19.6	18.6
MAX	185	290	133	77	431	238	73	24	21	22	21	30
MIN	.36	18	18	20	14	19	18	16	17	17	18	15
AC-FT	1370	3650	1900	1680	2240	3160	1280	1180	1140	1210	1200	1100

CAL YR 1984	TOTAL	12157	MEAN	33.2	MAX	290	MIN	.36	AC-FT	24110
WTR YR 1985	TOTAL	10651.30	MEAN	29.2	MAX	431	MIN	.36	AC-FT	21130

PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1979 to current year.

REMARKS.--Bed material samples were divided into two fractions prior to analysis. Chemical and particle-size analyses are representative of the sample fraction which was finer than 2.0 mm.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
JAN									
15...	1630	23	715	8.5	13.0	765	1.4	11.6	110
29...	1445	22	681	8.3	13.5	765	6.5	10.8	103
FEB									
09...	0800	116	496	8.2	10.0	765	30	10.8	95
MAR									
11...	0945	687	252	8.0	14.5	765	23	8.8	86
JUN									
13...	1415	20	736	8.4	22.0	760	4.0	8.9	102
JUL									
24...	1315	21	748	8.0	22.0	750	23	10.9	127
SEP									
11...	1645	20	712	8.4	17.5	765	24	9.4	98

DATE	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY FIELD (MG/L AS CACO3)
JAN										
15...	18	350	48	66	45	31	16	.7	1.2	302
29...	25	320	48	61	40	31	17	.8	1.4	269
FEB										
09...	27	220	46	40	30	23	18	.7	1.8	178
MAR										
11...	30	110	17	24	12	12	19	.5	1.4	92
JUN										
13...	<32	350	57	65	46	35	18	.8	1.5	295
JUL										
24...	20	340	56	65	44	34	18	.8	1.6	288
SEP										
11...	10	340	47	65	42	31	17	.8	1.4	289

11169000 GUADALUPE RIVER AT SAN JOSE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
JAN										
15...	71	27	.20	22	440	.60	28	3.8	3.6	<.010
29...	65	24	.20	21	410	.55	24	3.6	3.5	.050
FEB										
09...	48	26	.10	17	290	.40	80	2.1	1.2	.030
MAR										
11...	22	10	<.10	8.1	150	.20	269	.90	.88	.090
JUN										
13...	72	29	.20	20	450	.61	24	3.0	3.0	.070
JUL										
24...	71	25	.20	20	430	.59	25	3.2	3.2	.060
SEP										
11...	66	24	.20	24	430	.58	22	3.2	3.2	.050

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)
JAN										
15...	<.010	--	--	.30	<.20	4.1	.020	.020	1.8	.10
29...	.060	.55	--	.60	--	4.2	.070	.040	2.1	.20
FEB										
09...	<.010	.97	--	1.0	.60	3.1	.100	.030	--	--
MAR										
11...	.090	.61	.41	.70	.50	1.6	.180	.100	--	--
JUN										
13...	.060	.43	.44	.50	.50	3.5	.040	.010	--	--
JUL										
24...	.050	.84	.65	.90	.70	4.1	.050	.020	--	--
SEP										
11...	.060	.65	.74	.70	.80	3.9	.050	.020	--	--

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ALUM- INUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)
JAN								
15...	1630	--	--	--	--	160	--	--
29...	1445	--	--	--	--	150	--	--
FEB								
09...	0800	20	12000	<1	4	130	<1	<1
MAR								
11...	0945	--	--	--	--	60	--	--
JUN								
13...	1415	--	--	--	--	170	--	--
JUL								
24...	1315	--	--	--	--	100	--	--
SEP								
11...	1645	<10	12000	1	7	150	1	0

See footnotes at end of table.

11169000 GUADALUPE RIVER AT SAN JOSE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)
JAN									
15...	--	--	--	--	--	5	--	--	--
29...	--	--	--	--	--	42	--	--	--
FEB									
09...	<10	90	20	3	180	30	30000	2	80
MAR									
11...	--	--	--	--	--	40	--	--	--
JUN									
13...	--	--	--	--	--	4	--	--	--
JUL									
24...	--	--	--	--	--	6	--	--	--
SEP									
11...	--	740	20	<1	97	<3	21000	1	300

DATE	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
JAN								
15...	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--
FEB								
09...	8	500	<.1	.30	<100	<1	<3	110
MAR								
11...	--	--	--	8.0	--	--	--	--
JUN								
13...	--	--	--	--	--	--	--	--
JUL								
24...	--	--	--	--	--	--	--	--
SEP								
11...	20	660	<.1	1.7	<100	1	<10	190

DATE	TIME	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLORDANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)
FEB									
09...	0800	<.10	<.1	<.010	<.1	<.010	<.010	<.010	<.010
SEP									
11...	1645	<.10	<.1	<.010	<.1	<.010	<.010	<.010	<.010

DATE	DIAZINON, TOTAL (UG/L)	ENDOSULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALATHION, TOTAL (UG/L)	METHOXYCHLOR, TOTAL (UG/L)	METHYL PARATHION, TOTAL (UG/L)
FEB										
09...	.09	<.010	<.010	<.01	<.010	<.010	.040	.01	<.01	<.01
SEP										
11...	.04	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01	<.01

See footnotes at end of table.

11169000 GUADALUPE RIVER AT SAN JOSE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	METHYL TRI-THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA-THION, TOTAL (UG/L)	PER-THANE TOTAL (UG/L)	TOX-APHENE, TOTAL (UG/L)	TOTAL TRI-THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
FEB									
09...	<.01	<.01	<.01	<.1	<1	<.01	.07	<.01	<.01
SEP									
11...	<.01	<.01	<.01	<.1	<1	<.01	<.01	<.01	<.01

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	COLI-FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, (COLS. PER 100 ML)
MAR						
12...	0735	22	15.0	34000	2100	430
19...	0735	21	15.0	43000	1400	910
26...	0730	21	14.0	8000	250	360
APR						
02	0730	21	18.0	6600	440	200
09...	0740	19	18.0	10000	380	260

< Actual value is known to be less than the value shown.

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	BED MAT. FALL DIAM. % FINER THAN .002 MM	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .008 MM	BED MAT. FALL DIAM. % FINER THAN .016 MM
FEB							
09...	0800	101	10.0	--	--	--	--
SEP							
11...	1645	19	17.5	1	1	1	2

DATE	BED MAT. FALL DIAM. % FINER THAN .031 MM	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
FEB							
09...	--	1	2	6	22	58	100
SEP							
11...	2	2	3	6	16	44	100

11169500 SARATOGA CREEK AT SARATOGA, CA

LOCATION.--Lat 37°15'16", long 122°02'18", in Quito Grant, Santa Clara County, Hydrologic Unit 18050003, on right bank on upstream side of private road bridge, 0.5 mi southwest of Saratoga, and 0.7 mi downstream from diversion dam.

DRAINAGE AREA.--9.22 mi^2.

PERIOD OF RECORD.--October 1933 to current year. Prior to October 1951, published as Campbell Creek at Saratoga.

REVISED RECORDS.--WSP 1445: 1940, 1952(M). WSP 1929: Drainage area.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Elevation of gage is 500 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Dec. 6, 1968, at site 40 ft downstream at different datum.

REMARKS.--No estimated daily discharges. Records fair. Water is diverted for municipal use by San Jose Water Works at diversion dam above station.

AVERAGE DISCHARGE (adjusted for diversion).--52 years, 10.6 ft^3/s, 7,680 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,730 ft^3/s, Dec. 22, 1955, gage height, 6.40 ft, site and datum then in use, from rating curve extended above 510 ft^3/s on basis of slope-area measurement of maximum flow; maximum gage height, 7.03 ft, Jan. 24, 1983; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 110 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 27	1730	*177	*3.97	Feb. 8	1030	141	3.81

Minimum daily, 0.21 ft^3/s, Aug. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.78	1.1	3.6	.72	.31	.74	6.4	.78	.85	.70	.50	.22
2	.78	1.3	5.3	.75	.40	.71	7.2	.49	1.0	.63	.52	.23
3	.79	1.6	5.1	.76	.34	.55	5.8	.63	.88	.68	.47	.26
4	.79	1.2	2.6	.92	.29	.60	4.7	1.1	.70	.67	.47	.24
5	.77	.78	2.8	.69	.30	5.1	3.2	.59	.95	.66	.57	.30
6	.80	.65	2.3	.79	.29	22	2.2	.81	1.0	.70	.69	.34
7	.80	.93	2.0	1.2	.94	26	2.0	.57	.95	.71	.69	.37
8	.82	2.4	1.8	.50	63	14	2.0	.52	.90	.66	.68	.58
9	.81	1.3	1.7	.39	22	11	1.9	.62	.98	.62	.67	.59
10	.84	.78	16	.39	10	28	1.3	.60	1.0	.58	.68	.47
11	1.7	1.2	6.1	.31	6.9	25	1.1	.55	.96	.66	.70	.41
12	1.0	7.4	4.1	.32	4.7	19	.91	.58	.81	.61	.70	.39
13	.92	17	2.3	.31	2.6	16	.93	.57	.80	.62	.68	.33
14	.90	2.5	1.8	.31	1.7	13	.93	.83	.58	.60	.69	.31
15	.86	1.2	6.7	.53	1.3	10	.80	.76	.61	.59	.70	.33
16	6.7	9.5	5.2	.36	1.3	5.4	.69	.61	.61	.56	.67	.34
17	2.3	4.2	4.1	.30	1.0	5.2	.69	.73	.60	.55	.58	.32
18	1.3	2.4	3.7	.30	.92	8.2	.61	.73	.59	.57	.58	.31
19	1.4	3.3	1.8	.29	.76	4.2	.50	.71	.78	.54	.60	.33
20	1.1	2.5	1.1	.30	.72	6.6	.59	.78	.64	.60	.58	.32
21	1.0	1.1	.98	.29	.71	4.9	.54	1.3	.57	.61	.58	.30
22	.99	.81	.97	.29	.69	2.0	.55	1.0	.55	.56	.57	.31
23	.96	1.2	1.1	.29	.65	1.6	.44	1.1	.56	.52	.54	.31
24	.97	3.5	.87	.28	.69	1.4	.46	.78	.60	.48	.54	.30
25	.92	1.8	.85	.26	.68	1.7	.55	.78	.65	.47	.56	.29
26	.96	1.3	.87	.26	.56	19	.47	.79	.61	.49	.54	.29
27	.98	46	.84	.28	.62	26	.85	.81	.58	.51	.54	.31
28	.99	32	.76	.34	.67	23	1.7	.77	.59	.52	.54	.35
29	1.1	10	.76	.31	---	15	.69	.65	.73	.53	.63	.37
30	1.1	5.3	.73	.29	---	10	.78	.80	.75	.51	.21	.32
31	1.1	---	.72	.27	---	7.6	---	.72	---	.50	.22	---
TOTAL	37.23	166.25	89.55	13.60	125.04	333.50	51.48	23.06	22.38	18.21	17.89	10.14
MEAN	1.20	5.54	2.89	.44	4.47	10.8	1.72	.74	.75	.59	.58	.34
MAX	6.7	46	16	1.2	63	28	7.2	1.3	1.0	.71	.70	.59
MIN	.77	.65	.72	.26	.29	.55	.44	.49	.55	.47	.21	.22
AC-FT	74	330	178	27	248	661	102	46	44	36	35	20
a	0	77	147	141	152	110	192	104	34	0	0	0

CAL YR 1984 TOTAL 1544.00 MEAN 4.22 MAX 46 MIN .46 AC-FT 3060
WTR YR 1985 TOTAL 908.33 MEAN 2.49 MAX 63 MIN .21 AC-FT 1800

a Diversions, in acre-feet, provided by San Jose Water Works.

11170000 COYOTE CREEK NEAR MADRONE, CA

LOCATION.--Lat 37°10'06", long 121°38'55", near southeast corner of La Laguna Seca Grant, Santa Clara County, Hydrologic Unit 18050003, on right bank 1.2 mi downstream from Anderson Dam, and 1.8 mi northeast of Madrone.

DRAINAGE AREA.--196 mi^2.

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.

REVISED RECORDS.--WSP 1345: 1932, 1935(M).

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 375 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Mar. 1, 1950, nonrecording gage and water-stage recorders at various sites within 1.4 mi upstream at different datums.

REMARKS.--No estimated daily discharges. Records good except for June 24 to Aug. 1, which are fair. Flow regulated by Coyote Lake, capacity, 23,700 acre-ft and by Anderson Lake, capacity, 91,280 acre-ft. Water is diverted to Main Avenue percolation ponds by Santa Clara Valley Water District.

AVERAGE DISCHARGE (unadjusted).--79 years, 66.0 ft^3/s, 47,820 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,000 ft^3/s, probably Mar. 7, 1911 (record furnished by Duryea, Haehl, and Gilman); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 74 ft^3/s, Apr. 26, gage height, 2.44 ft; no flow several days in October.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	58	66	30	27	39	54	70	70	35	68	64
2	0	58	66	29	26	39	53	70	71	31	68	66
3	0	59	65	28	26	39	53	70	69	23	68	66
4	0	59	28	28	26	34	53	69	70	21	69	66
5	0	59	7.0	28	26	31	53	70	69	21	69	63
6	0	59	7.2	26	26	29	53	70	70	22	69	64
7	0	55	6.8	28	14	6.8	53	69	70	22	69	64
8	0	39	6.9	29	7.4	6.7	53	68	70	35	68	65
9	0	63	7.5	30	6.4	6.7	53	69	70	46	68	66
10	0	64	7.4	30	6.2	6.7	53	72	70	46	70	65
11	0	63	7.2	30	18	6.7	53	72	69	46	71	65
12	0	32	7.2	30	30	28	53	72	69	45	71	60
13	0	7.1	7.2	30	30	40	53	71	70	45	71	63
14	0	40	6.8	30	15	40	52	71	72	45	70	62
15	8.2	63	6.6	30	15	40	55	72	72	45	70	60
16	29	64	6.2	30	30	40	63	72	72	51	70	60
17	31	63	6.2	30	30	41	67	72	72	54	71	60
18	28	63	22	31	30	41	67	71	72	54	70	59
19	28	63	31	31	29	41	69	72	72	55	69	59
20	27	58	31	31	32	41	72	71	72	55	68	58
21	26	53	31	31	37	41	72	29	72	55	69	59
22	42	53	30	31	38	41	70	.42	72	56	69	59
23	56	53	30	29	38	41	71	42	71	56	68	58
24	57	53	30	28	38	41	71	70	57	54	65	59
25	57	53	30	28	38	41	72	70	35	55	66	59
26	57	54	30	28	38	29	73	71	34	55	66	60
27	57	25	30	28	38	6.7	73	71	34	55	65	60
28	59	7.1	30	28	38	38	73	70	35	55	65	61
29	59	40	29	28	---	55	73	71	34	61	65	60
30	59	65	29	28	---	55	72	70	35	69	65	57
31	58	---	30	28	---	55	---	70	---	68	64	---
TOTAL	738.2	1545.2	728.2	904	753.0	1040.3	1855	2047.42	1890	1436	2114	1847
MEAN	23.8	51.5	23.5	29.2	26.9	33.6	61.8	66.0	63.0	46.3	68.2	61.6
MAX	59	65	66	31	38	55	73	72	72	69	71	66
MIN	0	7.1	6.2	26	6.2	6.7	52	.42	34	21	64	57
AC-FT	1460	3060	1440	1790	1490	2060	3680	4060	3750	2850	4190	3660

CAL YR 1984 TOTAL 16267.60 MEAN 44.4 MAX 339 MIN 0 AC-FT 32270
WTR YR 1985 TOTAL 16898.32 MEAN 46.3 MAX 73 MIN 0 AC-FT 33520

11172100 UPPER PENITENCIA CREEK AT SAN JOSE, CA

LOCATION.--Lat 37°23'43", long 121°49'38", on north boundary of San Jose Pala Grant, Santa Clara County, Hydrologic Unit 18050003, on left bank at downstream side of Dorel Drive bridge, and 0.1 mi upstream from Dutard Creek near northeast limits of San Jose.

DRAINAGE AREA.--21.5 mi^2.

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 above National Geodetic Vertical Datum of 1929. Prior to Aug. 3, 1962, at site 0.4 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Low flow partially regulated by Cherry Flat Reservoir 5 mi upstream, capacity, 500 acre-ft.

AVERAGE DISCHARGE.--24 years, 6.31 ft^3/s, 4,570 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,970 ft^3/s, Mar. 31, 1982, gage height, 8.71 ft in gage well, 9.71 ft from outside gage, from rating curve extended above 1,200 ft^3/s on basis of slope-area measurement of maximum flow; no flow at times in some years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known since at least 1935, 2,100 ft^3/s Apr. 2, 1958, from information furnished by Santa Clara Valley Water District.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 8	1200	*237	*4.49				

Minimum daily, 0.07 ft^3/s, July 19, Aug. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.30	.50	3.8	1.8	1.2	1.3	9.1	1.1	1.9	.52	.15	.13
2	.32	.50	3.9	1.7	1.7	1.6	7.4	1.0	2.0	.54	.13	.10
3	.33	.58	6.2	1.6	1.5	1.5	6.3	.95	2.0	.52	.12	.10
4	.36	.50	4.1	1.5	1.3	1.7	5.6	.94	1.9	.48	.11	.09
5	.36	.47	3.8	1.4	1.2	2.4	4.7	.92	1.8	.50	.10	.10
6	.37	.55	3.5	1.4	1.2	5.5	4.3	.86	1.8	.51	.14	.09
7	.35	.69	2.9	2.2	1.2	19	4.0	.85	1.8	.48	.10	.10
8	.32	1.4	2.6	3.0	55	10	3.7	.81	1.8	.47	.08	.25
9	.45	1.4	2.3	2.5	25	7.2	3.2	.80	1.8	.43	.07	.21
10	.53	1.3	4.9	2.8	11	16	2.9	1.0	1.7	.45	.20	.23
11	1.2	2.3	4.0	2.0	6.8	20	2.6	1.1	1.6	.33	.13	.21
12	.48	2.1	3.4	1.8	5.2	17	2.3	.94	1.7	.21	.08	.19
13	.44	8.2	3.2	1.7	4.2	10	2.2	.85	1.7	.20	.14	.18
14	.46	3.2	2.8	1.6	3.6	7.8	2.0	.79	1.6	.20	.11	.28
15	.43	1.9	9.6	1.6	3.1	6.3	1.9	.76	1.6	.13	.11	.36
16	1.9	3.7	23	1.6	2.8	5.3	1.9	.73	1.5	.11	.11	.18
17	1.7	3.7	11	1.4	2.5	4.7	3.0	.73	1.5	.09	.13	.15
18	.86	3.1	7.5	1.4	2.3	6.1	2.3	.73	1.5	.08	.14	.14
19	.75	2.3	5.7	1.4	2.1	4.8	1.9	.76	1.0	.07	.25	.13
20	.67	2.1	4.7	1.4	2.0	4.1	1.8	.70	.76	.12	.60	.12
21	.63	2.9	3.8	1.4	1.9	3.6	1.9	.68	.70	.14	.28	.11
22	.61	2.4	3.3	1.4	1.7	3.2	2.0	.65	.65	.13	.11	.11
23	.56	1.9	2.9	1.3	1.5	3.0	1.7	.63	.62	.14	.12	.11
24	.55	2.4	2.7	1.2	1.5	2.9	1.5	.61	.61	.14	.11	.14
25	.49	2.6	2.5	1.2	1.5	2.8	1.4	.63	.60	.16	.09	.14
26	.54	2.0	2.4	1.2	1.5	7.8	1.4	.64	.55	.16	.09	.13
27	.55	7.0	2.4	1.3	1.4	29	1.3	.56	.54	.15	.09	.15
28	.51	20	2.2	1.5	1.4	50	1.2	.54	.57	.13	.10	.15
29	.67	7.8	2.0	1.5	---	28	1.1	.53	.57	.13	.11	.17
30	.66	4.9	1.9	1.3	---	17	1.1	.49	.53	.13	.11	.18
31	.56	---	1.8	1.2	---	11	---	1.7	---	.14	.10	---
TOTAL	18.91	94.39	140.8	50.3	147.3	310.6	87.7	24.98	38.90	7.99	4.31	4.73
MEAN	.61	3.15	4.54	1.62	5.26	10.0	2.92	.81	1.30	.26	.14	.16
MAX	1.9	20	23	3.0	55	50	9.1	1.7	2.0	.54	.60	.36
MIN	.30	.47	1.8	1.2	1.2	1.3	1.1	.49	.53	.07	.07	.09
AC-FT	38	187	279	100	292	616	174	50	77	16	8.5	9.4

CAL YR 1984 TOTAL 1497.60 MEAN 4.09 MAX 63 MIN .20 AC-FT 2970
WTR YR 1985 TOTAL 930.91 MEAN 2.55 MAX 55 MIN .07 AC-FT 1850

11176000 ARROYO MOCHO NEAR LIVERMORE, CA

LOCATION.--Lat 37°37'35", long 121°42'13", in NW 1/4 SE 1/4 sec.36, T.3 S., R.2 E., Alameda County, Hydrologic Unit 18050004, on right bank 40 ft downstream from Mines Road bridge, 2.4 mi upstream from small right-bank tributary, and 5.2 mi southeast of Livermore.

DRAINAGE AREA.--38.2 mi^2.

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. Datum of gage is 746.49 ft above National Geodetic Vertical Datum of 1929. January 1912 to October 1914 at present site at different datum. November 1914 to Sept. 30, 1930, at site 1 mi upstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 1 to Nov. 20, and June 1 to July 5. Records fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--40 years, 5.26 ft^3/s, 3,810 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 2,250 ft^3/s, Jan. 24, 1983, gage height, 8.80 ft, from flood marks; from rating curve extended above 600 ft^3/s; no flow for parts of most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 23, 1955, discharge 1,880 ft^3/s, by slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 90 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 28	0230	*83	*6.12				

Minimum, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.68	4.8	1.4	1.6	1.4	3.4	.70	.25	.02		
2	0	.61	4.0	1.4	1.9	1.4	3.0	.61	.25	.01		
3	0	.59	4.4	1.3	2.4	1.6	2.5	.61	.30	0		
4	0	.49	4.8	1.1	2.2	1.6	2.4	.69	.35	0		
5	0	.35	4.7	1.1	2.0	1.6	2.2	.61	.35	0		
6	0	.35	4.3	1.1	1.9	3.0	1.9	.61	.35	0		
7	0	.38	4.0	1.2	1.8	6.1	1.8	.61	.40	0		
8	0	1.9	3.8	1.6	14	6.6	1.7	.61	.43	0		
9	0	1.4	3.5	2.0	15	5.6	1.6	.61	.36	0		
10	0	1.2	4.9	2.8	5.9	4.9	1.5	.61	.25	0		
11	.03	1.3	7.3	2.4	3.8	5.5	1.4	.66	.22	0		
12	.02	1.1	6.7	2.1	3.0	5.2	1.3	.72	.13	0		
13	.02	3.5	6.1	1.9	2.5	3.9	1.3	.69	.14	0		
14	.02	3.3	5.4	1.7	2.5	2.9	1.2	.59	.12	0		
15	.02	1.9	5.8	1.5	2.2	2.2	1.1	.50	.12	0		
16	.05	1.8	12	1.4	2.0	1.9	1.1	.47	.10	0		
17	.19	1.9	5.4	1.4	1.9	1.7	1.4	.42	.06	0		
18	.34	2.0	4.1	1.2	1.8	1.8	1.1	.35	.06	0		
19	.35	1.6	3.6	1.1	1.7	1.8	1.1	.35	.09	0		
20	.50	1.3	3.2	1.1	1.5	1.6	1.1	.35	.08	0		
21	.67	1.4	2.6	1.1	1.3	1.3	1.1	.35	.05	0		
22	.72	1.4	2.3	1.1	1.3	1.3	1.1	.38	.05	0		
23	.72	1.4	2.2	1.1	1.4	1.3	1.0	.40	.06	0		
24	.72	1.6	2.1	1.1	1.3	1.3	.96	.35	.06	0		
25	.72	3.7	1.9	1.1	1.3	1.3	.77	.35	.06	0		
26	.69	3.6	1.8	1.3	1.3	1.8	.68	.35	.06	0		
27	.61	6.4	1.8	1.6	1.4	19	.72	.31	.06	0		
28	.61	21	1.6	1.6	1.4	47	.72	.25	.06	0		
29	.66	8.4	1.6	1.6	---	12	.72	.25	.04	0		
30	.72	5.8	1.5	1.6	---	6.0	.72	.27	.03	0		
31	.72	---	1.4	1.6	---	4.2	---	.25	---	0		
TOTAL	9.10	82.35	123.6	45.6	82.3	158.8	42.59	14.88	4.94	0.03	0	0
MEAN	.29	2.74	3.99	1.47	2.94	5.12	1.42	.48	.16	.001	0	0
MAX	.72	21	12	2.8	15	47	3.4	.72	.43	.02	0	0
MIN	0	.35	1.4	1.1	1.3	1.3	.68	.25	.03	0	0	0
AC-FT	18	163	245	90	163	315	84	30	9.8	.06	0	0

CAL YR 1984 TOTAL 1143.70 MEAN 3.12 MAX 24 MIN 0 AC-FT 2270
WTR YR 1985 TOTAL 564.19 MEAN 1.55 MAX 47 MIN 0 AC-FT 1120

11176090 ARROYO MOCHO AT LIVERMORE, CA

LOCATION.--Lat 37°40'37", long 121°48'48" in Valle de San Jose Grant, Alameda County, Hydrologic Unit 18050004, on left bank 5 ft upstream of unnamed road, 3.1 mi from confluence of Arroyo Las Positas, and 2.6 mi west of Livermore.

DRAINAGE AREA.--50.8 mi^2.

PERIOD OF RECORD.--October 1983 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 390 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 16-17, Mar. 26-29. Record good. No regulation or diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 549 ft^3/s, Dec. 25, 1983, gage height, 5.58 ft; no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 8	1130	*207	*4.82				

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	.05	0	0					
2	0	0	5.3	0	.01	0	0					
3	0	0	.15	0	0	0	0					
4	0	0	0	0	0	0	0					
5	0	0	.75	0	0	1.2	0					
6	0	0	0	0	0	4.3	0					
7	0	1.9	0	.72	0	2.7	0					
8	0	17	0	0	30	0	0					
9	0	0	0	0	5.3	0	0					
10	0	6.9	9.1	0	.11	11	0					
11	7.9	.11	0	0	0	0	0					
12	0	6.4	0	0	0	0	0					
13	0	22	0	0	0	0	0					
14	0	0	0	0	0	0	0					
15	0	.22	0	0	0	0	0					
16	.26	12	0	0	0	0	0					
17	0	.14	0	0	0	0	.24					
18	0	.40	0	0	0	0	0					
19	0	0	0	0	0	0	0					
20	0	0	0	0	0	0	0					
21	0	0	0	0	0	0	0					
22	0	0	0	0	0	0	0					
23	0	0	0	0	0	0	0					
24	0	3.7	0	0	0	0	0					
25	0	0	0	0	0	0	0					
26	0	0	.06	0	0	15	0					
27	0	31	0	0	0	6.6	0					
28	0	5.0	0	1.2	0	44	0					
29	0	.79	0	0	---	11	0					
30	0	0	0	0	---	1.3	0					
31	0	---	0	0	---	0	---					
TOTAL	8.16	107.56	15.36	1.92	35.47	97.1	0.24	0	0	0	0	0
MEAN	.26	3.59	.50	.062	1.27	3.13	.008	0	0	0	0	0
MAX	7.9	31	9.1	1.2	30	44	.24	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	16	213	30	3.8	70	193	.5	0	0	0	0	0

CAL YR 1984	TOTAL	544.00	MEAN	1.49	MAX	48	MIN	0	AC-FT 1080
WTR YR 1985	TOTAL	265.81	MEAN	.73	MAX	44	MIN	0	AC-FT 526

11176145 ARROYO LAS POSITAS AT LIVERMORE, CA

LOCATION.--Lat 37°42'00", long 121°46'22" in Valle de San Jose Grant, Alameda County, Hydrologic Unit 18050004, on left bank 5 ft upstream from North Livermore Avenue bridge, 0.6 mi upstream from Cayetano Creek, and 1.3 mi north of Livermore.

DRAINAGE AREA.--53.3 mi^2.

PERIOD OF RECORD.--August 1980 to current year.

GAGE.--Water-stage recorder with concrete control. Elevation of gage is 465 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Water from South Bay Aqueduct enters stream about 5 mi upstream of gage.

AVERAGE DISCHARGE.--5 years, 9.38 ft^3/s, 6,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,900 ft^3/s, Jan. 5, 1982, gage height, 5.87 ft; minimum daily, 0.17 ft^3/s, Aug. 30, 1980, and Sept. 1-8, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 8	1215	*111	*3.00				

Minimum daily, 1.2 ft^3/s, July 9, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.9	2.9	2.3	2.0	2.1	2.8	1.4	1.7	1.3	1.6	1.4
2	1.5	1.9	4.1	2.2	2.7	2.1	2.1	1.4	2.2	1.4	1.5	1.3
3	1.5	1.8	8.7	2.2	2.2	2.1	1.8	1.6	2.3	1.3	1.4	1.6
4	1.5	1.8	3.7	2.2	2.0	2.3	1.6	2.1	1.9	1.3	1.4	1.5
5	1.5	1.8	3.9	2.2	2.0	3.6	1.6	1.5	1.3	1.3	1.4	1.8
6	1.5	1.8	3.4	2.2	2.0	5.8	1.6	1.6	1.5	1.4	1.4	1.4
7	1.5	2.1	3.0	3.3	1.9	9.1	1.6	1.7	1.4	1.3	1.4	1.7
8	1.5	20	2.8	6.6	46	3.3	1.6	1.7	1.6	1.3	1.7	1.6
9	1.7	4.5	2.7	3.1	10	2.3	1.5	1.8	1.4	1.2	1.5	1.6
10	1.8	5.3	13	2.5	4.7	18	1.4	1.4	1.3	1.2	1.5	1.9
11	4.3	7.1	4.4	2.5	3.4	7.2	1.4	1.9	1.3	1.7	1.5	1.6
12	1.9	3.5	3.1	2.7	2.8	3.9	1.4	1.5	1.3	1.4	1.4	1.9
13	1.8	29	2.6	2.3	2.6	3.3	1.4	1.6	1.3	1.6	1.4	1.6
14	1.8	4.4	2.3	2.2	2.3	3.0	1.4	1.8	1.4	1.3	1.4	1.9
15	1.8	3.0	9.2	2.2	2.2	2.8	1.4	1.6	1.7	1.3	1.5	1.6
16	2.6	14	6.6	2.2	2.2	2.8	1.4	1.8	1.4	1.4	1.5	1.5
17	2.1	4.6	3.4	2.2	2.2	2.8	4.4	1.4	1.4	1.4	1.9	1.8
18	7.6	6.6	2.8	2.2	2.2	3.9	1.9	1.7	1.4	1.6	1.5	1.6
19	3.4	3.1	2.7	2.2	2.2	3.5	1.5	1.4	1.4	1.4	1.4	1.9
20	2.6	2.8	2.7	2.2	2.1	2.8	1.5	1.4	2.1	1.3	1.6	1.6
21	2.4	2.7	2.5	2.2	2.1	2.5	1.5	1.7	1.6	1.5	1.6	1.6
22	2.2	2.4	2.3	2.2	2.0	2.3	1.5	1.4	1.7	1.4	1.6	1.4
23	2.0	2.3	2.3	2.2	1.8	2.3	1.5	1.8	1.4	1.7	1.4	1.3
24	2.1	8.5	2.3	1.9	1.8	2.2	1.4	1.6	1.6	1.4	1.6	1.7
25	1.9	4.4	2.3	1.8	2.2	2.2	1.4	1.4	1.8	1.3	1.5	1.5
26	1.7	2.9	3.2	2.1	2.2	14	1.4	1.4	1.5	1.4	1.4	1.9
27	1.6	13	3.7	2.2	1.9	14	1.5	1.4	1.5	2.0	1.6	1.6
28	1.5	16	2.7	3.4	1.9	10	1.5	1.9	1.3	1.8	1.5	1.8
29	1.9	4.2	2.4	3.1	---	3.5	1.7	1.6	1.3	1.7	1.6	1.5
30	1.9	3.1	2.3	2.4	---	2.7	1.6	1.9	1.3	2.1	1.4	1.5
31	1.9	---	2.3	2.1	---	2.2	---	1.4	---	1.7	1.5	---
TOTAL	66.5	180.5	116.3	77.3	115.6	144.6	50.3	49.8	46.3	45.4	46.6	48.6
MEAN	2.15	6.02	3.75	2.49	4.13	4.66	1.68	1.61	1.54	1.46	1.50	1.62
MAX	7.6	29	13	6.6	46	18	4.4	2.1	2.3	2.1	1.9	1.9
MIN	1.5	1.8	2.3	1.8	1.8	2.1	1.4	1.4	1.3	1.2	1.4	1.3
AC-FT	132	358	231	153	229	287	100	99	92	90	92	96

CAL YR 1984	TOTAL	1299.9	MEAN	3.55	MAX	54	MIN	1.3	AC-FT	2580
WTR YR 1985	TOTAL	987.8	MEAN	2.71	MAX	46	MIN	1.2	AC-FT	1960

11176200 ARROYO MOCHO NEAR PLEASANTON, CA

LOCATION.--Lat 37°41'26", long 121°52'20", in Santa Rita Grant, Alameda County, Hydrologic Unit 18050004, on right bank 0.3 mi upstream from Santa Rita Road, 0.8 mi downstream from Arroyo Las Positas, and 2 mi north of Pleasanton.

DRAINAGE AREA.--142 mi^2.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 319.51 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 30, 1967, at site 0.4 mi downstream at different datum. Dec. 8, 1967, to July 7, 1968, nonrecording gage at bridge 0.3 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. No regulation. Waste water from Livermore sewage disposal plant and gravel operations enters stream about 4 mi upstream from gage.

AVERAGE DISCHARGE.--23 years, 18.8 ft^3/s, 13,620 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,330 ft^3/s, Jan. 5, 1982, gage height, 13.97 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 13	0900	274	9.45	Feb. 8	1230	*385	*9.71

Minimum, no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.36	.02	4.1	14	.92	23	14	13	9.7	.27	0	.06
2	0	.12	9.7	14	1.9	27	11	12	15	.26	0	.17
3	0	.16	17	14	1.2	26	2.7	11	17	.03	0	.23
4	0	.03	5.6	8.2	.96	26	.41	8.5	17	.03	0	.20
5	0	0	6.0	1.0	.81	25	.29	11	17	.10	0	.04
6	0	.12	4.7	1.1	.99	31	.25	11	7.9	.03	0	0
7	0	1.8	3.7	2.5	1.4	38	.31	9.0	2.6	0	0	.08
8	0	49	3.3	7.2	165	25	.80	8.3	12	0	0	.08
9	0	9.1	3.0	2.9	45	22	.14	8.8	8.4	0	0	.04
10	.01	11	29	1.8	26	51	.09	7.5	4.0	0	.03	.03
11	13	15	14	1.2	23	35	5.6	8.8	.03	0	.01	0
12	.46	11	24	1.4	22	26	13	12	.01	0	.10	0
13	.02	95	16	1.2	16	24	7.3	12	0	0	.01	0
14	0	9.3	1.3	1.1	6.5	11	2.4	12	0	0	.01	0
15	0	3.8	16	1.0	6.4	.93	11	3.1	1.8	0	0	0
16	2.8	28	20	1.0	6.1	.84	15	.01	6.1	0	0	0
17	3.5	9.4	19	.97	5.9	.63	18	.42	2.3	.24	0	0
18	.16	9.1	17	.92	5.9	1.6	18	.10	.01	.35	0	0
19	5.1	7.4	12	.93	14	1.4	16	.19	.04	.01	0	0
20	.66	3.4	9.1	.91	20	8.1	11	.11	2.2	0	0	0
21	.52	8.1	17	.89	17	14	8.9	.30	1.8	0	0	0
22	.27	16	15	.90	21	10	7.8	.13	1.4	0	0	0
23	.17	17	15	.86	21	4.2	12	0	1.9	0	0	0
24	.16	32	15	.77	21	9.2	17	3.7	1.0	0	0	0
25	.48	20	15	.62	24	12	16	3.6	.76	0	0	0
26	.04	19	14	.90	27	40	16	6.1	2.1	0	0	0
27	.01	70	17	.96	26	38	15	.47	.67	0	.21	0
28	0	70	15	3.1	22	53	10	11	.19	0	.28	0
29	.25	29	15	2.4	---	24	13	11	.26	0	.35	0
30	.15	15	15	1.2	---	16	13	8.8	.25	0	.07	0
31	.12	---	11	.92	---	15	---	11	---	0	.02	---
TOTAL	28.24	558.85	398.5	90.85	548.98	638.90	275.99	204.93	133.42	1.32	1.09	0.93
MEAN	.91	18.6	12.9	2.93	19.6	20.6	9.20	6.61	4.45	.043	.035	.031
MAX	.13	95	29	14	165	53	18	13	17	.35	.35	.23
MIN	0	0	1.3	.62	.81	.63	.09	0	0	0	0	0
AC-FT	56	1110	790	180	1090	1270	547	406	265	2.6	2.2	1.8

CAL YR 1984 TOTAL 2916.26 MEAN 7.97 MAX 204 MIN 0 AC-FT 5780
WTR YR 1985 TOTAL 2882.00 MEAN 7.90 MAX 165 MIN 0 AC-FT 5720

11176400 ARROYO VALLE BELOW LANG CANYON, NEAR LIVERMORE, CA

LOCATION.--Lat 37°33'41", long 121°40'58", in NE 1/4 NE 1/4 sec.30, T.4 S., R.3 E., Alameda County, Hydrologic Unit 18050004, on left bank 100 ft upstream from small left-bank tributary, 1.2 mi downstream from Lang Canyon, and 9.5 mi southeast of Livermore.

DRAINAGE AREA.--130 mi^2.

PERIOD OF RECORD.--October 1963 to current year. Prior to October 1974, published as "above Lang Canyon, near Livermore."

GAGE.--Water-stage recorder. Concrete control since June 19, 1975. Elevation of gage is 750 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to June 19, 1975, at site 1.4 mi upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. No regulation or diversion above station.

AVERAGE DISCHARGE.--22 years, 37.4 ft^3/s, 28,040 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,030 ft^3/s, Jan. 5, 1982, gage height, 6.22 ft; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft^3/s and maximum (*) based on rating extended above 1,000 ft^3/s, on basis of slope-area measurement:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 8	1615	*470	*1.99				

No flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	15	7.1	6.0	7.1	43	6.0	3.0	.30		
2		0	13	6.5	7.0	8.2	36	5.7	3.4	.24		
3		0	17	6.0	6.6	7.8	31	5.1	4.0	.17		
4		0	13	6.0	6.0	7.4	27	5.1	4.0	.03		
5		0	10	6.0	6.0	8.7	24	5.1	3.5	0		
6		0	9.4	6.0	6.0	14	20	4.6	3.2	.16		
7		0	8.3	7.1	6.0	34	18	4.0	2.5	3.3		
8		0	7.3	8.8	220	46	16	3.8	2.0	3.0		
9		0	7.2	8.8	149	42	14	3.6	1.7	1.9		
10		0	16	9.6	64	54	14	3.9	1.4	1.2		
11		0	23	8.3	41	50	11	4.1	1.3	.41		
12		0	15	7.1	31	40	11	3.9	1.0	0		
13		14	12	7.1	25	32	10	3.6	1.0	0		
14		3.8	9.1	7.1	20	27	9.2	3.5	.87	0		
15		.49	17	7.1	17	22	8.3	3.3	.68	0		
16		2.5	45	6.1	15	19	8.7	3.0	.51	0		
17		10	30	6.0	14	16	13	2.9	.51	0		
18		6.4	23	6.0	13	16	11	2.9	.51	0		
19		5.7	19	6.0	11	15	9.3	3.0	.51	0		
20		5.2	17	6.0	11	13	8.3	3.2	.51	0		
21		5.9	14	6.0	9.6	11	8.9	3.5	.49	0		
22		5.0	12	6.0	9.6	9.7	9.6	3.4	.49	0		
23		4.3	11	6.0	8.8	9.6	8.4	3.4	.50	0		
24		16	10	6.0	8.3	9.6	8.1	3.4	.49	0		
25		16	9.6	6.0	8.3	9.5	7.6	3.4	.50	0		
26		8.5	9.6	6.0	8.3	31	7.1	3.5	.45	0		
27		42	9.6	6.0	8.2	237	7.1	3.5	.43	0		
28		144	8.7	6.5	7.1	292	6.8	3.5	.41	0		
29		45	8.3	7.1	---	127	6.1	3.0	.32	0		
30		24	7.1	6.1	---	74	6.0	2.9	.34	0		
31		---	7.1	6.0	---	54	---	3.0	---	0		
TOTAL	0	358.79	433.3	206.4	742.8	1343.6	418.5	116.8	40.52	10.71	0	0
MEAN	0	12.0	14.0	6.66	26.5	43.3	14.0	3.77	1.35	.35	0	0
MAX	0	144	45	9.6	220	292	43	6.0	4.0	3.3	0	0
MIN	0	0	7.1	6.0	6.0	7.1	6.0	2.9	.32	0	0	0
AC-FT	0	712	859	409	1470	2670	830	232	80	21	0	0

CAL YR 1984 TOTAL 4956.59 MEAN 13.5 MAX 175 MIN 0 AC-FT 9830
WTR YR 1985 TOTAL 3671.42 MEAN 10.1 MAX 292 MIN 0 AC-FT 7280

11176500 ARROYO VALLE NEAR LIVERMORE, CA

LOCATION.--Lat 37°37'24", long 121°45'28", in Valle de San Jose Grant, Alameda County, Hydrologic Unit 18050004, on right bank 900 ft downstream from highway bridge, 1.1 mi upstream from Dry Creek, 1.3 mi downstream from Del Valle Dam, 4.1 mi south of Livermore, and 6.9 mi southeast of Pleasanton.

DRAINAGE AREA.--147 mi^2.

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 above National Geodetic Vertical Datum of 1929. Prior to November 1914, at site 900 ft upstream at different datum. Nov. 1, 1914, to Sept. 30, 1930, at site 300 ft upstream at different datum.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Del Valle Reservoir 1.3 mi upstream beginning in September 1968, capacity, 77,100 acre-ft. 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.

AVERAGE DISCHARGE.--29 years (water years 1912-30, 1957-68), 29.6 ft^3/s, 21,450 acre-ft/yr; 17 years (water years 1969-85), 30.4 ft^3/s, 22,020 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,200 ft^3/s, Apr. 2, 1958, gage height, 10.91 ft; no flow at times. Maximum discharge since construction of Del Valle Dam in 1968, 2,850 ft^3/s, Mar. 3 1983, gage height, 8.89 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 23, 1955, reached a stage of 13.9 ft from floodmarks, discharge, 18,200 ft^3/s, on basis of contracted-opening and slope area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11 ft^3/s, Dec. 2, gage height, 2.62 ft; minimum daily, 0.05 ft^3/s, July 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.28	.47	10	.61	.42	.42	.36	4.7	.30	.09	.13	.16
2	.26	.54	10	.61	.42	.41	.36	.31	.31	.08	.11	.19
3	.25	.61	6.9	.60	.42	.37	.40	.24	.27	.06	.09	.18
4	.24	.58	.70	.53	.39	.42	.40	.21	.26	.06	.09	.17
5	.30	.61	.62	.59	.39	.44	.35	.21	.24	.06	.11	.17
6	.28	.64	.54	.52	.42	.58	.32	.21	.24	.06	.13	.18
7	.24	.74	1.2	.55	.43	.58	.30	.23	.25	.06	.14	.17
8	.25	.79	1.4	.51	1.4	.43	.27	.27	.22	.06	.17	.21
9	.27	.54	1.4	.54	.88	.42	.29	.28	.18	.06	.15	.19
10	.31	.57	1.7	.53	.73	.53	.32	.34	3.4	.07	.16	.19
11	.45	.68	1.6	.51	.73	.48	.34	.34	4.0	.11	.18	.18
12	.24	.69	1.8	.50	.71	.42	.29	.32	.30	.08	.15	.17
13	.22	1.4	1.8	.48	.62	.42	.29	.29	.32	.06	.16	.19
14	.22	.64	1.7	.50	.61	.42	.35	.29	.19	.07	.18	.21
15	.22	.52	.81	.51	.63	.42	.31	.29	.17	.08	.18	.22
16	.52	.66	.66	.51	.64	.35	.21	.30	.17	.08	.18	.22
17	.43	.64	.77	.51	.56	.34	.27	.35	.14	.08	.19	.23
18	.21	.62	.62	.51	.56	.34	.26	.37	.13	.07	.20	.24
19	.21	.51	.61	.50	.55	.35	.22	.31	.15	.05	.19	.23
20	.21	.51	.61	.45	.51	.35	.21	.24	.16	.09	.22	.23
21	.21	.51	.61	.42	.51	.34	.27	.24	.16	.08	.18	.23
22	.21	.51	.61	.42	.49	.34	.26	.23	.17	.07	.19	.21
23	.21	.51	.61	.42	.47	.34	.27	.25	.14	.07	.20	.22
24	.21	.58	.61	.42	.44	.38	.27	.27	.12	.07	.21	.22
25	.21	.52	.61	.42	.42	.42	.27	.29	.11	.08	.22	.21
26	.26	.53	.61	.42	.42	.43	.27	.30	.10	.08	.22	.24
27	.42	1.7	.61	.42	.42	.60	2.7	.30	.09	.07	.23	.29
28	.42	6.0	.61	.43	.40	.69	8.0	.30	.08	.10	.25	.31
29	.47	10	.61	.42	---	.47	7.1	.30	.09	.12	.25	.34
30	.49	10	.61	.42	---	.42	6.8	.30	.09	.14	.19	.30
31	.47	---	.61	.42	---	.39	---	.30	---	.13	.18	---
TOTAL	9.19	43.82	52.15	15.20	15.59	13.31	32.33	13.18	12.55	2.44	5.43	6.50
MEAN	.30	1.46	1.68	.49	.56	.43	1.08	.43	.42	.079	.18	.22
MAX	.52	10	10	.61	1.4	.69	8.0	4.7	4.0	.14	.25	.34
MIN	.21	.47	.54	.42	.39	.34	.21	.21	.08	.05	.09	.16
AC-FT	18	87	103	30	31	26	64	26	25	4.8	11	13

CAL YR 1984	TOTAL	449.43	MEAN	1.23	MAX	10	MIN	.09	AC-FT	891
WTR YR 1985	TOTAL	221.69	MEAN	.61	MAX	10	MIN	.05	AC-FT	440

11176600 ARROYO VALLE AT PLEASANTON, CA

LOCATION.--Lat 37°40'02", long 121°52'54", in Valle de San Jose Grant, Alameda County, Hydrologic Unit 18050004, on right bank 400 ft upstream from Hopyard Road bridge, 0.6 mi northwest of Pleasanton City Hall, and 10 mi below Del Valle Reservoir.

DRAINAGE AREA.--171 mi^2.

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

GAGE.--Water-stage recorder and crest stage gage. Datum of gage is 312.46 ft above National Geodetic Vertical Datum of 1929. Prior to September 30, 1983 at site 600 ft downstream at datum 0.66 ft lower.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Del Valle Reservoir beginning in September 1968, capacity, 77,100 acre-ft. Water imported from Sacramento-San Joaquin Delta (see REMARKS for station 11176500). Flow affected by pumping and gravel operations above station.

AVERAGE DISCHARGE.--11 years (1958-68), 27.7 ft^3/s, 20,050 acre-ft/yr; 17 years (1969-85), 25.9 ft^3/s, 18,760 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,300 ft^3/s, Apr. 3, 1958, site and datum then in use; no flow at times in most years. Maximum discharge since construction of Del Valle Dam in 1968, 2,590 ft^3/s, Mar. 3, 1983, gage height, 13.86 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 155 ft^3/s, Feb. 8, gage height, 4.39 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	.05	2.5	0	0	1.8					0
2	0	0	4.0	1.8	0	.91	1.3					0
3	0	0	1.8	.11	0	4.8	.99					0
4	0	0	.06	.15	0	5.7	.21					0
5	0	0	.07	1.4	0	7.0	.63					0
6	0	0	.04	2.2	0	9.0	1.3					0
7	0	.07	.01	2.7	.12	7.9	1.7					0
8	0	8.7	0	.24	40	4.1	1.4					0
9	0	0	0	0	11	6.1	.83					0
10	0	.92	4.8	0	7.1	13	.65					0
11	0	.66	.09	0	4.3	8.0	.50					0
12	0	2.8	.05	0	2.6	5.9	.41					0
13	0	19	.02	0	.92	4.6	.03					0
14	0	.14	0	0	.97	1.5	.01					0
15	0	0	2.9	0	2.7	.23	0					0
16	.02	9.2	1.4	0	5.3	.03	0					.54
17	0	.24	.10	0	7.3	.02	0					2.1
18	0	1.5	.06	0	8.3	.01	0					2.4
19	0	0	.05	0	6.7	0	0					1.2
20	0	0	.01	0	3.1	0	0					.32
21	0	0	0	0	.62	0	0					.15
22	0	0	.05	0	.06	0	0					1.1
23	0	0	1.7	0	.04	0	0					.64
24	0	.01	1.8	0	.03	0	0					.03
25	0	0	.27	0	.01	.78	0					.01
26	0	0	.13	0	0	22	0					0
27	0	20	.06	0	0	7.0	0					0
28	0	6.3	.01	0	0	6.3	0					0
29	0	.62	0	0	---	3.6	0					0
30	0	.09	.99	0	---	3.1	0					.63
31	0	---	2.2	0	---	2.2	---					---
TOTAL	0.02	70.25	22.72	11.10	101.17	123.78	11.76	0	0	0	0	9.12
MEAN	.000	2.34	.73	.36	3.61	3.99	.39	0	0	0	0	.30
MAX	.02	20	4.8	2.7	40	22	1.8	0	0	0	0	2.4
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	.04	139	45	22	201	246	23	0	0	0	0	18

CAL YR 1984	TOTAL	1040.63	MEAN	2.84	MAX	54	MIN	0	AC-FT	2060
WTR YR 1985	TOTAL	349.92	MEAN	.96	MAX	40	MIN	0	AC-FT	694

11177200 VALLECITOS CREEK AT SUNOL, CA

LOCATION.--Lat 37°35'42", long 121°52'51", in Valle de San Jose Grant, Alameda County, Hydrologic Unit 18050004, on right bank at culvert on Sunol Road, 700 ft upstream from mouth, and 0.3 mi east of Sunol.

DRAINAGE AREA.--7.48 mi^2.

PERIOD OF RECORD.--Water year 1975 to current year.
CHEMICAL ANALYSIS: Water years 1975-79.
SPECIFIC CONDUCTANCE: Water years 1975 to current year.
WATER TEMPERATURES: Water years 1975-78.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1974 to current year.
WATER TEMPERATURES: November 1974 to September 1978.

INSTRUMENTATION.--Water-quality monitor since November 1974. Digital recorder set for one-hour-interval punches.

REMARKS.--On Jan. 28, 1985 and accidental spill of hydrochloric acid occurred about 0.5 mi above monitoring site. This may have contributed to the maximum recorded value.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 1,420 microsiemens, Jan. 28, 1985; minimum recorded, 98 microsiemens, Apr. 28, 1983.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, (more than 20 percent missing record) 1,420 microsiemens, Jan. 28; minimum recorded, 171 microsiemens, Feb. 8.

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	736	654	696	804	778	794	---	---	---	960	884	925
2	736	660	707	794	770	781	---	---	---	908	870	889
3	736	698	725	778	760	770	---	---	---	940	908	922
4	736	676	709	782	756	769	---	---	---	942	910	928
5	756	670	720	776	754	765	---	---	---	968	926	953
6	760	670	727	768	744	755	---	---	---	968	906	951
7	762	658	725	780	687	763	---	---	---	906	814	857
8	764	676	730	---	---	---	---	---	---	866	740	785
9	756	694	727	---	---	---	---	---	---	900	866	889
10	746	696	718	---	---	---	---	---	---	902	868	882
11	724	560	640	---	---	---	---	---	---	946	880	900
12	636	586	608	---	---	---	---	---	---	1000	946	966
13	680	636	654	---	---	---	---	---	---	982	920	950
14	696	670	684	---	---	---	---	---	---	998	278	680
15	718	686	701	---	---	---	---	---	---	288	266	277
16	728	612	690	---	---	---	---	---	---	292	268	279
17	632	604	620	---	---	---	---	---	---	292	270	284
18	648	604	629	---	---	---	---	---	---	306	268	281
19	636	610	624	---	---	---	---	---	---	274	258	266
20	650	624	637	---	---	---	1020	932	966	272	256	263
21	666	644	656	---	---	---	996	940	965	274	262	268
22	674	644	663	---	---	---	966	950	958	280	268	273
23	688	662	675	---	---	---	994	926	954	536	274	364
24	694	664	679	---	---	---	994	932	961	282	272	278
25	702	674	686	---	---	---	992	956	970	282	268	277
26	718	700	710	---	---	---	974	930	952	292	268	277
27	728	706	719	---	---	---	966	928	947	296	280	289
28	736	712	723	---	---	---	1030	956	992	1420	283	345
29	726	706	717	---	---	---	1020	952	980	297	283	290
30	792	640	745	---	---	---	1010	964	982	291	275	286
31	800	788	795	---	---	---	984	936	961	555	287	370
MONTH	800	560	692	---	---	---	---	---	---	1420	256	563

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	683	391	501	807	759	775	---	---	---	654	608	634
2	719	401	525	771	753	764	---	---	---	648	610	631
3	405	385	393	775	737	760	---	---	---	646	614	632
4	403	389	396	773	661	734	---	---	---	657	609	634
5	419	393	406	735	549	704	---	---	---	645	601	621
6	645	407	492	723	601	671	---	---	---	629	587	614
7	751	573	683	687	591	640	---	---	---	639	589	623
8	659	171	406	721	675	694	---	---	---	657	618	636
9	687	449	574	783	713	738	---	---	---	660	624	638
10	753	675	708	737	531	674	---	---	---	646	542	610
11	801	753	780	695	631	669	---	---	---	658	580	623
12	849	801	825	727	689	705	---	---	---	662	620	641
13	869	835	851	729	701	717	---	---	---	638	610	624
14	913	855	876	763	705	727	---	---	---	641	609	625
15	907	759	835	777	737	758	---	---	---	645	609	631
16	909	831	860	797	769	782	---	---	---	655	629	642
17	851	677	766	857	785	803	---	---	---	635	455	491
18	823	661	724	825	725	769	---	---	---	489	313	340
19	755	659	701	829	747	772	---	---	---	354	324	334
20	735	689	715	831	777	805	---	---	---	340	312	324
21	857	703	770	835	771	793	---	---	---	376	340	350
22	843	733	772	835	795	809	---	---	---	406	334	355
23	773	747	759	833	773	800	---	---	---	408	398	402
24	819	759	781	817	793	806	---	---	---	407	355	396
25	841	777	816	831	771	808	---	---	---	365	333	354
26	799	777	790	851	299	729	---	---	---	351	317	330
27	799	761	781	---	---	---	705	643	675	353	337	347
28	811	779	798	---	---	---	681	612	651	347	310	325
29	---	---	---	---	---	---	652	594	626	328	300	312
30	---	---	---	---	---	---	640	514	584	308	284	295
31	---	---	---	---	---	---	---	---	---	412	306	314
MONTH	913	171	689	---	---	---	---	---	---	662	284	494

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	309	290	300	417	383	403	445	424	437	448	425	431
2	296	276	286	419	380	402	451	422	438	463	442	450
3	296	287	292	413	309	374	448	419	431	474	450	459
4	306	284	294	416	341	388	471	410	434	470	441	453
5	319	291	303	412	377	393	483	412	434	484	458	467
6	356	310	324	412	327	373	430	419	424	484	455	468
7	459	356	403	400	339	383	453	422	432	474	462	469
8	473	300	335	404	341	372	453	434	445	466	457	462
9	329	295	307	400	338	368	455	431	443	475	462	467
10	321	304	313	383	341	360	462	438	451	484	471	477
11	316	285	300	---	---	---	455	415	442	499	478	486
12	293	284	288	420	395	407	478	435	451	526	486	511
13	294	274	283	438	401	419	462	434	450	486	449	466
14	306	273	284	423	380	402	463	432	449	472	449	462
15	320	278	301	436	397	422	432	375	391	481	459	469
16	349	299	326	426	379	400	392	368	380	482	466	472
17	366	314	337	415	385	399	404	372	381	486	479	484
18	362	313	341	421	390	411	434	402	417	490	480	485
19	378	326	350	409	393	402	455	414	440	495	483	489
20	411	349	381	432	407	419	472	448	458	497	486	492
21	418	369	406	420	404	413	484	434	470	499	484	492
22	4.2	371	397	423	413	419	486	400	428	502	489	496
23	420	385	408	424	414	418	450	421	428	508	496	501
24	423	408	417	432	412	422	469	450	461	501	479	490
25	423	385	414	430	409	422	504	468	483	511	490	498
26	423	394	407	433	406	417	565	504	530	---	---	---
27	427	393	410	443	410	427	581	544	563	---	---	---
28	416	398	407	445	427	434	544	459	489	---	---	---
29	403	369	387	442	430	437	482	475	479	---	---	---
30	418	378	405	442	422	433	476	451	459	---	---	---
31	---	---	---	445	421	433	456	428	437	---	---	---
MONTH	473	273	347	---	---	---	581	368	447	---	---	---

11179000 ALAMEDA CREEK NEAR NILES, CA

LOCATION.--Lat 37°35'14", long 121°57'35", in NW 1/4 sec.15, T.4 S., R.1 W., Alameda County, Hydrologic Unit 18050004, on right bank 0.3 mi downstream from railroad bridge, 1.2 mi northeast of Niles, and 8.3 mi downstream from James H. Turner Dam on San Antonio Creek.

DRAINAGE AREA.--633 mi^2.

WATER-DISCHARGE RECORDS

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 Sunolglen" 1901-21.

REVISED RECORDS.--WSP 1315-B: 1921. WSP 1515: 1951-52, 1956. WSP 1565: 1945.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 85.65 ft above National Geodetic Vertical Datum of 1929. Prior to 1901, nonrecording gage at site 1 mi 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 upstream at different datum. Oct. 1, 1916, to Dec. 17, 1923, water-stage recorder at site 800 ft upstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 29-30 and Mar. 2-14. Records good. Flow regulated since 1916 by Calaveras Reservoir, although dam not completed until 1925, usable capacity, 96,800 acre-ft, most of which is diverted for San Francisco water supply; since February 1965 by San Antonio Reservoir, capacity, 51,000 acre-ft; and since September 1968 by Del Valle Reservoir, 23 mi upstream, capacity, 77,100 acre-ft. Natural flow of stream affected by water imported from Delta-Mendota Canal beginning in 1962. Other diversions from ground-water basin for irrigation of 9,000 acres above station.

AVERAGE DISCHARGE.--71 years (water years 1892-1962), 123 ft^3/s, 89,050 acre-ft/yr; 23 years (water years 1963-85), 123 ft^3/s, 89,110 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,000 ft^3/s, Dec. 23, 1955, gage height, 14.9 ft; minimum, (water years 1892-1962), no flow at times; minimum daily (water years 1963-85), 0.63 ft^3/s, Oct. 7-10, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,530 ft^3/s, Feb. 8, gage height, 7.38 ft; minimum daily, 0.63 ft^3/s, Oct. 7-10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.79	6.7	29	24	18	39	51	26	37	45	60	55
2	.78	5.9	32	28	31	40	46	24	49	43	60	58
3	.77	34	121	26	34	43	32	23	50	43	57	57
4	.72	16	39	26	37	54	29	23	40	42	19	55
5	.70	9.4	45	18	45	62	26	23	41	42	46	56
6	.65	14	37	14	32	146	25	22	41	42	59	57
7	.63	20	25	19	12	267	26	21	19	42	60	57
8	.63	183	22	36	1240	85	25	19	36	42	60	52
9	.63	56	19	21	224	63	24	22	59	42	59	21
10	.63	24	120	24	101	238	22	24	51	44	59	16
11	51	77	51	18	73	155	21	21	42	48	61	12
12	21	28	44	15	60	87	29	23	42	48	60	24
13	11	285	42	12	52	68	32	24	43	56	60	39
14	9.3	61	23	14	36	55	23	28	43	58	57	40
15	8.3	27	72	27	33	35	22	25	45	57	60	43
16	15	107	97	26	34	31	32	19	46	57	61	52
17	78	60	49	27	34	29	50	16	49	58	60	53
18	15	60	41	33	34	32	41	21	45	57	58	52
19	11	36	36	37	34	36	38	24	43	58	57	52
20	12	26	26	40	41	28	35	24	44	62	57	45
21	9.6	27	31	39	39	35	34	24	46	61	57	41
22	8.9	28	29	36	39	36	26	22	47	61	55	42
23	7.4	30	27	22	39	29	31	22	48	60	56	42
24	5.8	88	28	33	38	30	35	22	46	59	54	41
25	4.7	49	27	35	38	31	31	26	45	58	57	40
26	3.9	35	29	35	42	269	29	26	44	58	56	40
27	3.3	155	37	37	42	331	30	29	44	60	55	40
28	2.9	434	29	43	37	231	27	24	43	61	55	41
29	3.2	99	27	48	---	99	25	38	44	61	55	42
30	11	59	26	38	---	67	29	35	44	60	55	39
31	8.4	---	26	28	---	58	---	36	---	60	55	---
TOTAL	307.63	2140.0	1286	879	2519	2809	926	756	1316	1645	1740	1304
MEAN	9.92	71.3	41.5	28.4	90.0	90.6	30.9	24.4	43.9	53.1	56.1	43.5
MAX	78	434	121	48	1240	331	51	38	59	62	61	58
MIN	.63	5.9	19	12	12	28	21	16	19	42	19	12
AC-FT	610	4240	2550	1740	5000	5570	1840	1500	2610	3260	3450	2590

CAL YR 1984 TOTAL 20586.11 MEAN 56.2 MAX 793 MIN .63 AC-FT 40830
WTR YR 1985 TOTAL 17627.63 MEAN 48.3 MAX 1240 MIN .63 AC-FT 34960

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1906, 1952-73, 1975 to current year.
CHEMICAL ANALYSES: Water years 1906, 1952-67, 1969, 1975-79.
SPECIFIC CONDUCTANCE: Water years 1956-57, 1959-62, 1976 to current year.
WATER TEMPERATURES: Water years 1956-73, 1976-78.
SEDIMENT RECORDS: Water years 1957-73.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1956 to July 1957, August 1959 to September 1962, October 1975 to current year.
WATER TEMPERATURES: July 1956 to September 1973, October 1975 to September 1978.

INSTRUMENTATION.--Water-quality monitor since October 1975. Digital recorder set for one-hour-interval punches.

REMARKS.--Differences between specific conductance recorder values before adjustment and field measurement values exceeded ±10 percent at times during the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 1,530 microsiemens, Nov. 19, 1977; minimum recorded, 122 microsiemens, Jan. 22, 1983.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, (more than 20 percent missing record), 1,360 microsiemens, Oct. 30; minimum recorded, 178 microsiemens, Feb. 8.

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	1080	1040	1060				---	---	---
2	---	---	---	1040	1040	1040				---	---	---
3	---	---	---	1140	848	1010				---	---	---
4	---	---	---	848	718	781				1210	1090	1140
5	---	---	---	752	718	732				1170	1050	1120
6	---	---	---	916	752	804				1050	1020	1030
7	---	---	---	968	916	947				1150	1030	1090
8	---	---	---	968	602	862				1220	910	1090
9	---	---	---	696	602	620				1060	895	956
10	---	---	---	738	696	724				1230	1030	1110
11	---	---	---	744	624	685				1220	1010	1070
12	---	---	---	668	624	632				1060	1010	1030
13	---	---	---	704	456	566				1050	1020	1030
14	---	---	---	540	456	508				1100	1050	1060
15	---	---	---	544	540	541				1210	790	949
16	---	---	---	552	544	547				805	780	794
17	---	---	---	556	552	553				810	784	801
18	---	---	---	556	556	556				876	706	792
19	---	---	---	720	556	625				706	671	684
20	---	---	---	738	720	727				729	662	692
21	---	---	---	742	738	740				729	641	665
22	---	---	---	---	---	---				646	626	633
23	1280	1130	1200	---	---	---				774	631	714
24	1280	1270	1280	---	---	---				1160	677	829
25	1270	1240	1260	---	---	---				677	654	665
26	1240	1240	1240	---	---	---				663	653	660
27	1240	1240	1240	---	---	---				734	660	704
28	1240	1240	1240	---	---	---				742	664	689
29	1240	1220	1230	---	---	---				982	621	767
30	1360	1230	1330	---	---	---				702	621	676
31	1310	1080	1200	---	---	---				694	632	660
MONTH	---	---	---	---	---	---				---	---	---

11179000 ALAMEDA CREEK NEAR NILES, CA--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1140	658	767				---	---	---	1040	960	982
2	1290	688	952				---	---	---	1040	970	1000
3	1140	626	739				---	---	---	1010	957	982
4	670	626	649				---	---	---	1100	974	1010
5	660	574	592				---	---	---	993	941	966
6	602	584	588				---	---	---	1010	962	984
7	938	602	700				---	---	---	1020	975	990
8	1040	178	434				---	---	---	1010	973	980
9	---	---	---				---	---	---	991	976	982
10	---	---	---				---	---	---	1010	956	989
11	---	---	---				---	---	---	976	949	957
12	---	---	---				---	---	---	1080	968	1010
13	---	---	---				---	---	---	1190	1050	1090
14	---	---	---				---	---	---	1180	999	1070
15	---	---	---				---	---	---	1110	991	1030
16	---	---	---				---	---	---	1020	932	992
17	---	---	---				---	---	---	963	919	930
18	---	---	---				---	---	---	1030	916	953
19	---	---	---				---	---	---	971	844	880
20	---	---	---				---	---	---	888	833	857
21	---	---	---				---	---	---	924	842	860
22	---	---	---				---	---	---	865	810	837
23	---	---	---				---	---	---	880	817	834
24	---	---	---				---	---	---	850	812	833
25	---	---	---				---	---	---	848	827	835
26	---	---	---				1050	931	982	965	848	935
27	---	---	---				1150	983	1020	960	856	903
28	---	---	---				1010	957	987	941	800	866
29	---	---	---				1060	960	980	994	788	866
30	---	---	---				1140	934	1000	845	766	818
31	---	---	---				---	---	---	812	761	782
MONTH	---	---	---				---	---	---	1190	761	936

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	821	764	789	611	558	580	590	542	552	640	591	606
2	888	761	788	605	584	594	606	542	565	635	581	590
3	902	793	825	598	576	588	636	530	566	672	593	619
4	834	782	801	576	541	562	646	560	591	665	600	613
5	885	786	820	565	531	544	952	540	650	642	590	604
6	921	776	817	551	528	538	590	526	545	645	585	602
7	896	802	829	546	517	527	580	526	538	614	595	602
8	964	757	838	546	515	527	590	518	537	602	589	594
9	827	637	762	546	514	526	614	514	545	639	602	619
10	769	576	657	522	512	517	572	542	560	1130	638	967
11	724	626	675	519	499	507	562	520	540	1140	1040	1090
12	626	571	590	523	495	504	567	512	528	1120	727	981
13	585	539	564	555	489	506	561	511	522	727	614	657
14	589	538	557	521	487	499	547	497	508	653	602	613
15	637	550	572	559	485	507	551	495	508	652	595	609
16	656	562	600	573	503	531	565	499	514	625	571	588
17	711	643	685	549	515	534	593	509	531	614	564	578
18	647	561	616	529	499	517	587	531	545	643	577	594
19	565	536	547	529	489	509	605	543	557	646	578	595
20	618	538	567	524	485	504	607	531	558	646	577	598
21	626	545	583	584	514	530	622	563	576	685	592	618
22	656	595	615	578	506	527	660	584	607	722	593	622
23	651	566	593	644	522	552	669	590	609	649	598	612
24	630	566	588	648	534	568	653	580	600	676	592	615
25	598	535	560	600	544	564	644	577	593	689	605	634
26	622	544	570	612	534	554	655	574	593	655	603	619
27	629	560	581	614	536	557	636	571	589	631	621	624
28	601	580	588	582	532	544	655	576	595	621	609	612
29	580	562	567	552	528	534	584	568	576	623	605	611
30	586	547	562	574	524	541	641	565	592	637	611	619
31	---	---	---	592	540	552	679	580	613	---	---	---
MONTH	964	535	657	648	485	537	952	495	565	1140	564	650

11180500 DRY CREEK AT UNION CITY, CA

LOCATION.--Lat 37°36'22", long 122°01'22", in Arroyo de la Alameda Grant, Alameda County, Hydrologic Unit 18050004, on right bank 900 ft downstream from bridge on State Highway 238 in Decoto District in Union City, and 1.7 mi upstream from mouth.

DRAINAGE AREA.--9.39 mi^2.

PERIOD OF RECORD.--October 1916 to September 1919 (published as "near Decoto"), April 1959 to current year.

REVISED RECORDS.--WSP 2129: 1962(M), 1968(P). WDR CA-76-2: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 85.12 ft above National Geodetic Vertical Datum of 1929. Prior to Apr. 1, 1959, at site 1.4 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. No regulation or diversion above station.

AVERAGE DISCHARGE.--29 years, 2.62 ft^3/s, 1,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,330 ft^3/s, Jan. 26, 1983, gage height, 5.14 ft; maximum gage height, 5.27 ft, Oct. 13, 1962 from high water marks past gage, from rating curve extended above 600 ft^3/s, on basis of slope-area measurement of maximum flow; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 90 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 27	1930	101	2.60	Feb. 8	1015	*109	*2.63

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	3.4	1.0	.41	.32	2.2	.21				0
2	0	0	4.0	.96	.47	.32	1.9	.20				0
3	0	0	6.2	.89	.46	.32	1.7	.18				0
4	0	0	3.5	.83	.42	.35	1.4	.35				0
5	0	0	3.5	.78	.39	1.1	1.3	.28				0
6	0	.01	2.9	.77	.37	3.1	1.2	.15				0
7	0	.21	2.3	.99	.49	4.7	1.1	.14				0
8	0	.25	2.0	1.3	24	1.8	1.0	.13				.01
9	0	.04	1.8	1.0	6.3	1.2	.92	.13				.01
10	.11	.21	7.5	.85	3.5	5.7	.86	.26				.01
11	.11	.29	3.7	.77	2.5	3.8	.81	.18				0
12	0	.46	3.3	.73	2.1	2.4	.77	.16				0
13	0	4.3	2.7	.68	1.8	1.9	.73	.13				0
14	0	.75	2.2	.66	1.5	1.6	.64	.10				0
15	0	.35	13	.61	1.3	1.4	.59	.07				0
16	.48	2.7	8.3	.60	1.2	1.2	.53	.03				0
17	.04	2.3	5.3	.55	1.1	1.2	.65	.02				0
18	0	3.9	4.3	.55	1.0	2.5	.58	.01				0
19	0	2.0	3.5	.55	.89	1.7	.51	.02				0
20	0	1.7	2.8	.55	.79	1.3	.50	.01				0
21	0	1.6	2.4	.53	.67	1.1	.55	0				0
22	0	1.0	2.2	.51	.61	.99	.50	0				0
23	0	.78	2.0	.51	.53	.89	.47	0				0
24	0	3.7	1.8	.49	.56	.78	.41	0				0
25	0	2.4	1.6	.47	.53	.74	.32	0				0
26	0	1.8	1.7	.53	.49	12	.26	0				0
27	0	17	1.8	.49	.47	10	.28	0				0
28	0	18	1.5	.62	.34	6.8	.25	0				0
29	0	7.0	1.3	.60	---	4.1	.24	0				0
30	0	4.6	1.1	.51	---	3.1	.23	0	---			0
31	0	---	1.1	.46	---	2.6	---	0				---
TOTAL	0.74	77.35	104.7	21.34	55.19	81.01	23.40	2.76	0	0	0	0.03
MEAN	.024	2.58	3.38	.69	1.97	2.61	.78	.089	0	0	0	.001
MAX	.48	18	13	1.3	24	12	2.2	.35	0	0	0	.01
MIN	0	0	1.1	.46	.34	.32	.23	0	0	0	0	0
AC-FT	1.5	153	208	42	109	161	46	5.5	0	0	0	.06

CAL YR 1984	TOTAL	739.66	MEAN	2.02	MAX	23	MIN	0	AC-FT	1470
WTR YR 1985	TOTAL	366.52	MEAN	1.00	MAX	24	MIN	0	AC-FT	727

11180700 PATTERSON CREEK AT UNION CITY, CA

LOCATION.--Lat 37°55'09", long 122°02'50", in Potrero de Los Cerritos Grant, Alameda County, Hydrologic Unit 18050004, on right bank 0.1 mi downstream from effluence from Alameda Creek, 0.2 mi upstream from bridge on State Highway 17 (Nimitz Freeway), and 2.0 mi 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 above National Geodetic Vertical Datum of 1929. Prior to Oct. 26, 1966, at site 0.2 mi downstream at same datum.

REMARKS.--Estimated daily discharges: Apr. 25-29. Records poor. This stream is a distributary of Alameda Creek. (See REMARKS for Alameda Creek near Niles station 11179000). 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,800 ft^3/s, Jan. 24, 1983, gage height, 16.70 ft; no flow at times in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,530 ft^3/s, Feb. 8, gage height, 12.31 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	0	.48	0	.15	.55	2.2	.04	0	0	.03	.14
2	0	.01	2.5	0	.18	1.8	2.4	.01	.05	0	.03	.18
3	0	0	341	0	.09	8.6	7.7	0	.03	0	.03	.14
4	0	0	60	0	.09	50	6.7	0	.03	0	.03	.10
5	0	0	40	.01	.08	224	.29	.01	.03	0	.04	.10
6	0	.06	54	.01	.07	207	.07	0	.02	0	.04	.08
7	.01	1.9	.33	.23	.10	411	.03	0	.02	0	.04	.08
8	0	371	.03	.14	2120	116	.04	0	.02	0	.05	1.8
9	0	174	0	.05	428	46	.02	0	.02	0	.05	.15
10	.43	31	268	.04	120	289	.01	.03	.02	0	.06	.10
11	16	132	78	.04	3.0	231	1.6	.01	.01	0	.06	.09
12	.07	46	17	.04	1.1	7.2	.26	0	0	0	.05	.07
13	.01	690	22	.04	.72	1.7	.04	0	.01	0	.06	.07
14	0	159	8.6	.04	.41	8.7	0	0	0	0	.08	.06
15	0	19	96	.04	.23	.77	0	0	.02	0	.08	.05
16	63	183	239	.04	.18	.21	0	0	.02	0	.09	.05
17	20	140	61	.05	.13	.40	0	.01	0	0	.09	.04
18	114	94	27	.04	.12	7.1	2.5	0	0	0	.10	.06
19	49	32	4.0	.05	.12	.98	3.1	0	0	0	.09	.05
20	4.4	.09	.11	.07	.11	.22	1.4	0	0	0	.09	.05
21	.13	0	.05	.06	.12	.09	1.0	0	.02	.01	.11	.05
22	.02	0	.02	.06	.12	.06	.75	0	.02	.02	.10	.04
23	0	0	.01	.06	.15	.07	.09	0	0	.02	.11	.03
24	0	12	0	.06	.26	.06	.02	.01	0	.03	.11	.01
25	0	54	.01	.06	.29	.05	1.3	.01	0	.03	.13	0
26	.02	.04	.05	.13	.24	371	1.0	.02	0	.02	.14	0
27	0	207	.04	.11	.20	714	.78	.02	0	.01	.13	0
28	0	1130	.02	.53	.19	348	.52	.03	0	.01	.15	.01
29	.07	151	0	11	---	110	.27	.02	0	.02	.15	0
30	0	19	0	20	---	34	.10	0	0	.02	.18	0
31	0	---	0	.37	---	28	---	0	---	.03	.16	---
TOTAL	267.18	3646.10	1319.25	33.37	2676.45	3217.56	34.19	0.22	0.34	0.22	2.66	3.60
MEAN	8.62	122	42.6	1.08	95.6	104	1.14	.007	.011	.007	.086	.12
MAX	114	1130	341	20	2120	714	7.7	.04	.05	.03	.18	1.8
MIN	0	0	0	0	.07	.05	0	0	0	0	.03	0
AC-FT	530	7230	2620	66	5310	6380	68	.4	.7	.4	5.3	7.1

CAL YR 1984 TOTAL 14768.17 MEAN 40.4 MAX 1130 MIN 0 AC-FT 29290
WTR YR 1985 TOTAL 11201.14 MEAN 30.7 MAX 2120 MIN 0 AC-FT 22220

11180825 SAN LORENZO CREEK ABOVE DON CASTRO RESERVOIR NEAR CASTRO VALLEY, CA

LOCATION.--Lat 37°41'42", long 122°02'38", in San Lorenzo Grant, Alameda County, Hydrologic Unit 18050004, on left bank, 250 ft south of Interstate 580, 0.4 mi southeast of Independent School, and 2.2 mi east of Castro Valley.

DRAINAGE AREA.--18.0 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1980 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 260 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Mar. 26, July 28-31. Records fair. Some regulation of low flow by ponds above station.

AVERAGE DISCHARGE.--5 years, 10.6 ft^3/s, 7,680 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,280 ft^3/s, Jan. 24, 1983, gage height, 9.50 ft; no flow for several days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 398 ft^3/s, Feb. 8, gage height, 4.05 ft; minimum daily, 0.02 ft^3/s, several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.29	.34	3.3	3.5	2.1	2.9	5.3	2.1	1.7	.04	.05	.05
2	.53	2.4	8.3	3.0	2.0	2.9	4.8	2.2	3.1	.03	.04	.49
3	.40	.97	8.1	3.0	1.7	2.7	4.3	2.1	1.9	.03	.02	.44
4	.57	.61	4.5	3.0	1.6	3.3	4.0	2.2	2.3	.03	.03	.14
5	1.2	.61	5.7	3.0	1.6	7.6	3.5	2.1	2.1	.03	.02	.15
6	.53	2.7	4.5	3.0	1.6	15	3.3	1.4	1.9	.02	.02	.15
7	.44	7.6	3.9	4.0	4.2	16	3.0	2.0	1.8	.02	.02	.21
8	.44	16	3.6	3.7	102	7.5	2.9	2.2	1.9	.03	.13	2.8
9	.99	1.5	3.6	2.8	20	6.0	2.7	2.3	1.7	.05	.18	.44
10	3.1	4.4	14	2.8	13	15	2.7	2.4	1.5	.12	.02	.06
11	9.8	2.6	5.8	2.8	7.8	10	2.6	2.3	1.2	.19	.03	.07
12	.81	9.2	5.1	2.8	5.6	8.0	2.5	2.2	1.2	.16	.03	.08
13	.53	21	4.7	2.3	4.8	6.8	2.4	1.9	1.4	.23	.03	.08
14	.46	2.2	4.1	2.5	4.0	6.0	2.3	1.1	1.6	.10	.03	.07
15	1.3	2.5	21	2.9	3.8	5.6	2.1	1.1	1.4	.14	.03	.08
16	13	13	15	3.0	3.3	5.5	2.3	1.0	1.3	.08	.03	.06
17	1.7	4.8	8.2	2.7	2.7	5.2	2.4	1.1	1.1	.24	.03	.23
18	.98	5.7	7.1	2.1	2.4	4.9	2.2	1.0	1.1	.13	.04	.74
19	.67	1.9	5.7	2.1	2.2	4.5	2.0	1.2	1.2	.12	.02	.35
20	.57	2.1	4.8	2.1	2.8	4.7	2.0	1.2	1.8	.28	.02	.28
21	.56	1.6	4.4	2.1	2.5	4.4	2.2	1.1	1.4	.43	.02	.19
22	.59	1.4	4.1	2.1	2.3	3.9	2.1	1.1	1.3	.32	.02	.15
23	.91	1.3	4.0	2.0	2.1	3.8	2.0	1.3	.83	.20	.02	.08
24	.40	8.2	4.0	1.9	2.4	3.6	1.9	1.2	.74	.53	.02	.21
25	.34	2.0	4.1	1.8	2.7	3.6	1.8	1.3	.42	.55	.03	.13
26	.42	1.5	4.4	2.0	2.9	31	1.8	1.5	.21	.66	.04	.08
27	.52	25	4.1	1.9	2.9	19	1.8	1.6	.05	.76	.04	.22
28	.46	16	3.9	2.4	2.9	12	1.8	1.7	.04	1.4	.03	.17
29	1.6	6.2	3.6	2.1	---	8.4	1.9	1.6	.04	1.5	.04	.25
30	.35	4.2	3.6	1.9	---	5.8	2.1	1.6	.05	1.3	.05	.31
31	.36	---	3.6	1.8	---	5.7	---	1.7	---	.63	.05	---
TOTAL	44.82	169.53	184.8	79.1	209.9	241.3	78.7	50.8	38.28	10.35	1.18	8.76
MEAN	1.45	5.65	5.96	2.55	7.50	7.78	2.62	1.64	1.28	.33	.038	.29
MAX	13	25	21	4.0	102	31	5.3	2.4	3.1	1.5	.18	2.8
MIN	.29	.34	3.3	1.8	1.6	2.7	1.8	1.0	.04	.02	.02	.05
AC-FT	89	336	367	157	416	479	156	101	76	21	2.3	17

CAL YR 1984 TOTAL 1677.24 MEAN 4.58 MAX 74 MIN .18 AC-FT 3330
WTR YR 1985 TOTAL 1117.52 MEAN 3.06 MAX 102 MIN .02 AC-FT 2220

11180825 SAN LORENZO CREEK ABOVE DON CASTRO RESERVOIR NEAR CASTRO VALLEY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1980 to current year (storm season only).
WATER TEMPERATURES: December 1980 to current year.
SEDIMENT RECORDS: December 1980 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: December 1980 to current year.
SEDIMENT RECORDS: December 1980 to current year.

REMARKS.--Sediment samples were collected on most days where water temperature is published. Zero bedload discharge observed for flows less than 17 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--
SEDIMENT CONCENTRATIONS (storm season only): Maximum daily mean, 10,000 mg/L Jan. 4, 1982; minimum daily mean, 2 mg/L Jan. 2, 3, 5, Mar. 3, 4, 1981.
SEDIMENT LOAD (storm season only): Maximum daily, 19,800 tons Jan. 4, 1982; minimum daily, 0 ton several days in most years.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS (storm season only): Maximum daily mean, 3,640 mg/L Feb. 8; minimum daily mean, 4 mg/L Apr. 30.
SEDIMENT LOAD (storm season only): Maximum daily, 2,110 tons Feb. 8; minimum daily, 0.01 ton several days in October and November.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---		---
2	---	---	10.0	---	6.0	---	---	---	---	---		---
3	---	12.5	10.0	---	---	---	---	---	---	---		---
4	---	---	---	---	---	9.5	---	---	---	---		17.5
5	---	---	---	---	---	8.0	---	---	---	---		---
6	---	15.0	---	10.5	---	9.0	---	---	---	---		---
7	---	---	---	12.0	---	9.0	---	---	---	---		---
8	---	12.0	---	10.0	7.0	10.5	14.5	---	---	---		---
9	---	10.5	---	---	7.0	11.0	---	---	---	---		---
10	---	12.5	---	---	7.5	10.0	---	---	---	---		---
11	---	---	---	---	6.5	12.0	---	---	---	---		---
12	---	13.0	---	---	8.0	---	---	---	---	---		---
13	---	13.5	---	---	10.0	---	---	---	---	---		---
14	---	---	---	---	---	---	15.0	---	---	---		---
15	---	12.0	10.0	---	---	---	---	---	---	---		---
16	12.0	13.5	9.0	---	---	---	---	---	---	---		---
17	12.0	13.0	7.0	---	---	---	---	---	---	---		---
18	10.5	11.5	9.5	---	---	12.0	---	---	---	---		---
19	12.5	---	8.0	---	---	---	---	---	---	---		---
20	---	11.5	---	---	9.0	---	---	---	---	---		---
21	---	---	---	---	---	---	12.5	---	---	---		---
22	12.5	---	---	8.0	---	---	---	18.0	---	---		---
23	---	---	---	8.5	---	---	---	---	---	---		---
24	14.5	---	---	---	---	11.0	11.0	---	---	---		---
25	---	10.0	8.0	---	---	---	---	---	---	---		---
26	---	---	9.0	8.5	---	9.5	---	---	16.5	---		---
27	---	---	---	---	10.5	9.0	14.0	---	---	---		---
28	---	10.5	---	8.0	8.5	9.0	---	---	---	---		---
29	---	9.5	---	---	---	9.0	---	---	---	---		---
30	---	9.5	---	---	---	12.0	12.5	---	---	---		---
31	---	---	8.0	---	---	12.5	---	---	---	15.5		---
MONTH	---	---	---	---	---	---	---	---	---	---		---

11180825 SAN LORENZO CREEK ABOVE DON CASTRO RESERVOIR, NEAR CASTRO VALLEY, CA--Continued

SUSPENDED-SEDIMENT, OCTOBER 1984 TO APRIL 1985

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	10	.01	8	.01	5	.04	7	.07	14	.12	11	.09
2	16	.02	29	.62	368	18	7	.06	17	.10	10	.08
3	9	.01	15	.04	163	4.9	7	.06	10	.05	10	.07
4	16	.04	10	.02	55	.68	7	.06	10	.04	19	.20
5	26	.14	9	.01	64	1.0	7	.06	9	.04	149	6.6
6	14	.02	57	.60	67	.81	7	.06	9	.04	368	34
7	10	.01	307	24	60	.63	19	.23	70	5.1	208	13
8	9	.01	781	68	55	.53	15	.15	3640	2110	16	.32
9	10	.03	79	.32	51	.50	14	.11	179	11	12	.19
10	62	4.5	178	3.9	654	30	14	.11	122	5.3	285	17
11	1030	61	157	1.5	191	3.0	14	.11	67	1.4	88	2.6
12	216	.47	627	46	20	.28	13	.10	48	.73	28	.60
13	38	.05	1010	101	9	.11	13	.08	46	.60	21	.39
14	13	.02	118	.70	9	.10	12	.08	32	.35	18	.29
15	15	.08	99	.91	510	57	12	.09	24	.25	15	.23
16	642	69	557	34	72	2.9	12	.10	20	.18	13	.19
17	358	1.6	211	6.3	41	.91	11	.08	18	.13	11	.15
18	93	.24	223	6.6	22	.42	11	.06	16	.10	10	.13
19	31	.06	60	.31	10	.15	11	.06	14	.08	10	.12
20	14	.02	66	.45	9	.12	10	.06	13	.10	10	.13
21	12	.02	45	.19	9	.11	10	.06	13	.09	10	.12
22	10	.02	41	.15	9	.10	10	.06	13	.08	10	.11
23	17	.06	41	.14	10	.11	9	.05	13	.07	10	.10
24	11	.01	343	11	11	.12	9	.05	13	.08	10	.10
25	12	.01	76	.41	12	.13	8	.04	13	.09	10	.10
26	13	.01	48	.19	14	.17	8	.04	13	.10	1060	258
27	14	.02	1200	252	12	.13	7	.04	13	.10	246	19
28	14	.02	318	21	10	.11	41	.30	12	.09	123	4.0
29	24	.18	53	.89	9	.09	23	.13	---	---	19	.43
30	8	.01	10	.11	8	.08	10	.05	---	---	21	.33
31	8	.01	---	---	7	.07	10	.05	---	---	15	.23
TOTAL	---	137.70	---	581.37	---	123.30	---	2.66	---	2136.41	---	358.90

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	15	.21										
2	16	.21										
3	17	.20										
4	17	.18										
5	18	.17										
6	18	.16										
7	19	.15										
8	20	.16										
9	20	.15										
10	19	.14										
11	19	.13										
12	19	.13										
13	18	.12										
14	18	.11										
15	18	.10										
16	18	.11										
17	18	.12										
18	18	.11										
19	18	.10										
20	18	.10										
21	18	.11										
22	19	.11										
23	20	.11										
24	21	.11										
25	18	.09										
26	15	.07										
27	12	.06										
28	9	.04										
29	6	.03										
30	4	.02										
31	---	---										
TOTAL	---	3.61										

TOTAL LOAD FOR PERIOD: 3343.95 TONS.

11180825 SAN LORENZO CREEK ABOVE DON CASTRO RESERVOIR, NEAR CASTRO VALLEY, CA--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, OCTOBER 1984 TO APRIL 1985

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1984	44.82	137.7	2	140
NOVEMBER ...	169.53	581.37	6	587
DECEMBER ...	184.8	123.3	2	125
JANUARY 1985	79.1	2.66	0	3
FEBRUARY ...	209.9	2136.41	16	2150
MARCH	241.3	358.90	6	365
APRIL	78.7	3.61	0	4
PERIOD	1008.15	3343.95	32	3374

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
OCT								
11...	1115	2.1	--	780	4.5	79	92	97
NOV								
13...	1200	15	13.5	659	27	74	90	96
DEC								
02...	1345	2.8	10.0	592	4.4	52	63	75
15...	1145	52	10.0	2460	347	34	41	53
FEB								
08...	1145	153	7.0	5310	2190	41	49	59
08...	1230	118	7.0	3700	1180	45	54	64
MAR								
26...	1555	30	9.5	799	65	42	53	66
26...	1705	84	9.5	3260	739	32	39	51

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM
OCT							
11...	99	100	--	--	--	--	--
NOV							
13...	98	99	100	--	--	--	--
DEC							
02...	87	95	100	--	--	--	--
15...	65	78	--	86	95	100	--
FEB							
08...	69	76	--	86	94	98	100
08...	74	82	--	91	97	99	100
MAR							
26...	79	90	--	98	100	--	--
26...	64	76	--	89	96	99	100

11180825 SAN LORENZO CREEK ABOVE DON CASTRO RESERVOIR, NEAR CASTRO VALLEY, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	STREAM-FLOW, INSTAN-TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM
SEP 04...	1500	17.5	5	0.12	6	13	27

DATE	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
SEP 04...	36	43	50	56	64	79	100

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR, NEAR CASTRO VALLEY, CA

LOCATION.--Lat 37°42'55", long 122°03'12", in San Lorenzo (Castro) Grant, Alameda County, Hydrologic Unit 18050004, on left bank 0.9 mi upstream from Cull Creek Dam and 1.1 mi northeast of Castro Valley Post Office.

DRAINAGE AREA.--5.79 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 450 ft above National Geodetic Vertical Datum of 1929, from topographic map. Recording rain gage 2.6 mi north of gage.

REMARKS.--Estimated daily discharges: Feb. 8-26. Records good.

AVERAGE DISCHARGE.--7 years, 4.64 ft^3/s, 3,360 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,690 ft^3/s, Jan. 5, 1982, gage height, 8.71 ft; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 8	0900	*315	*4.08				

No flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.09	1.2	.95	.59	1.2	2.1	.51	.13	.01		
2	0	.02	1.9	.93	.80	1.2	1.9	.51	.17	.01		
3	0	.01	2.5	.93	.65	1.1	1.9	.50	.16	.01		
4	0	.01	1.3	.93	.60	1.2	1.7	.44	.13	.01		
5	0	.01	1.4	.93	.57	2.0	1.5	.44	.13	.01		
6	0	.02	1.2	.89	.57	3.6	1.5	.44	.09	.01		
7	0	.39	1.0	1.1	1.4	6.7	1.5	.44	.09	.01		
8	0	3.7	1.0	1.1	80	2.3	1.4	.41	.09	.01		
9	0	.53	.87	.93	10	1.7	1.4	.38	.07	.01		
10	.07	.59	3.1	.86	5.0	5.2	1.2	.38	.06	.01		
11	.06	1.4	1.3	.84	3.7	3.0	1.2	.38	.06	.01		
12	.08	1.2	1.2	.81	3.1	2.1	1.1	.37	.04	.01		
13	.08	7.3	1.0	.77	2.6	1.7	.97	.32	.03	.01		
14	.01	.81	.96	.84	2.3	1.5	.97	.32	.02	.01		
15	.03	.46	8.9	.84	2.1	1.5	.97	.31	.02	.01		
16	.46	2.4	4.4	.82	1.8	1.3	.97	.27	.02	.01		
17	.26	1.1	2.7	.75	1.7	1.2	.97	.26	.02	0		
18	.03	1.5	1.9	.75	1.5	1.2	.97	.23	.02	0		
19	.10	.75	1.6	.75	1.5	1.2	.95	.23	.02	0		
20	.01	.65	1.4	.75	1.4	1.2	.86	.23	.02	.01		
21	.01	.53	1.3	.75	1.4	1.2	.86	.25	.03	0		
22	.04	.43	1.3	.74	1.4	1.1	.86	.20	.02	0		
23	.01	.37	1.3	.65	1.4	1.1	.84	.17	.02	0		
24	.01	2.7	1.2	.65	1.4	1.1	.75	.17	.02	0		
25	.01	.92	1.2	.65	1.4	1.0	.67	.17	.01	0		
26	.01	.66	1.2	.65	1.4	21	.67	.18	.01	0		
27	.17	16	1.2	.65	1.4	10	.67	.17	.01	0		
28	.01	6.9	1.2	.79	1.2	4.8	.67	.16	.01	0		
29	.03	2.3	1.0	.75	---	3.1	.60	.13	.01	.01		
30	.01	1.5	1.0	.65	---	2.5	.57	.13	.01	0		
31	.04	---	1.0	.58	---	2.3	---	.13	---	.01		
TOTAL	1.54	55.25	53.73	24.98	132.88	91.3	33.19	9.23	1.54	0.19	0	0
MEAN	.050	1.84	1.73	.81	4.75	2.95	1.11	.30	.051	.006	0	0
MAX	.46	16	8.9	1.1	80	21	2.1	.51	.17	.01	0	0
MIN	0	.01	.87	.58	.57	1.0	.57	.13	.01	0	0	0
AC-FT	3.1	110	107	50	264	181	66	18	3.1	.4	0	0
a	2.38	8.09	2.27	.58	3.01	4.12	.20	.15	.22	.05	0	.32

CAL YR 1984 TOTAL 566.57 MEAN 1.55 MAX 22 MIN 0 AC-FT 1120
WTR YR 1985 TOTAL 403.83 MEAN 1.11 MAX 80 MIN 0 AC-FT 801

a Precipitation in inches.

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR, NEAR CASTRO VALLEY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1979 to current year (storm season only).
WATER TEMPERATURES: Water years 1979 to current year.
SEDIMENT RECORDS: Water years 1979 to current year.

PERIOD OF DAILY RECORD.--
SEDIMENT RECORDS: October 1978 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 17,200 mg/L, Feb. 15, 1982; minimum daily mean, no flow many days in most years.
SEDIMENT LOAD: Maximum daily, 23,500 tons, Feb. 15, 1982; minimum daily, 0 ton many days most years.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 6,570 mg/L, Feb. 8; minimum daily mean, no flow many days.
SEDIMENT LOAD: Maximum daily, 2,770 tons, Feb. 8; minimum daily, no flow many days.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---			
2	---	11.0	9.5	---	7.0	---	---	---	---			
3	---	---	9.0	---	---	---	---	---	---			
4	---	12.0	---	---	---	11.0	---	---	---			
5	---	---	---	---	---	9.5	---	---	---			
6	---	12.5	---	10.0	---	10.0	---	---	---			
7	---	---	---	11.0	---	10.5	---	---	---			
8	---	12.5	---	10.0	11.0	12.0	14.0	---	---			
9	---	10.5	---	---	8.5	12.5	---	---	---			
10	---	12.5	---	---	9.0	11.5	---	---	---			
11	---	---	---	---	8.0	---	---	---	---			
12	---	13.0	---	---	9.5	---	---	---	---			
13	---	13.5	---	---	11.5	---	---	---	---			
14	---	---	---	---	---	---	14.5	---	---			
15	---	11.0	9.0	---	---	---	---	---	---			
16	11.5	12.0	7.5	---	---	---	---	---	---			
17	10.5	12.5	6.0	---	---	---	---	---	---			
18	10.5	12.0	7.0	---	---	11.5	---	---	---			
19	15.5	---	6.0	---	---	---	---	---	---			
20	---	10.5	---	---	10.5	---	---	---	---			
21	---	---	---	---	---	---	12.0	---	---			
22	10.5	---	---	7.5	---	---	---	13.0	---			
23	---	---	---	8.0	---	---	---	---	---			
24	---	---	---	---	---	10.5	15.0	---	---			
25	---	9.5	7.0	---	---	---	---	---	---			
26	---	---	8.0	10.0	11.0	7.5	---	---	14.0			
27	---	---	---	---	12.5	8.5	13.5	---	---			
28	11.5	11.0	---	9.5	---	9.5	---	---	---			
29	---	9.0	---	---	---	9.0	---	---	---			
30	---	9.0	---	---	---	11.0	13.0	---	---			
31	---	---	7.0	---	---	12.0	---	---	---			
MONTH	---	---	---	---	---	---	---	---	---			

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR, NEAR CASTRO VALLEY, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), OCTOBER 1984 TO APRIL 1985

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	0	.00	313	.18	5	.02	20	.05	15	.02	10	.03
2	0	.00	150	.01	111	1.1	19	.05	15	.03	11	.04
3	0	.00	104	.00	90	.61	18	.05	15	.03	12	.04
4	0	.00	91	.00	10	.04	17	.04	15	.02	13	.04
5	0	.00	83	.00	30	.12	16	.04	15	.02	56	.47
6	0	.00	138	.01	17	.06	15	.04	15	.02	104	1.6
7	0	.00	1090	8.8	10	.02	35	.12	61	1.4	351	8.5
8	0	.00	689	11	8	.02	19	.06	6570	2770	22	.14
9	0	.00	76	.11	8	.02	7	.02	200	5.4	12	.06
10	111	.06	69	.17	304	3.5	7	.02	61	.82	305	9.4
11	102	.02	139	.54	26	.09	7	.02	17	.17	65	.49
12	143	.07	152	1.2	8	.03	7	.02	20	.17	22	.12
13	174	.06	1290	36	8	.02	7	.01	13	.09	17	.08
14	112	.00	165	.36	8	.02	7	.02	13	.08	17	.07
15	103	.02	63	.08	1720	89	7	.02	12	.07	17	.07
16	246	.70	331	3.8	464	8.2	7	.02	11	.05	17	.06
17	197	.14	112	.33	9	.07	7	.01	10	.05	17	.06
18	156	.02	75	.30	8	.04	7	.01	9	.04	17	.06
19	400	.17	34	.07	9	.04	7	.01	8	.03	17	.06
20	255	.01	16	.03	9	.03	7	.01	8	.03	17	.06
21	134	.00	11	.02	9	.03	7	.01	8	.03	16	.05
22	214	.05	8	.02	10	.04	7	.01	7	.03	16	.05
23	130	.00	7	.02	10	.04	15	.03	7	.03	16	.05
24	89	.00	207	1.8	11	.04	15	.03	7	.03	16	.05
25	62	.00	53	.17	11	.04	15	.03	6	.02	16	.04
26	37	.00	33	.04	19	.06	15	.03	6	.02	2470	588
27	1790	5.2	5200	961	19	.06	14	.02	7	.03	653	30
28	422	.01	1580	55	20	.06	13	.03	8	.03	90	1.2
29	220	.01	31	.16	20	.05	13	.03	---	---	28	.23
30	162	.00	6	.02	21	.06	14	.02	---	---	18	.12
31	318	.07	---	---	21	.06	14	.02	---	---	30	.19
TOTAL	---	6.61	---	1081.24	---	103.59	---	0.90	---	2778.76	---	641.43

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	28	.16										
2	26	.13										
3	24	.12										
4	22	.10										
5	20	.08										
6	18	.07										
7	16	.06										
8	15	.06										
9	15	.06										
10	14	.05										
11	14	.05										
12	14	.04										
13	13	.03										
14	13	.03										
15	13	.03										
16	12	.03										
17	11	.03										
18	11	.03										
19	11	.03										
20	10	.02										
21	10	.02										
22	9	.02										
23	8	.02										
24	7	.01										
25	8	.01										
26	10	.02										
27	11	.02										
28	12	.02										
29	12	.02										
30	13	.02										
31	---	---										
TOTAL	---	1.39										

TOTAL LOAD FOR PERIOD: 4613.92

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR, NEAR CASTRO VALLEY, CA--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, OCTOBER 1984 TO APRIL 1985

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1984	1.54	6.61	0	7
NOVEMBER ...	55.25	1081.24	9	1090
DECEMBER ...	53.73	103.59	0	104
JANUARY 1985	24.98	.90	0	1
FEBRUARY ...	132.88	2778.76	60	2840
MARCH	91.30	641.43	13	654
APRIL	33.19	1.39	0	1
PERIOD	392.87	4613.92	82	4697

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM
OCT 27...	1150	2.4	--	11700	76	50	65	86	97
NOV 28...	0945	6.4	11.0	504	8.7	37	44	47	49
DEC 15...	1210	6.0	9.0	605	9.8	57	69	78	85
FEB 08...	1100	129	11.0	12800	4460	30	36	40	52
MAR 26...	1520	2.7	7.5	140	1.0	--	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
OCT 27...	99	--	100	--	--	--	--	--
NOV 28...	50	--	51	52	100	--	--	--
DEC 15...	89	--	92	95	98	100	--	--
FEB 08...	63	--	75	85	94	98	99	100
MAR 26...	--	--	96	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	STREAM-FLOW, INSTAN-TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
FEB 08...	1240	11.0	4	74	0	2	10	21
SEP 04...	1315	--	5	0.0	2	3	11	23

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
FEB 08...	31	44	60	76	91	100	--
SEP 04...	35	51	64	76	86	96	100

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR, NEAR CASTRO VALLEY, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	STREAM-FLOW, INSTAN-TANEOUS (CFS)	STREAM WIDTH (FT)	SEDI-MENT DIS-CHARGE, BEDLOAD (TONS/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
FEB 08...	1310	11.0	15	66	21.0	189	4

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM
FEB 08...	11	21	35	54	74	90	100

SAN LORENZO CREEK BASIN

11181008 CASTRO VALLEY CREEK AT HAYWARD, CA

LOCATION.--Lat 37°40'48", long 122°04'46", in San Lorenzo (Castro) Grant, Alameda County, Hydrologic Unit 18050004, on left bank 500 ft east of Hayward City Hall, 700 ft upstream from mouth, and 700 ft downstream from small leftbank tributary.

DRAINAGE AREA.--5.51 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1971 to current year (seasonal records only, water years 1975-77).

GAGE.--Water-stage recorder. Elevation of gage is 100 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 25 to Jan. 24, and Sept. 5-27. Records fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--11 years (water years 1972-74, 1978-85), 4.63 ft^3/s, 3,350 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,350 ft^3/s, Jan. 23, 1983, gage height, 8.51 ft, from rating curve extended above 61 ft^3/s on basis of slope-area measurements at gage height 3.92 ft, and step backwater computation to gage height 10.40 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct. 16	1545	500	5.23	Feb. 8	0815	*528	*5.37
Nov. 27	1700	518	5.32				

Minimum daily, 0.17 ft^3/s, Oct. 2, 6-8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.26	.35	1.2	.66	1.5	.57	.91	.43	.26	.44	.42	.25
2	.17	4.6	11	.65	.70	.57	.88	.38	2.3	.42	.46	.37
3	.20	.57	3.0	.64	.49	.56	.86	.40	.43	.42	.42	.35
4	.20	.37	2.3	.64	.48	1.8	.86	.40	.47	.43	.40	.25
5	.19	.37	3.7	.63	.48	19	.74	.42	.37	.39	.36	.24
6	.17	6.8	1.4	.62	.48	20	.75	.41	.38	.37	.36	.24
7	.17	39	1.1	3.2	17	6.9	.64	.36	.38	.40	.40	.24
8	.17	24	1.1	.72	95	1.2	.64	.35	.44	.41	.41	.68
9	.18	1.1	1.3	.71	3.5	.98	.64	.37	.41	.38	.45	.30
10	25	16	17	.61	1.7	15	.62	.39	.39	.39	.36	.24
11	13	2.6	1.7	.59	1.4	1.8	.59	.34	.40	.46	.34	.24
12	.40	42	1.2	.58	1.2	1.1	.57	.36	.36	.41	.32	.23
13	.35	36	.84	.57	1.1	1.1	.58	.38	.37	.44	.32	.23
14	.32	1.9	.87	.56	.94	.91	.60	.35	.38	.46	.31	.23
15	.29	4.0	33	.56	.96	.80	.56	.37	.41	.43	.33	.22
16	72	13	7.0	.55	.83	.76	.55	.37	.43	.41	.33	.22
17	1.3	12	2.4	.54	.78	2.4	.72	.33	.41	.43	.31	.22
18	.57	5.6	1.6	.53	.78	4.5	.60	.31	.36	.41	.29	.21
19	.49	1.3	1.2	.53	.72	.82	.60	.34	.48	.40	.29	.21
20	.43	4.0	.91	.52	.70	.76	.49	.39	1.4	.68	.30	.21
21	.41	1.2	.81	.51	.68	.84	.57	.32	.44	.44	.30	.21
22	.39	.93	.75	.50	.71	.72	.47	.35	.39	.43	.38	.20
23	.36	1.4	.71	.49	.65	.68	.45	.34	.38	.40	.33	.20
24	.34	18	.69	.48	.63	.65	.79	.33	.46	.43	.37	.24
25	.34	1.6	.68	.48	1.5	.64	.88	.35	.37	.44	.51	.22
26	.34	1.1	.88	1.1	.62	48	.48	.35	.39	.48	.35	.21
27	.34	61	.70	.52	.58	6.3	.46	.32	.40	.45	.35	.20
28	.67	5.9	.66	3.3	.59	2.8	.44	.32	.40	.43	.31	.26
29	8.5	1.5	.72	.56	---	1.3	.43	.31	.38	.39	.26	.22
30	.44	1.4	.68	.52	---	1.0	.42	.34	.38	.40	.33	.21
31	.37	---	.67	.48	---	.94	---	.31	---	.65	.26	---
TOTAL	128.36	309.59	101.77	23.55	136.70	145.40	18.79	11.09	14.82	13.52	10.93	7.55
MEAN	4.14	10.3	3.28	.76	4.88	4.69	.63	.36	.49	.44	.35	.25
MAX	72	61	33	3.3	95	48	.91	.43	2.3	.68	.51	.68
MIN	.17	.35	.66	.48	.48	.56	.42	.31	.26	.37	.26	.20
AC-FT	255	614	202	47	271	288	37	22	29	27	22	15

CAL YR 1984	TOTAL	1039.01	MEAN	2.84	MAX	114	MIN	.15	AC-FT	2060
WTR YR 1985	TOTAL	922.07	MEAN	2.53	MAX	95	MIN	.17	AC-FT	1830

11181008 CASTRO VALLEY CREEK AT HAYWARD, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1972-73, 1975-77, 1980 to current year.
SEDIMENT RECORDS: Water years 1972, 1973, (partial-record station).

INSTRUMENTATION.--Water-quality sampler since March 1980.

REMARKS.--Samples are collected by Alameda County Flood Control and Water Conservation District, and are composites of samples collected from 6:00 A.M. to 12:00 Noon.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	SOLIDS, VOLA-TILE, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)
OCT 29-29	300	6.5	120	223	367	37	1.30	0.11	2.8	2.9
NOV 05-05	365	7.5	110	93	332	22	1.40	0.23	1.6	1.8
NOV 06-06	154	7.4	--	--	159	--	--	--	--	--
NOV 08-08	165	7.2	110	357	527	38	1.70	0.09	2.4	2.5
NOV 13-13	222	7.6	86	265	556	25	1.70	0.08	2.4	2.5
NOV 16-16	341	7.7	85	396	643	36	3.10	0.11	2.8	2.9
NOV 17-17	294	8.1	76	205	482	24	2.00	0.08	1.3	1.4
NOV 24-24	291	7.5	70	140	456	14	1.40	0.04	1.4	1.4
NOV 27-27	301	7.6	79	472	806	66	2.90	0.08	2.3	2.4
DEC 02-02	339	7.5	34	45	246	29	1.80	0.03	1.9	1.9
DEC 10-10	295	7.1	140	--	255	51	1.30	0.11	2.1	2.2
DEC 15-15	324	7.7	89	208	452	48	1.90	0.08	1.8	1.9
FEB 08-08	246	7.5	72	680	1050	64	2.30	0.12	3.8	3.9
MAR 05-05	228	7.5	110	304	379	56	1.10	0.17	2.4	2.6
MAR 10-10	204	7.6	170	189	375	23	0.80	0.13	1.9	2.0

11181008 CASTRO VALLEY CREEK AT HAYWARD, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)
OCT 29-29	4.2	0.53	0.11	2	<1	4	25	0.9	60
NOV 05-05	3.2	0.33	0.13	1	<2	10	140	0.1	120
NOV 06-06	--	--	--	--	--	--	100	--	180
NOV 08-08	4.2	0.60	0.14	5	<1	45	370	0.7	360
NOV 13-13	4.2	0.56	0.16	4	<1	36	200	0.7	210
NOV 16-16	6.0	0.57	0.18	5	<1	37	150	0.5	190
NOV 17-17	3.4	0.33	0.16	2	<1	30	150	0.6	150
NOV 24-24	2.8	0.32	0.15	2	<1	33	67	0.6	110
NOV 27-27	5.3	0.67	0.28	3	<1	140	100	0.4	180
DEC 02-02	3.7	0.22	0.14	2	<1	480	18	0.2	50
DEC 10-10	3.5	0.42	0.11	3	<1	180	120	0.5	210
DEC 15-15	3.8	0.43	0.20	3	<1	--	95	0.5	160
FEB 08-08	6.2	0.74	0.21	5	<1	43	110	0.5	370
MAR 05-05	3.7	0.36	0.13	2	2	25	120	0.7	180
MAR 10-10	2.8	0.34	0.12	1	5	21	120	--	210

< Actual value is known to be less than the value shown.

11181390 WILDCAT CREEK AT VALE ROAD, AT RICHMOND, CA

LOCATION.--Lat 37°57'12", long 122°20'14", in San Pablo Grant, Contra Costa County, Hydrologic Unit 18050002, on left bank at upstream side of Vale Road bridge at Richmond, 3.6 mi upstream from mouth.

DRAINAGE AREA.--7.79 mi^2.

PERIOD OF RECORD.--October 1975 to current year.

REVISED RECORDS.--WDR CA-81-2: 1979-80(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 65.56 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Oct. 7, 8, and Dec. 4. Records good. Minor storage in Lake Anza and Jewel Lake 5 mi upstream. No diversion above station.

AVERAGE DISCHARGE.--10 years, 5.61 ft^3/s, 4,060 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,050 ft^3/s, Jan. 4, 1982, gage-height, 14.68 ft recorded by gage, 15.80 ft, from floodmarks; no flow Aug. 31, Sept. 6, 7, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft^3/s and minimum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 8	0645	*327	*4.82				

Minimum daily, 0.02 ft^3/s, Sept. 9-11, 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.07	.05	2.0	.51	.39	.75	2.3	.30	.05	.21	.26	.08
2	.08	.30	3.6	.46	.42	.93	2.3	.23	.13	.23	.17	.18
3	.07	.25	4.4	.49	.42	.78	2.3	.26	.11	.21	.17	.12
4	.07	.20	3.0	.55	.41	.93	2.1	.30	.09	.22	.14	.09
5	.06	.09	2.1	.61	.38	3.9	1.6	.14	.33	.22	.08	.10
6	.08	1.1	1.9	.56	.38	12	1.5	.11	.09	.31	.11	.13
7	.08	1.5	1.6	1.8	4.8	13	1.5	.13	.04	.31	.11	.07
8	.07	1.8	1.5	.94	116	2.5	1.5	.23	.11	.32	.13	.32
9	.07	.48	2.3	.65	11	1.9	1.5	.23	.04	.31	.13	.02
10	1.4	1.4	15	.57	5.4	4.6	1.4	.23	.03	.31	.15	.02
11	.15	2.3	28	.51	4.0	2.5	1.3	.18	.04	.28	.13	.02
12	.04	6.2	12	.51	3.2	1.7	1.2	.19	.04	.25	.05	.03
13	.05	21	11	.49	12	1.5	1.2	.15	.04	.30	.05	.03
14	.04	2.2	11	.44	33	1.5	1.0	.17	.03	.42	.04	.03
15	.06	2.6	21	.42	17	1.3	.79	.23	.05	.37	.05	.03
16	2.2	10	12	.42	1.8	1.2	.77	.20	.09	.37	.05	.03
17	.78	3.6	7.3	.42	1.4	1.0	.77	.17	.07	.40	.06	.03
18	.19	2.4	1.2	.38	1.3	1.6	.82	.27	.05	.33	.05	.03
19	.10	1.6	.96	.38	1.3	1.2	.85	.31	.05	.30	.07	.03
20	.06	1.4	.90	.38	1.2	1.2	.77	.20	.04	.37	.07	.03
21	.06	1.2	.82	.38	1.2	1.1	.95	.11	.04	.31	.06	.02
22	.06	1.0	.83	.35	.98	.97	.97	.22	.07	.24	.07	.03
23	.06	1.3	.86	.33	.92	.92	.83	.10	.10	.26	.07	.03
24	.06	8.7	.86	.32	.80	1.1	.67	.16	.05	.28	.11	.03
25	.06	2.3	.86	.38	.77	.93	.50	.17	.05	.35	.08	.05
26	.05	1.4	1.2	.38	.77	39	.42	.15	.07	.35	.09	.07
27	.06	14	.79	.38	.77	18	.48	.14	.11	.28	.12	.04
28	.06	13	.53	.97	.77	9.2	.42	.14	.15	.24	.10	.05
29	.05	3.6	.54	.52	---	4.4	.42	.19	.22	.18	.04	.04
30	.05	2.4	.56	.40	---	3.6	.42	.16	.24	.28	.05	.03
31	.05	---	.56	.38	---	2.8	---	.11	---	.23	.05	---
TOTAL	6.34	109.37	151.17	16.28	222.78	138.01	33.55	5.88	2.62	9.04	2.91	1.81
MEAN	.20	3.65	4.88	.53	7.96	4.45	1.12	.19	.087	.29	.094	.060
MAX	2.2	21	28	1.8	116	39	2.3	.31	.33	.42	.26	.32
MIN	.04	.05	.53	.32	.38	.75	.42	.10	.03	.18	.04	.02
AC-FT	13	217	300	32	442	274	67	12	5.2	18	5.8	3.6

CAL YR 1984	TOTAL	778.55	MEAN	2.13	MAX	28	MIN	.04	AC-FT	1540
WTR YR 1985	TOTAL	699.76	MEAN	1.92	MAX	116	MIN	.02	AC-FT	1390

11182030 RHEEM CREEK AT SAN PABLO, CA

LOCATION.--Lat 37°58'38", long 122°21'10", in San Pablo Grant, Contra Costa County, Hydrologic Unit 18050002, on left bank 50 ft downstream from Santa Fe Railway bridge at San Pablo, and 0.7 mi upstream from mouth.

DRAINAGE AREA.--1.49 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is 13.63 ft above National Geodetic Vertical datum of 1929 (levels by Corps of Engineers). Prior to Aug. 13, 1965, at site 0.2 mi upstream at datum 7.74 ft higher.

REMARKS.--No estimated daily discharges. Records good. Low flow affected by return flow from industrial waste, leakage, and infrequent releases from off-stream North Reservoir.

AVERAGE DISCHARGE.--24 years (water years 1962-85), 1.53 ft^3/s, 1,110 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 477 ft^3/s, Dec. 20, 1969, gage height, 6.95 ft, from rating curve extended above 150 ft^3/s; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 180 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 13	0430	*319	*6.21	Nov. 16	1345	239	5.43

Minimum, no flow several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	.26	.09	.16	.10	.22	.10	.14	.08	.07	.07
2	0	4.4	9.7	.08	.17	.17	.20	.08	.29	.09	.08	.08
3	0	.11	1.2	.08	.05	.07	.20	.10	.05	.08	.04	.03
4	0	.02	.42	.08	.04	.26	.19	.14	.06	.34	.19	.05
5	0	0	1.2	.08	.04	10	.18	.14	.10	.04	.07	.04
6	0	7.6	.28	.08	.04	27	.18	.06	.10	.17	.07	.04
7	0	8.3	.21	12	21	5.2	.14	.08	.11	.20	.02	.04
8	0	.88	.18	.46	42	.56	.14	.09	.12	.06	.13	3.4
9	0	.04	.86	.68	1.1	.31	.14	.13	.12	.22	.05	.24
10	8.5	13	12	.22	.43	9.9	.12	.21	.12	.05	.10	.06
11	3.0	14	.47	.16	.27	1.5	.11	.16	.10	.04	.15	.03
12	.02	29	.31	.15	.20	.38	.12	.19	.09	.05	.04	.08
13	.01	28	.21	.13	.17	.27	.18	.12	.07	.11	.02	.07
14	.01	.46	.18	.12	.14	.24	.18	.11	.05	.14	.06	.06
15	0	15	14	.11	.36	.20	.16	.15	.17	.14	.06	.06
16	14	27	.68	.10	.14	.20	.10	.10	.07	.05	.11	.03
17	.19	3.8	.35	.21	.13	.12	.10	.11	.08	.04	.14	.05
18	.02	1.4	.27	.10	.11	2.0	.11	.23	.07	.05	.11	.06
19	.02	.38	.21	.09	.10	.19	.13	.14	.11	.18	.03	.02
20	.01	.49	.18	.09	.09	.17	.10	.14	.18	.08	.02	.04
21	.01	.17	.13	.08	.08	.09	.23	.15	.07	.08	.05	.06
22	.01	.15	.11	.08	.08	.10	.11	.17	.12	.03	.08	.10
23	0	1.5	.12	.08	.11	.12	.11	.12	.12	.09	.03	.04
24	0	18	.11	.08	.11	.44	.12	.21	.18	.08	.02	.09
25	0	.46	.11	.08	.08	.13	.14	.22	.03	.09	.15	.07
26	0	.28	2.7	.08	.09	38	.16	.10	.04	.15	.15	.04
27	0	19	.20	.08	.09	7.7	.09	.09	.04	.30	.02	.09
28	0	2.0	.15	3.5	.08	1.6	.08	.10	.03	.29	.01	.09
29	.15	.45	.19	.10	---	.51	.10	.09	.04	.19	.02	.02
30	.02	.35	.19	.06	---	.31	.09	.09	.06	.05	.12	.02
31	.01	---	.16	.06	---	.25	---	.11	---	.03	.05	---
TOTAL	25.98	196.24	47.34	19.39	67.46	108.09	4.23	4.03	2.93	3.59	2.26	5.17
MEAN	.84	6.54	1.53	.63	2.41	3.49	.14	.13	.098	.12	.073	.17
MAX	14	29	14	12	42	38	.23	.23	.29	.34	.19	3.4
MIN	0	0	.11	.06	.04	.07	.08	.06	.03	.03	.01	.02
AC-FT	52	389	94	38	134	214	8.4	8.0	5.8	7.1	4.5	10

CAL YR 1984 TOTAL 380.38 MEAN 1.04 MAX 29 MIN 0 AC-FT 754
WTR YR 1985 TOTAL 486.71 MEAN 1.33 MAX 42 MIN 0 AC-FT 965

11182500 SAN RAMON CREEK AT SAN RAMON, CA

LOCATION.--Lat 37°46'23", long 121°59'37", in sec.8, T.2 S., R.1 W., Contra Costa County, Hydrologic Unit 18050001, on right bank 0.2 mi downstream from Bollinger Creek, and 1.0 mi southwest of San Ramon.

DRAINAGE AREA.--5.89 mi^2.

PERIOD OF RECORD.--October 1952 to current year.

REVISED RECORDS.--WSP 1445: 1953-54(P).

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 530 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. No regulation or diversion above station.

AVERAGE DISCHARGE.--33 years, 3.31 ft^3/s, 2,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,600 ft^3/s, Oct. 13, 1962, gage height, 16.98 ft, from rating curve extended above 200 ft^3/s on basis of culvert computations at gage heights 14.20 ft, 16.98 ft, 12.09 ft, and 11.80 ft; no flow for parts of most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 8	0745	*382	*4.88	Mar. 26	1745	225	3.89

Minimum daily, 0.01 ft^3/s, many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.22	1.3	.99	.88	1.6	3.1	1.0	.46	.14	.06	.01
2	.05	.78	2.0	.98	.93	1.7	2.9	1.0	.55	.10	.04	.01
3	.06	.69	3.0	.98	.88	1.6	2.7	1.0	.47	.08	.03	.01
4	.09	.28	1.5	.98	.84	1.9	2.5	.95	.48	.06	.02	.01
5	.10	.24	1.7	.98	.79	3.1	2.4	.91	.44	.04	.02	.01
6	.11	.53	1.5	.98	.79	5.6	2.3	.86	.40	.05	.02	.01
7	.07	.85	1.3	1.3	7.0	8.4	2.3	.82	.40	.05	.03	.01
8	.06	3.4	1.2	1.0	121	3.1	2.2	.74	.39	.05	.03	.01
9	.08	.51	1.1	1.3	11	2.5	2.1	.75	.35	.04	.03	.01
10	.11	.76	2.9	1.1	5.7	6.9	1.9	.74	.31	.04	.02	.01
11	1.1	1.3	1.6	.98	4.3	3.7	1.8	.73	.28	.05	.02	.01
12	.21	.93	1.3	.98	3.7	2.9	1.8	.72	.26	.08	.02	.01
13	.17	6.7	1.2	.97	3.3	2.6	1.7	.66	.26	.12	.02	.01
14	.15	.81	1.1	.95	2.9	2.4	1.7	.61	.26	.04	.02	.01
15	.10	.64	4.6	.98	2.7	2.2	1.6	.57	.23	.02	.02	.01
16	1.9	3.0	2.7	.90	2.6	2.1	1.6	.54	.22	.01	.02	.01
17	.67	1.1	1.7	.88	2.4	2.1	1.6	.57	.21	.01	.02	.01
18	.27	1.2	1.5	.88	2.2	2.2	1.6	.59	.24	.01	.01	.01
19	.25	.65	1.4	.88	2.1	2.0	1.5	.57	.29	.01	.01	.01
20	.22	.60	1.3	.88	2.1	2.0	1.4	.54	.39	.01	.01	.01
21	.21	.60	1.2	.88	2.0	1.8	1.5	.52	.28	.02	.01	.01
22	.21	.49	1.2	.88	1.9	1.8	1.4	.48	.22	.03	.01	.01
23	.19	.49	1.2	.88	1.8	1.7	1.3	.51	.22	.02	.01	.01
24	.18	3.1	1.2	.88	1.8	1.7	1.2	.52	.21	.01	.01	.01
25	.18	1.1	1.1	.88	1.8	1.7	1.2	.52	.20	.01	.01	.01
26	.22	.71	1.4	.88	1.7	35	1.2	.54	.18	.01	.01	.01
27	.25	18	1.2	.88	1.6	11	1.2	.54	.16	.01	.01	.01
28	.24	7.2	1.1	1.2	1.6	6.2	1.1	.50	.13	.01	.01	.01
29	.36	2.5	1.1	.96	---	4.3	1.1	.47	.12	.01	.01	.01
30	.28	1.6	1.1	.88	---	3.7	1.1	.50	.16	.01	.01	.01
31	.23	---	1.1	.88	---	3.3	---	.46	---	.03	.01	---
TOTAL	8.34	60.98	48.8	29.95	192.31	132.8	53.0	20.43	8.77	1.18	0.58	0.30
MEAN	.27	2.03	1.57	.97	6.87	4.28	1.77	.66	.29	.038	.019	.010
MAX	1.9	18	4.6	1.3	121	35	3.1	1.0	.55	.14	.06	.01
MIN	.02	.22	1.1	.88	.79	1.6	1.1	.46	.12	.01	.01	.01
AC-FT	17	121	97	59	381	263	105	41	17	2.3	1.2	.6

CAL YR 1984 TOTAL 697.43 MEAN 1.91 MAX 31 MIN .01 AC-FT 1380
WTR YR 1985 TOTAL 557.44 MEAN 1.53 MAX 121 MIN .01 AC-FT 1110

11183000 SAN RAMON CREEK AT WALNUT CREEK, CA

LOCATION.--Lat 37°52'38", long 122°02'52", in San Ramon Grant, Contra Costa County, Hydrologic Unit 18050001, on left bank 600 ft upstream from Rudgear Road, near south city limits of town of Walnut Creek.

DRAINAGE AREA.--47.9 mi^2.

PERIOD OF RECORD.--October 1952 to current year.

REVISED RECORDS.--WSP 1395: 1953(M). WDR CA-79-2: 1978. WDR CA-84-2: 1974-75 (P), 1978-80 (P).

GAGE.--Water-stage recorder. Concrete control since Dec. 4, 1962. Datum of gage is 169.98 ft, above National Geodetic Vertical Datum of 1929. Prior to Dec. 8, 1971, at site 0.6 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. No regulation; pumping for irrigation above station during periods of low flow.

AVERAGE DISCHARGE.--33 years, 20.0 ft^3/s, 14,490 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,980 ft^3/s, Jan. 31, 1963, gage height, 14.40 ft, site and datum then in use, from rating curve extended above 2,200 ft^3/s on basis of computed discharge at gage height 13.16 ft; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 8	0845	*1,820	*6.22	Mar. 26	1900	1,000	4.57

Minimum daily, 2.7 ft^3/s, Aug. 29, 30, Sept. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	6.1	11	5.9	5.4	8.8	14	8.4	4.6	5.5	5.4	2.8
2	4.2	23	37	6.8	8.4	9.9	14	8.4	8.5	5.2	5.2	2.7
3	4.4	17	30	5.9	7.3	7.1	15	8.5	5.4	5.0	4.8	3.3
4	4.4	5.3	11	7.6	6.1	19	14	8.9	6.0	5.0	4.7	3.6
5	4.4	4.7	20	8.3	6.0	40	13	9.5	5.4	4.9	4.1	3.7
6	5.6	16	11	8.6	6.1	83	11	11	4.6	4.6	3.8	4.0
7	6.0	21	10	17	40	91	10	9.6	4.3	4.0	4.0	4.5
8	4.4	131	8.8	12	726	15	9.8	9.9	4.2	4.2	4.0	7.7
9	4.1	12	9.7	30	24	12	9.5	10	4.5	4.5	4.0	14
10	6.5	22	49	16	13	88	9.5	11	4.1	5.0	4.2	4.6
11	61	35	13	8.9	11	30	8.9	10	4.0	4.7	4.0	3.1
12	6.6	28	9.7	7.6	12	19	8.7	11	4.0	4.5	3.6	3.5
13	5.6	162	5.9	7.4	12	14	8.5	11	4.0	4.9	5.3	4.0
14	5.0	14	5.3	7.7	15	13	8.5	9.5	4.1	5.0	5.0	3.6
15	4.5	13	33	7.8	15	15	8.5	9.3	5.8	4.9	4.0	3.1
16	57	70	8.4	7.2	12	13	8.6	9.4	5.0	6.3	3.8	4.2
17	20	16	7.8	6.8	12	15	13	9.2	4.5	6.8	3.6	4.3
18	6.2	20	11	7.3	12	23	8.3	9.5	4.9	5.2	3.6	3.7
19	5.6	8.8	9.3	6.8	12	12	7.9	9.4	4.7	4.9	3.4	4.1
20	5.1	8.7	7.7	6.5	10	11	7.6	8.6	6.0	4.6	3.4	3.5
21	4.8	7.3	6.5	6.5	10	10	8.8	8.2	4.8	4.6	3.4	3.5
22	4.8	6.6	6.1	6.5	11	9.5	8.4	7.3	4.7	4.6	3.4	3.6
23	4.7	6.4	6.7	6.5	11	9.8	8.0	6.7	4.6	4.8	3.0	3.8
24	4.5	62	7.8	6.5	12	9.8	7.9	6.5	5.0	4.8	3.0	3.7
25	4.6	8.8	7.9	6.7	12	8.9	8.2	6.0	5.6	4.8	3.1	3.8
26	5.7	5.9	16	7.4	9.3	215	8.4	6.1	7.3	4.8	3.2	3.4
27	5.3	201	9.8	6.6	9.2	84	8.0	5.6	7.3	4.8	3.1	3.5
28	5.1	75	7.7	22	9.1	42	7.6	5.6	5.2	4.6	2.9	3.4
29	6.6	13	7.6	9.0	---	21	8.1	5.7	5.0	4.3	2.7	3.6
30	6.8	12	7.6	4.8	---	17	8.3	4.8	4.8	4.5	2.7	3.6
31	6.0	---	6.5	5.0	---	15	---	4.7	---	4.8	2.9	---
TOTAL	283.4	1031.6	398.8	279.6	1048.9	980.8	290.0	259.3	152.9	151.1	117.3	123.9
MEAN	9.14	34.4	12.9	9.02	37.5	31.6	9.67	8.36	5.10	4.87	3.78	4.13
MAX	61	201	49	30	726	215	15	11	8.5	6.8	5.4	14
MIN	3.9	4.7	5.3	4.8	5.4	7.1	7.6	4.7	4.0	4.0	2.7	2.7
AC-FT	562	2050	791	555	2080	1950	575	514	303	300	233	246

CAL YR 1984 TOTAL 5990.3 MEAN 16.4 MAX 201 MIN 3.4 AC-FT 11880
WTR YR 1985 TOTAL 5117.6 MEAN 14.0 MAX 726 MIN 2.7 AC-FT 10150

11183600 WALNUT CREEK AT CONCORD, CA

LOCATION.--Lat 37°56'43", long 122°02'55", in Arroyo de las Nueces y Bolbones Grant, Contra Costa County, Hydrologic Unit 18050001, on right bank at southwest city limits of Concord, 0.2 mi upstream from Southern Pacific Railroad bridge, 3.8 mi downstream from confluence of San Ramon and Las Trampas Creeks, and 10 mi downstream from Lafayette Reservoir.

DRAINAGE AREA.--85.2 mi^2.

PERIOD OF RECORD.--October 1968 to current year.

REVISED RECORDS.--WDR CA-79-2: Drainage area. WDR CA-82-2: 1969(M), 1970(M), 1973(P), 1975(M), 1978(M), 1980(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 35.44 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Estimated daily discharges: Nov. 17-19, Feb. 12-28, and Mar. 20-25. Records good. Flow slightly regulated by Lafayette Reservoir, capacity, 4,240 acre-ft. Some small diversions for irrigation above station.

AVERAGE DISCHARGE.--17 years, 53.9 ft^3/s, 39,050 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,300 ft^3/s, Jan. 5, 1982, gage height, 19.1 ft from rating curve extended above 3,000 ft^3/s on basis of slope-area measurement of peak flow; minimum daily, 0.70 ft^3/s, Oct. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 27	1815	2,060	6.50	Mar. 26	1800	2,300	6.79
Feb. 8	0915	*6,250	*10.98				

Minimum daily, 8.3 ft^3/s, Sept. 24, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	36	34	19	20	20	34	17	16	13	13	9.0
2	22	67	91	24	23	22	33	16	31	13	18	12
3	13	44	82	27	24	20	28	16	36	13	11	13
4	11	23	38	28	18	43	26	17	31	13	11	9.5
5	9.5	24	56	33	16	79	26	17	26	13	11	9.7
6	10	63	37	30	16	185	25	18	17	12	14	10
7	13	77	32	63	107	176	24	16	16	11	9.9	11
8	12	182	30	37	2220	55	24	16	15	12	10	30
9	11	34	30	67	110	40	23	16	15	12	10	57
10	30	61	122	45	30	164	23	17	15	13	10	21
11	103	82	37	24	20	72	23	16	14	12	10	11
12	27	94	28	20	19	43	22	16	13	12	9.8	10
13	19	269	25	19	19	37	26	16	13	12	11	9.8
14	17	48	23	19	21	34	24	14	13	12	15	11
15	33	47	72	19	23	33	39	14	15	11	13	9.2
16	103	152	40	20	27	31	27	14	16	12	13	9.2
17	43	50	25	23	29	30	33	14	13	16	25	10
18	15	46	24	22	27	48	24	15	14	18	27	9.6
19	13	21	22	18	26	30	23	15	13	11	14	9.6
20	13	21	19	18	25	27	23	15	15	11	14	8.9
21	13	18	20	18	23	26	26	22	14	21	13	8.7
22	13	15	18	18	21	24	26	23	13	13	13	8.7
23	13	15	18	18	20	25	25	15	13	11	13	8.7
24	14	125	18	18	20	25	25	16	13	11	12	8.3
25	15	26	20	17	20	24	24	17	13	11	12	10
26	16	18	40	18	20	548	24	18	14	11	12	9.1
27	13	461	25	17	20	187	25	18	16	12	10	8.9
28	21	163	20	52	20	96	25	18	12	17	8.7	8.7
29	34	58	19	25	---	47	24	27	17	11	8.9	8.7
30	31	40	19	17	---	37	20	24	12	20	12	8.3
31	29	---	19	20	---	34	---	17	---	22	11	---
TOTAL	742.5	2380	1103	813	2984	2262	774	530	494	412	395.3	368.6
MEAN	24.0	79.3	35.6	26.2	107	73.0	25.8	17.1	16.5	13.3	12.8	12.3
MAX	103	461	122	67	2220	548	39	27	36	22	27	57
MIN	9.5	15	18	17	16	20	20	14	12	11	8.7	8.3
AC-FT	1470	4720	2190	1610	5920	4490	1540	1050	980	817	784	731

CAL YR 1984	TOTAL	12351.7	MEAN	33.7	MAX	461	MIN	8.1	AC-FT	24500
WTR YR 1985	TOTAL	13258.4	MEAN	36.3	MAX	2220	MIN	8.3	AC-FT	26300

11183700 LITTLE PINE CREEK NEAR ALAMO, CA

LOCATION.--Lat 37°53'06", long 121°58'36", in Arroyo de las Nueces y Bolbones Grant, Contra Costa County, Hydrologic Unit 18050001, on right bank 200 ft downstream from road ford, 1.2 mi upstream from mouth, and 3.8 mi northeast of Alamo.

DRAINAGE AREA.--1.22 mi^2.

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 520 ft above National Geodetic Vertical datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Jan. 13-25. Records good. No regulation or diversion above station.

AVERAGE DISCHARGE.--11 years, 0.36 ft^3/s, 261 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 138 ft^3/s, Jan. 4, 1982, gage height, 2.41 ft, from rating curve extended above 12 ft^3/s, on basis of critical depth computation; no flow for long periods in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 30 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Feb. 8	0845	*13	*1.54				

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.25	.07	.07	.07	.10					
2		0	.35	.07	.07	.09	.09					
3		0	.31	.07	.07	.07	.09					
4		0	.23	.07	.06	.10	.07					
5		0	.22	.07	.06	.20	.06					
6		0	.18	.07	.06	.38	.06					
7		0	.16	.09	.23	.42	.07					
8		0	.13	.07	4.7	.17	.06					
9		0	.13	.16	.85	.13	.05					
10		0	.48	.14	.42	.37	.05					
11		0	.23	.11	.31	.22	.05					
12		.02	.19	.11	.26	.16	.04					
13		1.2	.16	.11	.22	.14	.04					
14		.05	.13	.11	.19	.12	.03					
15		.03	.25	.10	.17	.11	.03					
16		.57	.18	.09	.17	.10	.04					
17		.15	.13	.09	.15	.10	.05					
18		.10	.14	.09	.13	.12	.04					
19		.06	.12	.09	.13	.10	.03					
20		.06	.11	.08	.12	.09	.03					
21		.05	.09	.07	.11	.08	.04					
22		.04	.09	.07	.10	.08	.03					
23		.05	.09	.07	.09	.08	.02					
24		.19	.09	.07	.09	.08	.02					
25		.07	.09	.07	.10	.08	.01					
26		.07	.12	.10	.09	.58	.01					
27		1.1	.10	.08	.08	.35	.01					
28		.88	.09	.13	.08	.28	0					
29		.44	.07	.09	---	.17	0					
30		.33	.07	.08	---	.14	0					
31		---	.07	.07	---	.12	---					
TOTAL	0	5.46	5.05	2.76	9.18	5.30	1.22	0	0	0	0	0
MEAN	0	.18	.16	.089	.33	.17	.041	0	0	0	0	0
MAX	0	1.2	.48	.16	4.7	.58	.10	0	0	0	0	0
MIN	0	0	.07	.07	.06	.07	0	0	0	0	0	0
AC-FT	0	11	10	5.5	18	11	2.4	0	0	0	0	0

CAL YR 1984	TOTAL	63.41	MEAN	.17	MAX	1.8	MIN	0	AC-FT 126
WTR YR 1985	TOTAL	28.97	MEAN	.07	MAX	4.7	MIN	0	AC-FT 57

11456000 NAPA RIVER NEAR ST. HELENA, CA

LOCATION.--Lat 38°29'52", long 122°25'37", in Carne Humana Grant, Napa County, Hydrologic Unit 18050002, on right bank 0.2 mi upstream from highway bridge, 1.3 mi northeast of Zinfandel, and 2.5 mi east of St. Helena.

DRAINAGE AREA.--81.4 mi^2.

PERIOD OF RECORD.--October 1929 to September 1932, October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1929: Drainage area. WDR CA-78-2: 1977(M).

GAGE.--Water-stage recorder. Datum of gage is 170.12 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 22, 1958, at datum 3.00 ft higher. Nov. 22, 1958 to July 22, 1976, at datum 2.00 ft higher.

REMARKS.--Estimated daily discharges: Oct. 4 to Nov. 20. Records good. Some regulation by Bell Canyon Reservoir since 1959, capacity, 2,530 acre-ft. Small diversions above station for irrigation of about 1,500 acres.

AVERAGE DISCHARGE.--49 years, 98.4 ft^3/s, 71,290 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft^3/s, Dec. 22, 1955, gage height, 18.17 ft, present datum; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,200 ft^3/s and maximum (*).

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 8	0745	*7,390	*14.08				

Minimum daily, 0.21 ft^3/s, Oct. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.69	1.9	102	35	23	37	108	20	8.4	2.0	.53	.44
2	.62	11	104	34	23	36	95	17	8.2	2.5	.67	.68
3	.68	19	137	33	23	33	83	18	9.3	2.0	1.1	.78
4	1.4	8.0	92	30	22	33	73	17	9.9	1.9	1.1	.79
5	2.2	4.8	78	30	19	37	68	15	8.8	1.2	.70	.85
6	3.8	21	66	30	18	58	64	15	8.1	.76	.68	.95
7	4.3	16	59	90	336	123	61	16	8.7	.71	.97	2.1
8	4.1	19	54	87	3230	70	58	16	7.9	.76	1.2	7.6
9	3.8	17	51	77	571	60	56	15	7.0	.48	1.2	9.2
10	4.9	26	132	79	321	101	53	15	6.0	.47	.77	5.1
11	21	80	116	67	226	115	50	15	6.4	.39	1.1	3.5
12	3.8	113	90	61	166	82	47	14	7.6	.30	1.4	1.8
13	1.1	345	76	57	137	71	45	14	7.6	.48	1.3	1.3
14	.32	84	70	55	115	64	42	13	6.5	.63	1.1	1.2
15	.21	104	82	51	98	56	40	13	4.0	.27	2.2	1.0
16	6.3	318	83	47	88	52	39	13	1.9	.45	1.9	.96
17	14	122	71	42	79	49	38	12	3.6	.80	1.8	.99
18	4.8	116	67	37	73	47	33	12	5.3	.73	1.4	.93
19	2.2	71	63	36	69	45	32	12	5.6	.77	.89	.71
20	1.5	59	58	35	73	42	31	11	6.3	.72	.72	.63
21	1.1	53	54	33	68	36	32	11	6.6	.47	.48	.61
22	1.1	46	51	31	59	33	31	10	6.4	.37	.68	.70
23	.87	43	50	30	55	31	29	10	6.5	.31	.65	.70
24	.68	265	46	27	53	36	27	10	6.3	.33	.47	.77
25	.66	125	43	26	52	28	26	10	6.0	.41	.68	.74
26	.72	81	58	26	49	395	25	10	5.0	.38	.79	.76
27	.80	549	54	26	46	504	23	10	3.9	.38	.99	.83
28	.81	651	47	29	41	354	23	10	3.7	.46	.97	.94
29	1.3	241	42	27	---	215	23	10	4.2	.49	.81	1.2
30	4.1	140	39	25	---	156	23	10	2.8	.59	.77	1.4
31	3.4	---	37	24	---	128	---	9.5	---	.60	.48	---
TOTAL	97.26	3749.7	2172	1317	6133	3127	1378	403.5	188.5	23.11	30.50	50.16
MEAN	3.14	125	70.1	42.5	219	101	45.9	13.0	6.28	.75	.98	1.67
MAX	21	651	137	90	3230	504	108	20	9.9	2.5	2.2	9.2
MIN	.21	1.9	37	24	18	28	23	9.5	1.9	.27	.47	.44
AC-FT	193	7440	4310	2610	12160	6200	2730	800	374	46	60	99

CAL YR 1984	TOTAL	16759.1	MEAN	45.8	MAX	651	MIN	.21	AC-FT	33240
WTR YR 1985	TOTAL	18669.73	MEAN	51.1	MAX	3230	MIN	.21	AC-FT	37030

11458000 NAPA RIVER NEAR NAPA, CA
(National stream-quality accounting network station)

LOCATION.--Lat 38°22'06", long 122°18'08", in Yajome Grant, Napa County, Hydrologic Unit 18050002, on left bank at downstream side of Oak Knoll Avenue bridge, 0.4 mi downstream from Dry Creek, 5 mi north of Napa, and 12.8 mi downstream from Conn Dam.

DRAINAGE AREA.--218 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1929 to September 1932, October 1959 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1315-B: 1930(M).

GAGE.--Water-stage recorder. Datum of gage is 24.74 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good. Flow slightly regulated by Bell Canyon Reservoir beginning in 1959, capacity, 2,530 acre-ft and Lake Hennessey beginning in December 1945, capacity, 31,000 acre-ft. Diversions for irrigation of about 10,000 acres above station.

AVERAGE DISCHARGE.--29 years, 210 ft^3/s, 152,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,900 ft^3/s, Jan. 4, 1982, gage height, 25.65 ft; maximum gage height, 27.59 ft, Jan. 31, 1963; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base discharge of 5,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 8	0945	*11,500	*19.68				

Minimum daily, 2.0 ft^3/s, July 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	8.6	184	59	37	75	217	48	18	9.1	3.9	3.5
2	3.3	9.4	158	57	40	73	185	45	18	5.7	3.9	3.3
3	3.4	14	254	57	41	70	166	44	19	5.1	3.9	3.5
4	3.4	16	167	54	43	71	152	43	18	4.1	3.9	3.5
5	3.4	11	137	54	41	72	136	42	14	5.2	4.1	3.5
6	3.2	11	113	53	40	91	126	40	14	5.7	3.7	3.5
7	2.9	18	99	91	242	222	119	39	13	6.1	3.3	3.8
8	3.2	15	88	160	7130	131	117	39	14	6.3	3.3	4.1
9	3.5	16	80	142	1550	101	110	38	14	5.2	3.1	4.7
10	4.4	17	167	161	794	136	101	34	15	2.1	3.2	6.3
11	7.1	87	160	122	537	169	95	33	13	2.6	3.1	6.7
12	10	104	125	107	395	123	90	36	11	4.0	3.3	6.3
13	7.7	664	105	97	314	113	89	33	13	2.8	3.3	5.3
14	6.2	180	94	90	261	102	86	32	12	2.0	3.2	5.3
15	5.0	84	96	84	219	90	82	30	9.3	2.8	3.0	4.7
16	6.6	578	113	81	193	80	79	26	8.7	2.8	3.0	4.7
17	8.0	243	94	77	172	80	76	28	9.7	2.4	3.2	4.7
18	11	188	91	71	154	80	73	28	9.8	2.9	3.7	4.3
19	9.0	116	85	67	139	78	68	29	7.4	3.4	3.8	4.1
20	8.1	83	81	63	136	75	66	27	7.1	4.0	3.8	3.8
21	7.4	71	75	59	131	70	68	25	7.9	4.4	3.4	3.8
22	7.1	58	72	54	117	64	67	22	8.6	4.3	3.3	3.8
23	6.9	47	71	51	106	63	62	19	8.8	4.5	3.6	3.8
24	6.2	389	69	46	100	65	59	21	8.6	3.9	3.5	3.8
25	6.2	222	64	42	97	58	57	21	12	2.7	3.5	3.8
26	6.0	116	73	40	94	648	54	23	9.1	2.9	3.6	3.6
27	5.6	673	82	39	88	1230	49	24	7.9	3.8	3.3	3.5
28	5.6	1720	70	39	80	745	50	23	7.1	3.6	3.4	3.6
29	6.5	530	64	41	---	431	50	18	7.5	3.6	3.6	3.8
30	7.4	276	62	37	---	319	49	17	9.5	4.3	3.7	3.8
31	9.0	---	61	36	---	259	---	15	---	4.4	3.7	---
TOTAL	186.6	6565.0	3254	2231	13291	5984	2798	942	345.0	126.7	108.3	126.9
MEAN	6.02	219	105	72.0	475	193	93.3	30.4	11.5	4.09	3.49	4.23
MAX	11	1720	254	161	7130	1230	217	48	19	9.1	4.1	6.7
MIN	2.9	8.6	61	36	37	58	49	15	7.1	2.0	3.0	3.3
AC-FT	370	13020	6450	4430	26360	11870	5550	1870	684	251	215	252

CAL YR 1984 TOTAL 35436.6 MEAN 96.8 MAX 1720 MIN 2.7 AC-FT 70290
WTR YR 1985 TOTAL 35958.5 MEAN 98.5 MAX 7130 MIN 2.0 AC-FT 71320

11458000 NAPA RIVER NEAR NAPA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971, 1973 to current year.
CHEMICAL ANALYSES: Water years 1973 to current year.
BIOLOGICAL DATA: Water years 1978-81.
SPECIFIC CONDUCTANCE: Water years 1978-81.
WATER TEMPERATURES: Water years 1977-81.
SEDIMENT RECORDS: Water years 1971, 1977 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: June 1978 to September 1981.
WATER TEMPERATURES: October 1976 to September 1981.
SEDIMENT RECORDS: October 1976 to September 1978.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 500 microsiemens, Sept. 1, 1981; minimum recorded, 81 microsiemens, Mar. 1, 1979.
WATER TEMPERATURES: Maximum recorded, 28.0°C, July 13, 1979; minimum recorded, 3.0°C, Dec. 31, 1978, Jan. 1, 1979.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
NOV												
20...	1100	85	284	7.9	12.0	760	6.0	10.4	97	160	190	100
JAN												
17...	1140	79	282	7.4	8.0	770	2.4	11.8	99	41	48	110
MAR												
20...	0950	75	299	7.4	13.0	770	2.9	10.6	100	K12	21	120
MAY												
22...	1000	21	365	7.7	18.0	765	2.7	8.7	92	49	33	150
JUL												
16...	1100	2.8	410	7.7	21.5	760	2.2	8.3	94	65	71	170
SEP												
18...	1130	4.1	413	8.1	16.5	755	.50	10.2	106	K8	32	190

DATE	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE IT-FLD (MG/L AS HCO3)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L - CACO3)	ALKA-LINITY FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
NOV												
20...	15	20	13	17	26	.7	2.4	--	--	89	26	15
JAN												
17...	14	21	15	18	25	.8	2.0	123	101	101	24	13
MAR												
20...	11	22	16	16	22	.6	2.2	134	110	110	24	12
MAY												
22...	5	26	21	19	21	.7	2.1	179	147	147	23	12
JUL												
16...	2	27	26	19	19	.6	2.3	210	172	173	30	14
SEP												
18...	7	29	28	21	19	.7	2.1	221	181	183	28	14

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
NOV												
20...	.30	33	184	180	.25	42	1.6	.070	.90	.130	.110	.110
JAN												
17...	.20	37	187	190	.25	40	1.8	.040	.30	.110	.110	.110
MAR												
20...	.20	35	187	190	.25	38	1.4	.030	.50	.130	.100	.090
MAY												
22...	.20	37	220	230	.30	12	.66	.080	.50	.070	.130	.070
JUL												
16...	.20	32	244	250	.33	1.8	.12	.040	.30	.070	.060	.040
SEP												
18...	.20	32	248	260	.34	2.7	<.10	.040	.30	.030	.020	.020

See footnotes at end of table.

11458000 NAPA RIVER NEAR NAPA, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
NOV											
20...	1100	60	1	55	<.5	<1	4	<3	3	60	5
JAN											
17...	1140	80	2	53	<.5	<1	--	<3	<1	26	5
MAY											
22...	1000	<10	1	66	<.5	<1	<1	<3	2	13	5
SEP											
18...	1130	<10	2	75	<.5	<1	<1	<3	2	<3	1

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
NOV										
20...	37	12	<.1	<10	4	<1	<1	140	<6	32
JAN										
17...	32	9	<.1	<10	6	<1	<1	130	<6	<3
MAY										
22...	32	9	<.1	<10	<1	<1	<1	170	<6	12
SEP										
18...	30	8	<.1	<10	<1	<1	<1	200	<6	5

K Results based on colony count outside the acceptable range (non-ideal colony count).
< Actual value is known to be less than the value shown.

CROSS-SECTIONAL DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
MAR						
20...	0930	2.5	236	7.4	13.0	10.7
20...	0935	7.5	236	7.4	13.0	10.6
20...	0940	12.5	236	7.4	13.0	10.6
20...	0945	17.5	236	7.4	13.0	10.6
20...	0950	22.5	236	7.4	13.0	10.6
20...	0955	27.5	236	7.4	13.0	10.6
20...	1000	32.5	236	7.4	13.0	10.6
20...	1005	37.5	236	7.4	13.0	10.6
SEP						
18...	1115	0.5	412	8.1	16.5	9.9
18...	1120	1.5	412	8.1	16.5	10.1
18...	1125	2.0	413	8.2	16.5	10.3
18...	1130	4.0	413	8.2	16.5	10.3
18...	1135	5.0	414	8.1	16.5	10.3
18...	1140	6.0	414	8.1	16.5	10.3
18...	1145	6.5	415	8.1	16.5	10.1

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV						
20...	1050	83	12.0	12	2.7	93
JAN						
17...	1110	77	8.0	5	1.0	--
MAR						
20...	0955	75	13.0	9	1.8	--
MAY						
22...	1010	21	18.0	9	0.51	--
JUL						
16...	1045	2.8	21.5	10	0.08	--
SEP						
18...	1140	4.4	16.5	5	0.06	--

11459500 NOVATO CREEK AT NOVATO, CA

LOCATION.--Lat 38°06'28", long 122°34'44", in Novato Grant, Marin County, Hydrologic Unit 18050002, on left bank in Novato, 100 ft upstream from 7th Street Bridge, and 3.9 downstream of Novato Creek Dam.

DRAINAGE AREA.--17.6 mi^2.

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. Datum of gage is 14.76 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 23, 1967, at site 0.6 mi upstream at different datum.

REMARKS.--Estimated daily discharges: Feb. 11 -22. Records good. Flow regulated by Stafford Lake beginning Dec. 1, 1951, capacity, 4,500 acre-ft since Oct. 18, 1954; contents, zero acre-ft Sept. 30, 1984, and 650 acre-ft Sept. 30, 1985. Diversion from Stafford Lake for municipal water supply began Apr. 25, 1952, and amounted to 1,256 acre-ft for the current year. No diversion from Russian River into Stafford Lake during current year.

COOPERATION.--Record of diversions were provided by North Marin County Water District.

AVERAGE DISCHARGE (adjusted for diversions).--39 years, 14.6 ft^3/s, 10,580 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,000 ft^3/s, Jan. 4, 1982, gage height, 14.46 ft; no flow many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 424 ft^3/s, Feb. 8, gage height, 6.11 ft; minimum daily, 0.17 ft^3/s, Oct. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.27	.55	6.6	3.0	1.9	2.0	3.2	1.4	.78	1.1	.30	.36
2	.24	2.8	13	3.0	1.6	2.2	3.1	1.2	.81	.38	.31	.45
3	.35	.96	10	2.9	1.5	1.9	3.2	1.2	.79	.33	.28	.56
4	.53	.59	6.8	3.0	1.5	1.9	3.2	1.2	.81	.31	.30	.52
5	.43	.55	7.4	3.1	1.4	4.3	3.0	1.2	.79	.37	.26	.56
6	.40	3.9	5.6	3.1	1.4	16	2.7	1.3	.78	.35	.29	.75
7	.29	6.1	4.9	27	20	8.2	2.5	1.2	.78	.33	.32	.51
8	.18	6.9	4.4	6.0	139	2.8	2.4	1.3	.74	.35	.32	1.8
9	.25	1.3	4.4	10	22	2.3	2.3	1.3	.69	.31	.31	.44
10	8.4	22	30	6.1	13	16	2.2	2.3	.68	.30	.31	.32
11	3.8	26	8.1	4.6	10	8.9	1.9	1.4	.71	.33	.27	.37
12	.60	39	6.3	4.0	8.9	3.8	1.8	1.0	.68	.34	.31	.49
13	.39	40	5.4	3.6	7.6	3.2	1.8	1.0	.61	.34	.31	.51
14	.25	3.1	5.0	3.4	6.6	3.0	1.7	1.0	.62	.32	.26	.49
15	.17	23	7.6	3.3	5.8	2.7	1.7	.98	.61	.33	.35	.66
16	25	57	4.7	3.1	5.3	2.4	1.6	1.0	.61	.34	.43	.59
17	3.1	11	4.1	2.9	4.8	2.4	1.6	1.0	.58	.35	.38	.68
18	1.0	9.4	4.9	2.7	4.4	3.8	1.4	1.0	.58	.32	.34	.57
19	.74	4.7	4.0	2.7	3.9	2.2	1.4	.97	.61	.34	.38	.72
20	.69	3.6	3.5	2.6	3.6	2.2	1.5	1.1	.70	.37	.36	.57
21	.53	2.9	3.2	2.5	3.1	2.0	2.7	1.1	.66	.43	.29	.54
22	.61	2.4	2.9	2.3	2.9	1.9	1.4	.84	.61	.27	.35	.37
23	.61	2.9	3.0	2.3	2.7	1.9	1.2	.85	.60	.27	.33	.31
24	.60	13	2.9	2.1	2.6	1.7	1.2	.83	.59	.26	.32	.40
25	.60	3.6	2.9	2.1	2.5	1.6	1.1	.71	.57	.27	.28	.29
26	.59	2.8	6.6	1.9	2.4	34	1.2	.78	.83	.27	.34	.36
27	.55	81	3.9	1.8	2.3	16	1.5	.76	1.1	.25	.36	.35
28	.75	26	3.5	2.4	2.1	8.2	1.4	.88	1.1	.24	.31	.38
29	.77	12	3.3	1.9	---	4.7	1.3	.84	1.1	.28	.35	.25
30	.72	9.0	3.1	1.7	---	4.0	1.3	.76	1.1	.32	.37	.23
31	.66	---	3.0	1.6	---	3.8	---	.75	---	.31	.39	---
TOTAL	54.07	418.05	185.0	122.7	284.8	172.0	58.5	33.15	22.22	10.68	10.08	15.40
MEAN	1.74	13.9	5.97	3.96	10.2	5.55	1.95	1.07	.74	.34	.33	.51
MAX	25	81	30	27	139	34	3.2	2.3	1.1	1.1	.43	1.8
MIN	.17	.55	2.9	1.6	1.4	1.6	1.1	.71	.57	.24	.26	.23
AC-FT	107	829	367	243	565	341	116	66	44	21	20	31

CAL YR 1984	TOTAL	3017.38	MEAN	8.24	MAX	121	MIN	.17	AC-FT	5980
WTR YR 1985	TOTAL	1386.65	MEAN	3.80	MAX	139	MIN	.17	AC-FT	2750

11460000 CORTE MADERA CREEK AT ROSS, CA

LOCATION.--Lat 37°57'45", long 122°33'20", in Punta de Quentin Grant, Marin County, Hydrologic Unit 18050002, on left bank behind fire station at Ross, 1.7 mi southwest of San Rafael, 1.7 mi below Phoenix Lake, and 4 mi upstream from mouth.

DRAINAGE AREA.--18.1 mi^2.

PERIOD OF RECORD.--February 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 7.97 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--No estimated daily discharges. Records good. Flow slightly regulated by Phoenix Lake, capacity, 612 acre-ft. Diversion on tributary above station by Marin Municipal Water District.

AVERAGE DISCHARGE.--34 years, 29.1 ft^3/s, 21,080 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,200 ft^3/s, revised, Jan. 4, 1982, gage height, 19.81 ft; no flow at times.

EXTREMES FOR CURRENT YEAR..--Peak discharges greater than base discharge of 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 13	0400	1,100	10.88	Feb. 8	0600	*2,600	*15.11
Nov. 16	0515	1,050	10.70	Mar. 26	1700	1,150	11.04
Nov. 27	1630	1,140	11.00				

Minimum daily, 0.06 ft^3/s, Sept. 25, 26.

REVISIONS.--The maximum discharge for the water year 1982 has been revised to 7,200 ft^3/s, Jan. 2, 1982, gage height, 19.81 ft, superseding the figure published in the reports for 1982 through 1984.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.76	7.6	33	3.1	2.9	5.7	30	2.9	.84	.38	.49	.14
2	.83	32	53	2.4	3.1	5.4	22	2.7	1.5	.36	.30	.27
3	.99	4.0	56	2.0	2.2	4.3	16	2.7	.98	.34	.27	.44
4	1.2	1.7	41	1.6	1.9	3.9	13	2.6	1.2	.26	.21	.29
5	1.1	1.6	45	1.4	2.1	14	11	2.5	1.3	.27	.22	.23
6	1.1	28	33	1.2	1.8	37	11	2.4	1.1	.28	.28	.31
7	1.0	14	25	64	292	34	9.4	2.1	1.0	.41	.10	.47
8	.79	14	18	41	1070	20	9.0	2.1	1.1	.36	.10	3.4
9	.82	3.9	16	28	221	16	8.6	2.0	1.0	.24	.16	.80
10	16	38	74	20	127	61	7.9	1.8	.89	.14	.13	.23
11	8.9	109	34	17	90	70	7.4	1.7	.78	.85	.11	.19
12	.59	178	22	15	71	45	6.8	1.7	.72	.38	.12	.19
13	.28	407	15	13	59	45	6.4	1.5	.77	.28	.16	.15
14	.23	55	11	12	50	36	6.0	1.4	.62	.17	.13	.14
15	.15	121	33	11	44	29	5.4	1.4	.60	.28	.18	.10
16	33	415	18	9.1	39	18	5.3	1.2	.61	.51	.28	.09
17	3.1	122	13	7.7	34	15	5.2	1.3	.53	.41	.28	.15
18	.90	75	18	7.1	28	18	5.0	1.2	.48	.37	.26	.14
19	.93	44	11	6.5	20	12	4.8	1.1	.62	.33	.20	.11
20	.73	28	7.5	5.9	13	8.9	4.9	.98	.74	.34	.20	.11
21	.66	27	5.7	5.4	11	6.2	6.5	.86	.66	.45	.16	.11
22	.66	17	4.4	4.8	7.1	8.7	4.7	.81	.64	.33	.16	.07
23	.66	15	3.5	4.4	5.6	12	4.4	.71	.74	.39	.15	.07
24	.78	194	2.9	3.9	6.2	7.4	4.2	.71	.66	.31	.12	.08
25	1.9	75	2.5	3.8	8.0	4.0	4.0	.71	.68	.18	.08	.06
26	2.7	45	32	3.5	7.6	376	3.9	.91	.52	.19	.10	.06
27	4.0	296	13	3.3	6.9	203	3.7	1.2	.48	.18	.10	.07
28	4.5	160	8.1	5.2	6.1	123	3.5	1.1	.36	.23	.12	.07
29	5.7	87	5.8	3.4	---	82	3.3	.98	.34	.35	.17	.07
30	6.7	55	4.8	2.8	---	60	3.2	.85	.33	.64	.22	.08
31	7.0	---	4.1	2.4	---	43	---	.88	---	.56	.18	---
TOTAL	108.66	2669.8	663.3	311.9	2230.5	1423.5	236.5	47.00	22.79	10.77	5.74	8.69
MEAN	3.51	89.0	21.4	10.1	79.7	45.9	7.88	1.52	.76	.35	.19	.29
MAX	33	415	74	64	1070	376	30	2.9	1.5	.85	.49	3.4
MIN	.15	1.6	2.5	1.2	1.8	3.9	3.2	.71	.33	.14	.08	.06
AC-FT	216	5300	1320	619	4420	2820	469	93	45	21	11	17

CAL YR 1984 TOTAL 5551.90 MEAN 15.2 MAX 415 MIN .05 AC-FT 11010
WTR YR 1985 TOTAL 7739.15 MEAN 21.2 MAX 1070 MIN .06 AC-FT 15350

11460100 ARROYO CORTE MADERA DEL PRESIDIO AT MILL VALLEY, CA

LOCATION.--Lat 37°53'50", long 122°32'06", in Sausalito Grant, Marin County, Hydrologic Unit 18050002, on right bank near south boundary of town of Mill Valley, 1 mi upstream from mouth.

DRAINAGE AREA.--4.69 mi^2.

PERIOD OF RECORD.--October 1965 to September 1973, May 1975 to current year.

REVISED RECORDS.--WRD CA-82-2: 1978-81(P).

GAGE.--Water-stage recorder. Datum of gage is 1.85 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: June 21 to Sept. 30. Records good except for estimated daily discharges, which are poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--18 years, 7.62 ft^3/s, 5,520 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,180 ft^3/s, Jan. 21, 1970, from rating curve extended above 300 ft^3/s on basis of slope-area measurement of peak flow, maximum gage height, 8.11 ft, Jan. 4, 1982 (backwater); no flow for many days in 1968, 1975-79.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 220 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 13	0330	295	5.45	Feb. 8	0715	*654	*6.74
Nov. 16	0400	493	6.22	Mar. 26	1915	242	5.18

Minimum daily, 0.06 ft^3/s, Sept. 27-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.19	.44	8.5	3.0	2.2	2.5	8.9	1.6	.86	.31	.40	.12
2	.19	3.4	15	2.8	1.8	2.5	7.4	1.6	1.2	.31	.28	.19
3	.20	1.5	14	2.6	1.7	2.4	6.2	1.6	.91	.28	.24	.30
4	.26	.78	12	2.5	1.6	2.4	5.4	1.5	.83	.27	.19	.24
5	.22	.69	12	2.5	1.5	6.3	5.0	1.5	.75	.25	.21	.20
6	.21	4.7	8.3	2.5	1.7	12	4.7	1.5	.85	.28	.23	.26
7	.20	5.1	6.8	8.0	70	8.7	4.3	1.5	.77	.33	.20	.36
8	.21	3.7	5.9	4.2	310	5.6	4.2	1.4	.70	.29	.20	1.6
9	.24	1.6	5.6	3.7	60	4.4	3.9	1.4	.67	.27	.17	.96
10	2.9	27	14	3.4	26	13	3.4	1.3	.69	.23	.15	.56
11	1.1	30	8.2	3.0	17	14	3.3	1.3	.65	.45	.13	.41
12	.36	45	7.0	2.6	12	10	3.0	1.3	.68	.30	.16	.30
13	.33	99	6.1	2.4	9.8	8.1	2.8	1.2	.72	.20	.25	.23
14	.26	17	5.3	2.3	8.0	6.8	2.7	1.2	.72	.14	.22	.18
15	.07	31	13	2.2	6.8	5.6	2.6	1.1	.68	.27	.20	.15
16	16	155	9.1	2.1	6.0	5.0	2.5	1.1	.66	.40	.19	.21
17	1.6	47	8.3	2.0	5.2	4.7	2.5	1.2	.65	.37	.26	.28
18	.65	29	8.7	1.9	4.5	4.7	2.5	1.2	.63	.33	.22	.50
19	.56	17	7.3	1.8	4.3	3.7	2.4	1.2	.50	.30	.18	.25
20	.37	11	6.4	1.7	4.0	3.4	2.6	1.1	.51	.29	.18	.16
21	.36	8.1	5.7	1.7	3.6	2.9	4.6	1.0	.53	.37	.14	.14
22	.29	6.3	5.1	1.6	3.4	2.6	2.7	1.0	.49	.30	.14	.16
23	.25	6.7	4.7	1.6	3.2	2.5	2.5	1.0	.56	.35	.12	.13
24	.22	35	4.0	1.6	3.1	2.9	2.3	.95	.52	.22	.09	.16
25	.22	18	3.9	1.5	3.1	2.4	2.0	.97	.48	.19	.07	.08
26	.23	12	5.9	1.5	3.0	71	1.9	1.0	.43	.20	.09	.07
27	.23	28	4.3	1.4	2.8	71	1.8	1.1	.38	.19	.11	.06
28	.52	32	3.7	4.3	2.6	38	1.7	1.1	.33	.23	.13	.06
29	1.7	19	3.4	2.2	---	23	1.6	1.0	.30	.28	.14	.06
30	.55	13	3.2	1.9	---	15	1.7	.92	.29	.54	.16	.06
31	.47	---	3.1	1.8	---	11	---	.89	---	.54	.14	---
TOTAL	31.16	708.01	228.5	78.3	578.9	368.1	103.1	37.73	18.94	9.28	5.59	8.44
MEAN	1.01	23.6	7.37	2.53	20.7	11.9	3.44	1.22	.63	.30	.18	.28
MAX	16	155	15	8.0	310	71	8.9	1.6	1.2	.54	.40	1.6
MIN	.07	.44	3.1	1.4	1.5	2.4	1.6	.89	.29	.14	.07	.06
AC-FT	62	1400	453	155	1150	730	204	75	38	18	11	17

CAL YR 1984 TOTAL 1785.14 MEAN 4.88 MAX 155 MIN .07 AC-FT 3540
WTR YR 1985 TOTAL 2176.05 MEAN 5.96 MAX 310 MIN .06 AC-FT 4320

11460400 LAGUNITAS CREEK AT SAMUEL P. TAYLOR STATE PARK, CA

LOCATION.--Lat 38°01'37", long 122°44'07", Marin County, Hydrologic Unit 18050005, in Samuel P. Taylor State Park, on left bank 300 ft upstream of Deadmans Gulch, 0.9 mi downstream of park entrance, 2.1 mi northwest of Lagunitas, and 3.4 mi downstream of Kent Lake.

DRAINAGE AREA.--34.3 mi^2.

PERIOD OF RECORD.--December 1982 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 102.89 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Mar. 8-26. Records good above 5.0 ft^3/s, and fair below except for estimated daily discharges, which are fair. Flow regulated by Kent Lake, capacity 16,680 acre-ft, and Alpine Lake, capacity, 8,890 acre-ft, both of which divert water for domestic and industrial use in the county of Marin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,620 ft^3/s, Mar. 13, 1983, gage height, 7.65 ft; minimum daily, 3.9 ft^3/s, Oct. 9, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,810 ft^3/s, Feb. 8, gage height, 6.83 ft; minimum daily, 3.9 ft^3/s, Oct. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	4.5	30	17	14	16	23	15	8.2	7.0	4.3	4.7
2	4.0	24	35	16	14	16	20	15	8.1	6.9	4.3	4.9
3	4.1	16	40	15	14	16	17	14	7.8	7.1	4.2	4.8
4	4.1	11	30	15	14	16	15	14	7.7	6.9	4.1	4.9
5	4.1	13	29	15	16	17	15	14	8.0	6.9	4.3	4.9
6	4.1	16	25	14	16	32	16	14	7.5	6.9	4.3	4.9
7	4.3	8.5	22	46	167	39	15	14	7.4	6.8	4.3	5.3
8	4.0	11	20	30	789	19	15	14	7.5	6.9	4.3	6.2
9	3.9	8.2	18	22	140	18	16	14	7.2	7.0	4.2	5.7
10	4.6	20	40	19	68	37	16	14	7.2	6.9	4.1	5.4
11	6.9	89	28	17	44	72	16	14	7.5	7.1	4.1	5.3
12	4.6	115	24	17	34	47	16	13	7.6	7.0	4.2	5.2
13	4.4	259	21	16	28	24	16	13	7.6	7.0	4.3	5.2
14	4.4	42	19	15	23	18	16	12	7.7	6.9	4.3	5.2
15	4.3	66	30	14	21	17	16	11	7.5	6.7	4.4	5.1
16	8.6	259	28	14	21	16	16	9.6	7.4	6.7	5.1	5.1
17	7.0	91	24	14	20	16	16	9.7	7.3	6.7	5.1	5.0
18	5.1	57	24	15	18	15	16	9.7	7.3	6.5	5.1	5.1
19	4.9	35	23	15	17	15	15	9.6	7.4	6.3	5.1	5.1
20	4.7	26	19	15	17	14	15	9.2	7.4	4.7	5.1	5.2
21	4.6	22	18	14	17	14	15	8.6	7.3	4.6	5.2	5.5
22	4.5	20	18	14	16	14	16	8.6	7.4	4.5	4.7	5.5
23	4.5	18	18	15	16	14	15	8.5	7.3	4.4	4.6	5.5
24	4.5	187	17	15	15	14	17	8.4	7.1	4.3	4.6	5.5
25	4.4	64	16	14	15	15	20	8.4	7.1	4.3	4.6	5.5
26	4.3	38	30	13	16	268	19	8.4	7.1	4.3	4.6	5.5
27	4.4	233	25	13	16	160	15	8.2	7.0	4.3	4.6	5.5
28	4.5	134	22	14	16	86	15	8.3	7.0	4.3	4.6	5.6
29	4.8	62	20	13	---	51	15	8.1	7.0	4.3	4.6	5.8
30	4.7	40	18	14	---	36	15	8.1	7.1	4.4	4.6	5.6
31	4.7	---	18	14	---	28	---	8.2	---	4.4	4.5	---
TOTAL	146.1	1989.2	749	514	1622	1180	488	344.6	222.7	183.0	140.4	158.7
MEAN	4.71	66.3	24.2	16.6	57.9	38.1	16.3	11.1	7.42	5.90	4.53	5.29
MAX	8.6	259	40	46	789	268	23	15	8.2	7.1	5.2	6.2
MIN	3.9	4.5	16	13	14	14	15	8.1	7.0	4.3	4.1	4.7
AC-FT	290	3950	1490	1020	3220	2340	968	684	442	363	278	315

CAL YR 1984 TOTAL 6956.2 MEAN 19.0 MAX 294 MIN 3.9 AC-FT 13800
WTR YR 1985 TOTAL 7737.7 MEAN 21.2 MAX 789 MIN 3.9 AC-FT 15350

11460600 LAGUNITAS CREEK NEAR POINT REYES STATION, CA

LOCATION.--Lat 39°04'49", long 122°47'00", in Nicasio (Black) Grant, Marin County, Hydrologic Unit 18050005, on right bank at upstream side of road bridge, 300 ft downstream from small right-bank tributary, 1.4 mi northeast of town of Point Reyes Station, and 2.5 mi downstream from Nicasio Dam.

DRAINAGE AREA.--81.7 mi^2.

PERIOD OF RECORD.--October 1974 to current year.

REVISED RECORDS.--WDR CA-79-2: 1975, 1978. WDR CA-82-2: 1975 (M), 1978 (M), and 1980 (M).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 50 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Mar. 8-26. Records good except for period of estimated daily discharges, which are fair. Flow regulated by Nicasio Reservoir, capacity, 22,450 acre-ft, Kent Lake, capacity, 16,680 acre-ft, and Alpine Lake, capacity, 8,890 acre-ft, all of which divert water for domestic and industrial use in the county of Marin.

AVERAGE DISCHARGE.--11 years, 93.1 ft^3/s, 67,450 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,100 ft^3/s, Jan. 4, 1982, gage height, 26.96 ft, from rating curve extended above 3,100 ft^3/s on basis of slope-area measurement of peak flow; minimum daily, 0.01 ft^3/s, Sept. 26, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,010 ft^3/s, Feb. 8, gage height, 16.36 ft; minimum daily, 4.1 ft^3/s, Aug. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	6.2	116	35	23	26	93	17	9.0	7.1	4.9	4.7
2	4.3	15	103	33	24	25	78	17	8.8	6.8	4.6	4.9
3	4.5	28	144	30	23	23	64	17	8.8	6.7	4.6	4.8
4	4.5	9.3	103	29	22	24	59	17	8.8	6.8	4.4	4.7
5	4.5	18	93	28	23	31	52	16	8.7	6.6	4.4	4.9
6	4.4	16	80	27	23	60	48	16	8.4	6.8	4.8	4.9
7	4.6	13	68	71	129	128	42	16	8.1	6.8	4.1	4.9
8	4.8	14	58	76	2810	70	39	16	8.1	6.8	4.2	6.5
9	4.5	12	52	59	650	46	38	15	7.7	6.6	4.2	6.1
10	4.8	14	136	52	288	90	34	15	7.7	6.3	4.2	5.4
11	10	109	110	46	182	170	32	15	7.9	6.6	4.5	5.3
12	6.8	77	84	44	133	130	33	15	7.8	6.5	4.5	5.2
13	6.0	439	71	41	104	84	31	15	7.9	6.6	4.5	5.2
14	5.6	74	59	38	86	64	29	14	8.0	6.4	4.6	5.3
15	5.5	59	90	35	72	50	28	14	7.9	6.5	4.6	5.1
16	8.8	452	102	33	66	45	27	11	7.6	6.6	5.5	5.1
17	13	358	80	32	59	41	27	11	7.5	6.5	5.7	4.9
18	7.5	240	73	31	52	38	25	11	7.5	6.4	5.4	5.0
19	6.8	139	72	30	46	35	23	11	7.5	6.4	5.3	5.1
20	6.5	89	60	29	41	34	21	10	7.5	5.9	5.3	5.1
21	6.2	67	53	28	40	32	23	10	7.6	5.4	5.2	5.4
22	6.2	54	49	28	40	31	23	9.7	7.7	4.8	5.0	5.5
23	6.2	44	45	26	34	30	22	9.5	7.8	4.6	4.7	5.8
24	6.0	418	42	26	32	29	21	9.2	7.5	4.5	4.7	5.8
25	6.0	226	39	24	30	28	24	9.0	7.4	4.3	4.7	5.6
26	5.8	129	58	23	30	397	24	9.0	7.2	4.4	4.7	5.6
27	5.8	659	57	23	29	531	19	9.0	6.9	4.3	4.7	5.6
28	5.9	707	49	27	28	307	18	9.0	7.0	4.5	4.6	5.8
29	6.3	287	44	27	---	196	18	9.3	7.0	4.8	4.7	5.8
30	6.4	174	40	25	---	141	17	9.3	7.2	4.9	4.9	5.8
31	6.4	---	38	23	---	110	---	9.1	---	5.0	4.8	---
TOTAL	189.1	4946.5	2268	1079	5119	3046	1032	391.1	234.5	183.2	147.0	159.8
MEAN	6.10	165	73.2	34.8	183	98.3	34.4	12.6	7.82	5.91	4.74	5.33
MAX	13	707	144	76	2810	531	93	17	9.0	7.1	5.7	6.5
MIN	4.3	6.2	38	23	22	23	17	9.0	6.9	4.3	4.1	4.7
AC-FT	375	9810	4500	2140	10150	6040	2050	776	465	363	292	317

CAL YR 1984 TOTAL 14804.8 MEAN 40.5 MAX 707 MIN 4.0 AC-FT 29370
WTR YR 1985 TOTAL 18795.2 MEAN 51.5 MAX 2810 MIN 4.1 AC-FT 37280

11460750 WALKER CREEK NEAR MARSHALL, CA

LOCATION.--Lat 38°10'33", long 122°49'02", in Soulajule (Vasquez) Grant, Marin County, Hydrologic Unit 18050005, on right bank 0.8 mi downstream of Verde Canyon, 2.8 mi below confluence of Arroyo Sausal and Salmon Creek and 4.0 mi east of Marshall.

DRAINAGE AREA.--31.1 mi^2.

PERIOD OF RECORD.--October 1983 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 140 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Feb. 20-25. Records good. Flow affected by regulation and diversions and by Soulajule Reservoir on Arroyo Sausal, a tributary to Walker Creek. Reservoir capacity 10,570 acre-ft.

EXTREMES FOR PERIOD OF RECORD--Maximum discharge, 3,880 ft^3/s, Dec. 25, 1983, gage height 8.14 ft; minimum daily, 4.4 ft^3/s, Oct. 5, 6, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,050 ft^3/s, Feb. 8, gage height, 4.33 ft; minimum daily, 4.9 ft^3/s, several days in October.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	5.3	24	15	13	16	38	11	5.4	5.4	5.8	5.1
2	5.8	7.5	27	15	12	16	31	10	5.4	5.4	5.4	5.1
3	5.8	7.0	34	15	12	16	28	8.7	5.4	5.4	5.4	5.1
4	5.8	6.3	26	14	12	16	24	8.7	5.4	5.4	5.4	5.1
5	5.8	6.3	24	14	12	16	21	8.7	5.4	5.4	5.4	5.1
6	5.8	7.9	23	14	12	25	18	8.7	5.4	5.4	5.4	5.1
7	5.8	6.8	23	26	66	31	15	8.0	5.4	5.4	5.4	5.1
8	5.8	6.8	23	21	763	18	14	6.7	5.4	5.4	5.4	5.6
9	5.8	6.8	22	23	313	21	13	6.6	5.4	5.4	5.4	5.4
10	6.5	8.9	43	24	153	33	12	6.6	5.4	5.4	5.4	5.1
11	6.6	19	30	21	105	37	11	6.5	5.4	5.4	5.4	5.1
12	5.3	16	26	20	80	29	11	6.2	5.4	5.4	5.4	5.1
13	5.3	53	22	19	66	26	10	6.2	5.4	5.4	5.4	5.1
14	4.9	16	21	18	57	21	9.2	6.2	5.4	5.4	5.4	5.1
15	4.9	20	27	18	50	15	9.2	6.2	5.4	5.4	5.4	5.1
16	7.2	99	24	17	45	17	9.2	6.1	5.4	5.4	5.4	5.1
17	5.6	45	23	17	41	17	9.1	5.8	5.4	5.4	5.4	5.1
18	5.3	45	22	16	39	20	9.5	5.8	5.4	5.4	5.4	5.1
19	5.3	27	22	16	35	18	11	5.8	5.4	5.4	5.4	5.1
20	4.9	21	20	15	33	17	11	5.8	5.4	5.4	5.4	5.1
21	4.9	18	19	15	21	16	11	5.8	5.4	5.4	5.4	5.1
22	4.9	18	17	14	16	16	11	5.8	5.4	5.4	5.4	5.1
23	4.9	17	17	14	13	16	11	5.8	5.4	5.4	5.4	5.1
24	4.9	79	17	14	11	15	11	5.8	5.4	5.4	5.4	5.1
25	4.9	37	16	14	9.7	15	11	5.8	5.4	5.4	5.4	5.1
26	4.9	27	20	14	9.3	106	11	5.8	5.4	5.4	5.4	5.1
27	4.9	160	18	13	9.2	170	11	5.8	5.4	5.4	5.4	5.1
28	4.9	82	17	13	12	142	11	5.8	5.4	5.4	5.4	5.1
29	5.3	41	16	13	---	94	11	5.8	5.4	5.8	5.1	5.1
30	5.3	30	16	13	---	69	11	5.8	5.4	5.8	5.1	5.1
31	5.3	---	16	13	---	49	---	5.5	---	5.8	5.1	---
TOTAL	169.1	939.6	695	508	2020.2	1133	424.2	207.8	162.0	168.6	166.9	153.8
MEAN	5.45	31.3	22.4	16.4	72.2	36.5	14.1	6.70	5.40	5.44	5.38	5.13
MAX	7.2	160	43	26	763	170	38	11	5.4	5.8	5.8	5.6
MIN	4.9	5.3	16	13	9.2	15	9.1	5.5	5.4	5.4	5.1	5.1
AC-FT	335	1860	1380	1010	4010	2250	841	412	321	334	331	305

CAL YR 1984 TOTAL 5054.7 MEAN 13.8 MAX 160 MIN 4.9 AC-FT 10030
WTR YR 1985 TOTAL 6748.2 MEAN 18.5 MAX 763 MIN 4.9 AC-FT 13390

11461000 RUSSIAN RIVER NEAR UKIAH, CA

LOCATION.--Lat 39°11'44", long 123°11'38", in Yokaya Grant, Mendocino County, Hydrologic Unit 18010110, on right bank 20 ft downstream from bridge on Lake Mendocino Drive, 0.4 mi upstream from East Fork, 0.6 mi downstream from York Creek, and 3.2 mi north of Ukiah.

DRAINAGE AREA.--100 mi^2.

PERIOD OF RECORD.--August 1911 to September 1913, October 1952 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 599.22 ft above National Geodetic Vertical Datum of 1929. Prior to October 1952, nonrecording gage at bridge 20 ft upstream at different datum. Oct. 1, 1952, to Nov. 8, 1971, water-stage recorder at site 0.6 mi upstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 1-16 and May 17 to Sept. 30. Records good except for periods of estimated records, which are fair. No regulation. Diversions above station for irrigation of about 1,000 acres.

AVERAGE DISCHARGE.--35 years, 183 ft^3/s, 133,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,900 ft^3/s, Dec. 21, 1955, gage height, 19.0 ft, site and datum then in use; no flow at times in 1911, 1952-53, 1960-61, 1964-65, 1970-73, 1975-81.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 27	1515	4,270	12.41	Feb. 8	0245	*6,700	*14.74

Minimum daily, 0.04 ft^3/s, several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	5.8	257	45	23	41	201	21	6.0	1.7	.26	.04
2	.54	134	574	42	24	39	164	20	5.7	1.6	.24	.04
3	.57	116	625	39	24	38	138	19	5.4	1.6	.22	.04
4	.57	37	343	36	22	40	119	17	5.2	1.5	.20	.04
5	.57	18	311	35	21	44	105	17	5.0	1.5	.18	.04
6	.57	57	226	34	20	70	93	16	4.8	1.4	.17	.04
7	.60	89	184	51	988	206	84	15	4.6	1.3	.15	.04
8	.64	215	156	57	3060	190	77	14	4.4	1.3	.14	4.5
9	.64	137	136	88	631	162	70	14	4.2	1.2	.13	4.0
10	3.8	557	193	103	367	352	64	15	4.0	1.2	.12	3.6
11	5.6	1120	206	74	267	263	58	13	3.8	1.2	.11	3.1
12	3.9	966	159	64	241	171	52	11	3.4	1.1	.10	2.4
13	3.4	1550	132	58	197	131	48	13	3.6	1.1	.09	2.0
14	3.0	404	114	52	162	108	43	13	3.4	1.0	.09	2.0
15	2.7	331	147	48	140	92	41	13	3.3	1.0	.08	1.9
16	23	609	158	45	125	82	40	12	3.1	.98	.08	1.8
17	21	341	128	41	110	75	38	11	3.0	.95	.07	1.8
18	8.4	511	114	38	98	68	35	11	2.9	.92	.07	1.6
19	8.8	255	107	36	89	61	33	10	2.7	.87	.06	1.5
20	7.9	217	95	35	80	56	32	10	2.6	.86	.06	1.3
21	6.0	177	83	33	74	49	39	9.7	2.5	.84	.06	1.1
22	5.4	131	74	32	69	44	35	9.3	2.4	.82	.05	.98
23	4.2	115	69	31	63	43	31	8.9	2.3	.72	.05	.86
24	3.7	1060	65	30	58	60	26	8.5	2.2	.64	.05	.78
25	3.3	402	60	29	54	49	26	8.1	2.2	.56	.04	.69
26	3.0	254	65	27	52	918	25	7.8	2.1	.50	.04	.60
27	3.1	1360	64	26	49	1190	25	7.4	2.0	.45	.04	.53
28	5.8	1210	57	32	44	842	23	7.1	1.9	.40	.04	.47
29	14	560	51	30	---	480	22	6.8	1.8	.36	.04	.44
30	8.6	346	48	26	---	330	21	6.5	1.8	.32	.04	.42
31	6.7	---	48	25	---	251	---	6.2	---	.29	.04	---
TOTAL	160.50	13274.8	5049	1342	7152	6545	1808	371.3	102.3	30.18	3.11	38.65
MEAN	5.18	442	163	43.3	255	211	60.3	12.0	3.41	.97	.10	1.29
MAX	23	1550	625	103	3060	1190	201	21	6.0	1.7	.26	4.5
MIN	.50	5.8	48	25	20	38	21	6.2	1.8	.29	.04	.04
AC-FT	318	26330	10010	2660	14190	12980	3590	740	203	60	6.2	77

CAL YR 1984 TOTAL 41060.65 MEAN 112 MAX 1550 MIN .10 AC-FT 81440
WTR YR 1985 TOTAL 35876.84 MEAN 98.3 MAX 3060 MIN .04 AC-FT 71160

11461500 EAST FORK RUSSIAN RIVER NEAR CALPELLA, CA

LOCATION.--Lat 39°14'48", long 123°07'45", in NW 1/4 NW 1/4 sec.18, T.16 N., R.11 W., Mendocino County, Hydrologic Unit 18010110, on left bank 0.1 mi downstream from Cold Creek, and 3.9 mi east of Calpella.

DRAINAGE AREA.--92.2 mi^2.

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 above National Geodetic Vertical Datum of 1929. Prior to May 28, 1957, at site 1.3 mi downstream at different datum. May 28, 1957, to Apr. 5, 1966, at site 0.4 mi downstream at same datum.

REMARKS.--Estimated daily discharges: Aug. 22, 23. Records fair. Flow greatly affected by diversion from Eel River through Potter Valley powerhouse (station 11471000). Diversion for irrigation of about 8,000 acres above station.

AVERAGE DISCHARGE.--44 years, 342 ft^3/s, 247,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,700 ft^3/s, Dec. 22, 1964, gage height, 20.21 ft, site then in use; minimum daily, 2.0 ft^3/s, July 13, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 27	1500	3,720	12.86	Feb. 8	0030	*6,440	*16.02

Minimum daily, 33 ft^3/s, several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	256	299	436	296	337	341	441	70	33	133	147	89
2	284	351	666	296	335	340	415	75	37	125	155	90
3	282	326	632	293	334	335	391	83	45	135	158	111
4	278	319	473	291	334	328	382	82	53	127	122	242
5	281	307	489	334	334	343	384	100	43	131	154	241
6	287	302	421	337	334	358	380	90	38	131	150	266
7	287	345	400	354	1210	418	356	80	46	121	149	278
8	287	399	383	353	2730	387	330	77	53	124	150	316
9	288	337	379	352	647	309	348	76	67	119	159	320
10	300	715	519	357	491	567	336	78	63	110	159	317
11	310	771	474	350	441	468	350	71	59	104	139	305
12	313	776	423	347	421	422	351	80	56	107	147	304
13	310	1450	405	347	404	399	332	89	54	111	145	303
14	319	479	387	341	393	394	335	86	55	115	146	304
15	323	554	445	340	380	373	334	77	127	115	135	303
16	335	701	424	340	376	367	334	72	126	118	137	298
17	328	548	401	340	370	367	294	83	113	117	106	306
18	319	649	394	337	366	367	92	80	106	116	116	310
19	328	410	389	288	366	366	70	76	102	141	113	309
20	324	443	380	250	364	363	77	62	120	140	59	312
21	321	394	379	345	360	373	77	33	121	140	58	312
22	321	365	376	347	357	367	73	33	122	143	67	312
23	321	458	357	345	353	363	88	33	114	134	57	312
24	303	1200	337	349	348	383	283	33	113	126	57	308
25	305	475	326	343	348	354	283	33	112	130	57	305
26	308	403	336	340	332	1090	87	33	76	143	61	300
27	306	1350	333	341	342	1530	86	33	68	138	57	300
28	307	1020	323	348	343	985	68	33	81	140	44	293
29	310	593	316	344	---	646	73	33	116	157	43	298
30	309	484	312	340	---	535	67	33	136	146	102	304
31	305	---	313	336	---	479	---	33	---	150	94	---
TOTAL	9455	17223	12628	10321	13750	14717	7517	1950	2455	3987	3443	8368
MEAN	305	574	407	333	491	475	251	62.9	81.8	129	111	279
MAX	335	1450	666	357	2730	1530	441	100	136	157	159	320
MIN	256	299	312	250	332	309	67	33	33	104	43	89
AC-FT	18750	34160	25050	20470	27270	29190	14910	3870	4870	7910	6830	16600

CAL YR 1984 TOTAL 110803 MEAN 303 MAX 1670 MIN 31 AC-FT 219780
WTR YR 1985 TOTAL 105814 MEAN 290 MAX 2730 MIN 33 AC-FT 209900

11461800 LAKE MENDOCINO NEAR UKIAH, CA

LOCATION.--Lat 39°11'53", long 123°10'50", in Yokaya Grant, Mendocino County, Hydrologic Unit 18010110, in intake tower 30 ft upstream from Coyote Dam on East Fork Russian River, and 3.6 mi northeast of Ukiah.

DRAINAGE AREA.--105 mi^2.

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 National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Reservoir is formed by earthfill dam; storage began in November 1958. Capacity based on 1975 resurvey, new capacity table put into use July 1, 1977, 122,100 acre-ft between elevations 637.0 ft, invert of outlet tunnel and 764.8 ft, spillway crest, NGVD. Storage affected by diversions from Eel River through Potter Valley powerhouse (station 11471000). Water is released down East Fork Russian River for irrigation and recreation use. Records, including current year extremes, represent contents at 2400 hours.

COOPERATION.--Records were provided by Corps of Engineers, not rounded to Geological Survey standards.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 114,800 acre-ft, Jan. 24, 1970, elevation, 760.86 ft; minimum, 12,070 acre-ft, Nov. 4, 1977, elevation, 687.15 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 91,885 acre-ft, Apr. 29,30, elevation, 748.47 ft; minimum, 53,571 acre-ft, Sept. 3, elevation, 726.24 ft.

Capacity table (elevation, in feet NGVD, and contents, in acre-feet)

637	0	665	2,810	690	13,800	730	59,500
645	152	670	4,290	695	17,300	740	76,400
650	432	675	6,110	700	21,200	750	94,400
655	914	680	8,280	710	31,300	760	113,000
660	1,700	685	10,800	720	44,300	764.8	122,100

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60391	70523	72606	72380	72327	69161	90663	91848	85192	72641	62076	54230
2	60588	71077	73426	72414	72397	69798	90755	91812	84741	72292	61960	53869
3	60737	71423	73269	72397	72449	70437	90791	91775	84417	71962	61860	53571
4	60951	71788	72571	72380	72449	71077	90791	91757	84004	71545	61727	53696
5	61182	72136	72536	72449	72327	71806	90791	91793	83662	71216	61595	53696
6	61446	72484	72397	72519	72275	72589	90736	91793	83321	70852	61463	53759
7	61694	72763	72241	72676	74108	73461	90609	91720	82890	70471	61281	54057
8	61893	72955	72032	72763	77224	74196	90591	91611	82495	70108	61083	54293
9	62192	73042	71875	72868	74810	74968	90627	91484	82065	69712	60967	54560
10	62658	74021	72049	72937	71910	76200	90591	91374	81654	69281	60786	54781
11	62991	75144	72414	73007	71007	77118	90627	91265	81243	68886	60605	55034
12	63342	76306	72676	73060	71233	77844	90663	91210	80743	68457	60490	55319
13	63693	76482	72833	73112	71423	78589	90682	91119	80118	68114	60391	55542
14	64012	73811	72955	73077	71806	79264	90700	90955	79709	67687	60243	55780
15	64348	72659	73147	72920	72554	79887	90663	90791	79388	67294	60128	56003
16	64903	72275	73269	72798	73269	80457	90882	90518	79086	66919	59997	56210
17	65241	72014	73182	72676	72990	81011	91374	90318	78695	66443	59768	56434
18	65629	71736	72815	72536	70800	81546	91392	90100	78269	66053	59588	56658
19	66002	71458	72693	72414	69109	82083	91356	89899	77773	65697	59441	56882
20	66358	71615	72571	72241	67858	82603	91356	89663	77366	65359	59098	57124
21	66698	71684	72571	72171	66579	83087	91374	89354	76924	65038	58659	57349
22	66988	71840	72536	72275	65376	83554	91392	89046	76482	64735	58253	57574
23	67448	72432	72502	72362	65409	84004	91447	88665	75988	64449	57816	57816
24	67807	74021	72432	72432	65900	84507	91666	88320	75513	64113	57397	58091
25	68131	74372	72310	72502	66562	84940	91775	87993	75073	63760	56979	58383
26	68423	73496	72292	72589	67226	86979	91812	87649	74634	63425	56562	58578
27	68732	75021	72241	72693	67875	89972	91848	87269	74126	63141	56162	58870
28	69127	74021	72258	72728	68525	91246	91830	86853	73706	62875	55716	59082
29	69488	72484	72310	72606	---	91010	91885	86401	73286	62641	55224	59294
30	69832	72327	72345	72484	---	90882	91885	85986	72937	62458	54907	59555
31	70177	---	72380	72345	---	90755	---	85589	---	62258	54576	---
MAX	70177	76482	73426	73112	77224	91246	91885	91848	85192	72641	62076	59555
MIN	60391	70523	71875	72171	65376	69161	90591	85589	72937	62258	54576	53571
a	736.29	737.53	737.56	737.54	735.33	747.85	748.47	745.00	737.88	731.62	726.88	729.98
b	+9901	+2150	+53	-35	-3820	+22230	+1130	-6296	-12652	-10679	-7682	+4979

CAL YR 1984 b -7881
WTR YR 1985 b -721

a Elevation, in feet NGVD, at end of month.
b Change in contents, in acre-feet.

11462000 EAST FORK RUSSIAN RIVER NEAR UKIAH, CA

LOCATION.--Lat 39°11'51", long 123°11'11", in Yokaya Grant, Mendocino County, Hydrologic Unit 18010110, on right bank of outlet channel, 500 ft downstream from Coyote Dam, 1,300 ft upstream from mouth, and 3.2 mi northeast of Ukiah.

DRAINAGE AREA.--105 mi^2.

WATER-DISCHARGE RECORDS

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 above National Geodetic Vertical Datum of 1929. Prior to October 1951, nonrecording gage at site 0.5 mi upstream at different datum. October 1951 to June 1956, water-stage recorder at site 1.0 mi upstream at different datum.

REMARKS.--Estimated daily discharges: Aug. 20-27. Records good. Flow affected by diversion from Eel River through Potter Valley powerhouse (station 11471000) and since November 1958 by storage in Lake Mendocino (station 11461800) 500 ft upstream. Diversions above station for irrigation of about 8,000 acres.

AVERAGE DISCHARGE (unadjusted).--7 years (water years 1912-13, 1952-55, 1958), 356 ft^3/s, 257,900 acre-ft/yr; 26 years (water years 1960-85), 358 ft^3/s, 259,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD (Prior to regulation by Lake Mendocino).--Maximum discharge, 13,300 ft^3/s, Dec. 21, 1955, gage height, 16.86 ft site and datum then in use, from rating curve extended above 1,700 ft^3/s on basis of maximum flow at station upstream which was defined to 8,600 ft^3/s; no flow Aug. 13-15, 1913. 1957 to current year: Maximum discharge, 7,350 ft^3/s, Jan. 24, 1970, gage height, 10.84 ft; minimum daily, 0.02 ft^3/s, Apr. 17, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,060 ft^3/s, Nov. 28, gage height, 4.56 ft; minimum daily, 20 ft^3/s, Mar. 11, 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	236	150	307	311	367	25	503	70	223	260	234	246
2	215	150	309	312	307	26	405	70	223	261	222	246
3	217	150	738	312	307	26	405	71	223	258	208	246
4	198	150	824	312	349	26	405	71	223	263	207	215
5	188	151	491	312	405	26	405	69	223	274	207	262
6	188	153	491	312	360	26	405	70	219	278	207	246
7	188	250	468	312	303	24	405	99	228	274	221	246
8	188	303	492	321	1130	23	386	118	241	277	239	246
9	167	303	492	331	2000	23	359	117	244	278	231	246
10	153	306	421	331	1980	21	360	116	257	279	226	222
11	151	311	295	331	978	20	360	115	279	280	218	191
12	149	311	296	331	355	20	360	116	273	280	204	200
13	146	1300	326	331	303	21	360	137	271	278	204	199
14	146	1840	352	372	210	40	360	163	272	277	204	202
15	147	1300	353	420	36	64	359	160	269	278	202	202
16	150	908	354	420	36	85	221	160	269	277	201	203
17	150	717	445	423	530	85	55	160	277	277	199	202
18	150	720	497	426	1620	95	72	167	290	277	199	203
19	150	570	497	426	1260	99	62	170	286	277	196	204
20	150	405	413	426	1020	99	80	171	278	276	210	203
21	150	339	370	385	1020	99	51	173	289	277	254	204
22	150	303	373	308	1010	116	51	173	293	268	252	207
23	150	303	374	303	353	125	51	173	293	275	250	192
24	149	307	374	303	35	125	178	173	292	271	250	175
25	150	307	373	303	27	125	203	173	284	269	247	165
26	150	734	373	303	24	89	64	173	255	258	252	173
27	150	798	355	303	24	39	62	173	260	250	246	173
28	150	1450	318	349	25	398	50	201	231	231	246	173
29	150	1440	309	405	---	803	61	232	263	235	246	173
30	150	613	310	405	---	650	70	222	261	224	246	176
31	150	---	310	405	---	650	---	223	---	233	246	---
TOTAL	5076	17042	12700	10844	16374	4093	7168	4479	7789	8270	6974	6241
MEAN	164	568	410	350	585	132	239	144	260	267	225	208
MAX	236	1840	824	426	2000	803	503	232	293	280	254	262
MIN	146	150	295	303	24	20	50	69	219	224	196	165
AC-FT	10070	33800	25190	21510	32480	8120	14220	8880	15450	16400	13830	12380

CAL YR 1984 TOTAL 117507 MEAN 321 MAX 1840 MIN 61 AC-FT 233100
WTR YR 1985 TOTAL 107050 MEAN 293 MAX 2000 MIN 20 AC-FT 212300

11462000 EAST FORK RUSSIAN RIVER NEAR UKIAH, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953-55, 1964-68, 1973 to current year.
CHEMICAL ANALYSIS: Water years 1953-55, 1973-82.
BIOLOGICAL DATA: Water year 1977-78.
WATER TEMPERATURES: Water years 1953-55, 1965-68, 1973 to current year.
SEDIMENT RECORDS: Water years 1953-55, 1964-68.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: December 1952 to March 1955, October 1964 to September 1968, October 1972 to current year.
SEDIMENT RECORDS: December 1952 to March 1955, January 1964 to September 1968.

INSTRUMENTATION.--Temperature recorder since October 1972. Digital recorder set for one-hour-interval punches.

REMARKS.--Records represent water temperature at sensor within 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 23.5°C on several days in 1977; minimum recorded, 7.0°C Jan. 14, 1973, and on many days in 1984.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum recorded, 21.0°C Oct. 2; minimum recorded, 7.0°C on many days during January and February.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.0	19.5	15.5	15.5	11.5	11.0	8.0	8.0	7.5	7.0	8.5	8.0
2	21.0	19.5	15.5	15.5	11.0	11.0	8.0	8.0	8.0	7.0	8.5	8.0
3	20.0	20.0	15.5	15.5	11.0	11.0	8.0	8.0	7.5	7.0	8.5	7.5
4	20.0	20.0	15.5	15.0	11.0	11.0	8.0	8.0	7.5	7.0	9.0	8.0
5	20.0	20.0	15.0	15.0	11.0	10.5	8.0	8.0	7.5	7.0	8.0	8.0
6	20.0	19.5	15.0	14.5	11.0	10.5	8.0	7.5	7.5	7.0	8.5	8.0
7	20.0	19.5	15.0	14.5	10.5	10.5	8.0	7.5	7.5	7.0	9.0	8.0
8	20.0	19.5	15.0	14.5	10.5	10.5	8.0	7.5	7.5	7.0	9.0	8.0
9	20.0	19.5	14.5	14.5	10.5	10.5	7.5	7.5	7.5	7.5	9.0	8.0
10	20.0	19.5	14.5	14.5	11.0	10.5	8.0	7.5	7.5	7.5	8.5	8.0
11	19.5	19.0	14.5	14.0	10.5	10.5	7.5	7.5	7.5	7.5	9.5	8.0
12	19.0	19.0	14.0	14.0	10.5	10.0	7.5	7.5	8.0	7.5	9.5	8.0
13	19.0	18.5	14.0	13.5	10.5	10.0	7.5	7.5	8.0	7.5	9.5	8.0
14	19.0	18.5	14.0	14.0	10.5	10.0	7.5	7.5	7.5	7.5	9.0	8.0
15	19.0	18.5	14.0	13.5	10.0	10.0	7.5	7.5	8.0	7.5	9.0	8.0
16	18.5	18.5	13.5	13.5	10.0	10.0	7.5	7.5	8.0	7.5	8.5	8.5
17	18.5	17.5	13.5	13.0	10.0	9.5	7.5	7.0	8.0	7.0	8.5	8.5
18	17.5	17.0	13.0	13.0	10.0	10.0	7.5	7.0	7.5	7.5	8.5	8.5
19	17.0	17.0	13.0	13.0	10.0	9.5	7.5	7.0	8.0	7.5	9.0	8.5
20	17.0	16.5	13.0	12.5	9.5	9.0	7.5	7.0	8.0	7.5	8.5	8.5
21	17.0	16.5	13.0	12.5	9.0	9.0	7.0	7.0	8.0	8.0	9.0	8.5
22	17.0	16.5	12.5	12.5	9.0	9.0	7.0	7.0	8.0	8.0	9.0	8.5
23	16.5	16.0	12.5	12.5	9.0	8.5	7.0	7.0	8.5	7.5	8.5	8.5
24	16.5	16.0	12.5	12.0	8.5	8.5	7.0	7.0	8.5	7.5	9.0	8.5
25	16.5	16.0	12.0	12.0	8.5	8.5	7.0	7.0	8.5	7.5	9.0	8.5
26	16.5	16.0	12.0	12.0	8.5	8.0	7.5	7.0	8.5	7.5	8.5	8.5
27	16.5	16.0	12.0	11.5	8.5	8.0	7.5	7.0	8.5	7.5	9.0	8.5
28	16.0	16.0	12.0	11.5	8.0	8.0	7.5	7.0	9.0	7.5	9.0	8.5
29	16.0	16.0	12.0	12.0	8.0	8.0	7.5	7.0	---	---	8.5	8.5
30	16.0	15.5	12.0	11.0	8.0	8.0	7.5	7.0	---	---	9.0	8.5
31	16.0	15.5	---	---	8.0	8.0	8.0	7.0	---	---	8.5	8.5
MONTH	21.0	15.5	15.5	11.0	11.5	8.0	8.0	7.0	9.0	7.0	9.5	7.5

11462000 EAST FORK RUSSIAN RIVER NEAR UKIAH, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	8.5	9.5	9.0	13.0	13.0	15.0	15.0	18.0	17.0	16.5	15.0
2	9.0	8.5	9.5	9.0	13.0	13.0	15.0	15.0	18.5	17.5	17.0	16.0
3	8.5	8.5	9.5	9.0	13.0	13.0	15.5	15.0	18.5	17.5	18.0	17.0
4	9.0	8.5	9.5	9.0	13.0	13.0	15.5	15.5	18.5	17.5	20.0	17.5
5	9.0	8.5	9.5	9.0	13.0	12.5	15.5	15.5	18.5	18.0	19.0	18.5
6	9.0	8.5	9.5	9.0	13.0	12.5	15.5	15.5	18.5	17.0	19.0	18.5
7	9.0	8.5	9.5	9.0	13.5	13.0	15.5	15.5	19.0	18.0	19.5	19.0
8	9.0	9.0	9.5	9.0	13.0	13.0	15.5	15.5	19.0	17.5	20.0	19.5
9	9.0	8.5	9.5	9.0	13.5	13.0	16.0	15.5	19.0	18.0	20.0	19.5
10	9.0	9.0	9.5	9.0	13.5	13.0	16.0	15.5	19.0	18.0	19.5	19.0
11	9.0	9.0	9.5	9.0	13.5	13.0	16.0	16.0	19.5	18.5	19.5	19.0
12	9.0	9.0	9.5	9.0	13.5	13.0	16.5	16.0	19.5	18.5	19.5	19.0
13	9.0	9.0	9.5	9.0	13.5	13.0	16.5	16.0	19.5	18.5	19.5	19.0
14	9.0	9.0	9.5	9.5	13.5	13.5	17.0	16.0	19.5	18.5	19.5	19.0
15	9.0	9.0	9.5	9.5	13.5	13.5	17.0	16.0	20.0	19.0	19.5	19.0
16	10.0	9.0	9.5	9.5	14.0	13.5	17.0	16.5	20.0	19.0	19.5	19.0
17	9.0	9.0	9.5	9.0	14.0	13.5	17.5	16.5	19.5	18.5	19.5	19.0
18	10.5	9.0	9.5	9.5	14.0	13.5	17.0	16.0	19.5	18.5	19.5	19.0
19	10.5	8.5	9.5	9.5	14.0	14.0	17.0	16.0	19.0	18.0	19.5	19.0
20	11.0	9.0	9.5	9.5	14.5	14.0	17.0	15.5	19.5	10.5	20.0	19.0
21	9.5	9.0	9.5	9.5	14.5	14.0	17.0	16.5	11.0	10.5	19.5	19.0
22	9.5	9.0	9.5	9.5	14.0	14.0	17.5	16.5	11.0	10.5	19.5	19.0
23	9.5	9.0	9.5	9.5	14.0	14.0	17.5	16.5	11.0	10.5	19.5	19.0
24	9.5	9.0	9.5	9.5	14.5	14.0	17.5	16.5	11.5	10.5	19.5	19.0
25	9.5	9.0	9.5	9.5	15.0	14.0	18.0	16.5	12.0	11.0	19.5	19.0
26	9.5	9.0	10.0	9.5	15.0	15.0	18.0	17.0	12.0	11.0	19.5	19.0
27	9.5	9.0	9.5	9.5	15.0	15.0	18.5	17.0	12.5	11.5	19.5	19.0
28	10.0	9.0	12.0	9.5	15.0	13.5	19.0	17.0	13.0	12.0	19.5	19.0
29	9.5	9.0	12.5	12.0	15.0	15.0	18.0	17.0	14.0	12.0	19.5	19.0
30	9.5	9.0	13.0	12.5	15.0	14.0	18.5	17.0	14.5	13.0	19.5	19.0
31	---	---	13.0	13.0	---	---	17.5	17.0	15.5	14.0	---	---
MONTH	11.0	8.5	13.0	9.0	15.0	12.5	19.0	15.0	20.0	10.5	20.0	15.0
YEAR	21.0	7.0										

11462500 RUSSIAN RIVER NEAR HOPLAND, CA

LOCATION.--Lat 39°01'36", long 123°07'46", in Rancho de Sanel Grant, Mendocino County, Hydrologic Unit 18010110, on right bank at abandoned highway bridge, 0.2 mi downstream from McNab Creek, 4 mi north of Hopland, and 15.2 mi downstream from Coyote Dam.

DRAINAGE AREA.--362 mi^2.

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1041: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 497.61 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 9, 1943, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Diversions for irrigation of about 11,800 acres 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 (station 11461800) 15.2 mi upstream.

AVERAGE DISCHARGE.--46 years, 736 ft^3/s, 533,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,000 ft^3/s, Dec. 22, 1955, gage height, 27.00 ft; minimum daily, 9.1 ft^3/s, Apr. 20, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1937 reached a stage of 30.0 ft, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,400 ft^3/s, Feb. 8, gage height, 14.73 ft; minimum daily, 112 ft^3/s, May 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	228	162	855	404	417	143	1010	136	222	247	207	222
2	203	203	1170	390	343	136	798	134	222	244	205	222
3	194	312	1870	384	339	131	728	125	220	243	187	222
4	190	202	1610	384	346	128	674	118	216	243	178	215
5	175	178	1140	382	410	145	637	115	210	251	182	224
6	172	193	969	379	398	181	605	112	206	261	179	217
7	170	272	857	387	777	332	577	115	207	261	179	220
8	169	496	821	408	7520	365	551	140	220	263	213	234
9	163	500	779	429	3390	303	496	140	223	262	206	238
10	144	944	962	495	2750	692	477	144	231	260	200	238
11	155	1840	789	445	1890	653	464	141	258	261	194	191
12	148	2090	668	429	935	417	453	138	257	259	173	193
13	146	3800	617	420	784	327	445	142	243	253	170	195
14	146	2680	609	423	672	282	437	170	248	251	170	195
15	144	2000	622	477	401	267	426	175	244	254	170	195
16	172	2390	662	477	342	269	388	173	239	251	170	196
17	182	1490	657	472	439	256	198	172	243	251	170	198
18	163	1720	731	468	1650	245	171	170	254	249	167	198
19	162	1180	722	464	1480	237	156	172	260	243	168	198
20	161	861	651	460	1220	225	164	173	263	242	162	198
21	161	720	546	446	1200	216	150	175	267	244	215	197
22	160	571	535	361	1180	205	144	174	278	242	222	198
23	158	523	524	355	776	219	132	173	282	247	226	200
24	157	1590	514	351	247	239	151	172	284	246	225	178
25	157	949	506	347	201	226	299	170	285	243	221	169
26	157	1010	521	343	175	1620	167	167	253	239	222	162
27	157	3020	514	340	164	2650	152	169	244	223	220	165
28	158	3580	452	357	154	2290	142	174	226	209	222	166
29	161	2650	425	428	---	1980	129	210	229	223	222	167
30	162	1480	416	428	---	1420	138	215	242	198	222	166
31	162	---	413	428	---	1210	---	220	---	207	222	---
TOTAL	5137	39606	23127	12761	30600	18009	11459	4924	7276	7570	6089	5977
MEAN	166	1320	746	412	1093	581	382	159	243	244	196	199
MAX	228	3800	1870	495	7520	2650	1010	220	285	263	226	238
MIN	144	162	413	340	154	128	129	112	206	198	162	162
AC-FT	10190	78560	45870	25310	60700	35720	22730	9770	14430	15020	12080	11860

CAL YR 1984	TOTAL	199369	MEAN	545	MAX	3800	MIN	65	AC-FT	395400
WTR YR 1985	TOTAL	172535	MEAN	473	MAX	7520	MIN	112	AC-FT	342200

11463000 RUSSIAN RIVER NEAR CLOVERDALE, CA

LOCATION.--Lat 38°52'46", long 123°03'09", in NW 1/4 NW 1/4 sec.23, T.12 N., R.11 W., Mendocino County, Hydrologic Unit 18010110, on left bank 0.3 mi downstream from Cummisky Creek, and 5.5 mi northwest of Cloverdale, and 28 mi downstream of Coyote Dam and Lake Mendocino.

DRAINAGE AREA.--503 mi^2.

PERIOD OF RECORD.--July 1951 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 350 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to July 30, 1970, at site 0.2 mi upstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 6-22, and Dec. 30 to Jan. 22. Records good. Diversions for irrigation of about 15,300 acres 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 (station 11461800).

AVERAGE DISCHARGE.--34 years, 1,011 ft^3/s, 732,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,200 ft^3/s, Dec. 22, 1964, gage height, 31.60 ft, site and datum then in use; minimum daily, 12 ft^3/s, Apr. 22, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,300 ft^3/s, Feb. 8, gage height, 14.06 ft; minimum daily, 126 ft^3/s, May 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	263	163	1450	537	548	214	1370	161	228	238	201	223
2	245	250	1490	520	470	200	1120	153	230	236	202	228
3	227	367	2490	499	451	190	1010	151	227	243	188	225
4	243	267	2060	502	447	189	926	143	223	238	180	224
5	198	230	1550	470	519	210	869	137	221	244	188	216
6	192	254	1340	480	531	305	814	132	208	255	182	223
7	188	292	1200	518	658	541	775	126	204	256	180	225
8	183	596	1150	525	8750	587	743	143	219	266	200	250
9	181	598	1090	522	4010	513	676	150	227	265	208	255
10	190	998	1610	560	2950	1270	645	152	225	257	202	251
11	197	2320	1520	542	2240	1290	623	152	241	253	197	216
12	198	3350	1180	508	1220	804	607	142	252	258	178	201
13	180	5180	1040	467	1020	621	590	145	244	258	172	203
14	164	3260	988	455	889	521	577	172	240	254	168	206
15	185	2500	981	517	614	468	560	187	230	258	161	204
16	210	3940	1030	520	513	441	537	185	222	247	160	204
17	229	2120	956	517	458	418	360	184	232	240	165	207
18	200	2290	1040	493	1510	396	278	184	238	236	162	197
19	178	1590	1040	490	1570	377	261	184	247	240	164	193
20	162	1250	957	487	1290	354	240	188	252	232	162	192
21	153	1080	803	470	1270	338	254	188	252	239	187	193
22	157	856	776	470	1250	317	227	181	267	256	217	189
23	166	765	773	467	1040	325	210	180	273	239	220	199
24	161	2080	752	472	410	351	194	175	283	240	218	184
25	157	1390	736	464	329	336	354	168	284	235	215	169
26	157	1210	810	452	281	1950	252	167	265	242	225	161
27	158	4310	804	450	255	3890	199	172	241	223	222	168
28	160	5010	705	456	233	3250	184	173	228	215	220	166
29	173	3600	642	537	---	2610	161	196	208	205	224	163
30	173	2270	590	550	---	1860	162	224	230	200	224	161
31	166	---	568	552	---	1590	---	221	---	200	223	---
TOTAL	5794	54386	34121	15469	35726	26726	15778	5216	7141	7468	6015	6096
MEAN	187	1813	1101	499	1276	862	526	168	238	241	194	203
MAX	263	5180	2490	560	8750	3890	1370	224	284	266	225	255
MIN	153	163	568	450	233	189	161	126	204	200	160	161
AC-FT	11490	107900	67680	30680	70860	53010	31300	10350	14160	14810	11930	12090

CAL YR 1984 TOTAL 261356 MEAN 714 MAX 5180 MIN 60 AC-FT 518400
WTR YR 1985 TOTAL 219936 MEAN 603 MAX 8750 MIN 126 AC-FT 436200

11463170 BIG SULPHUR CREEK AT GEYSERS RESORT, NEAR CLOVERDALE, CA

LOCATION.--Lat 38°47'52", long 122°48'05", in NW 1/4 NW 1/4 sec.19, T.11 N., R.8 W., Sonoma County, Hydrologic Unit 18010110, on left bank 400 ft downstream from unnamed tributary and 12 mi east of Cloverdale.

DRAINAGE AREA.--13.1 mi^2.

PERIOD OF RECORD.--October 1980 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,420 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 1 to Nov. 9 and Feb. 8. Records good except for estimated daily discharges, Oct. 1 to Nov. 9, which are poor. Diversion for industrial use 150 ft above station when flows are above 10 ft^3/s.

AVERAGE DISCHARGE.--5 years, 47.1 ft^3/s, 34,120 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,750 ft^3/s, Dec. 3, 1980, gage height, 6.38 ft (datum then in use); maximum gage height, 8.90 ft, Jan. 26 1983; minimum discharge, 0.08 ft^3/s, Aug. 31, 1983.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 27	1315	1,090	6.16	Feb. 8	0430	*1,830	*7.32

Minimum daily, 0.30 ft^3/s, Oct. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	.60	34	10	9.6	6.7	32	9.2	4.4	1.6	1.0	1.3
2	1.0	12	40	11	9.8	15	28	8.8	4.5	1.5	1.1	1.3
3	.80	3.5	41	11	9.6	15	26	8.5	4.0	1.4	1.2	1.3
4	1.2	1.0	31	11	9.1	14	23	8.3	3.8	1.5	1.2	1.3
5	1.4	2.0	29	11	8.9	16	25	8.0	3.7	1.3	1.1	1.1
6	1.3	3.1	23	11	9.0	20	23	7.4	3.6	1.3	1.1	.98
7	1.2	1.9	20	17	208	25	21	7.4	3.3	1.3	.96	6.5
8	1.1	1.8	19	11	673	23	19	7.1	3.5	1.2	.94	24
9	.90	3.8	15	11	141	19	17	6.8	3.5	1.4	1.1	9.5
10	.90	37	44	11	77	122	15	6.9	3.3	1.2	1.1	5.0
11	.70	107	25	11	49	64	14	6.9	3.2	1.1	1.0	3.0
12	1.1	291	21	12	35	40	14	6.9	2.9	1.1	.99	2.3
13	1.1	256	17	11	26	30	13	6.2	2.6	1.3	1.0	2.1
14	.70	62	14	10	20	21	12	5.9	2.6	1.2	1.2	2.0
15	.60	66	18	10	15	16	11	6.0	2.5	1.1	1.3	1.8
16	.60	152	13	11	11	15	11	5.4	2.6	1.0	1.1	1.7
17	.50	71	11	11	8.7	14	9.6	5.5	2.3	.97	1.1	1.6
18	.80	54	15	11	6.0	15	9.4	5.7	2.3	1.0	1.2	1.6
19	.80	33	11	10	5.3	15	9.2	5.5	2.3	.99	1.3	1.6
20	.80	28	11	10	5.4	14	10	5.1	2.0	.89	1.3	1.7
21	1.0	19	12	10	5.8	14	9.2	5.4	2.2	1.1	1.2	1.7
22	1.1	14	11	11	5.8	16	9.3	5.3	2.2	.96	1.3	1.6
23	1.2	16	11	11	6.2	16	8.6	4.8	2.1	1.1	1.3	1.6
24	1.2	85	10	11	5.6	17	7.8	4.8	1.9	1.1	1.4	1.6
25	1.3	30	10	10	6.9	14	8.9	4.7	2.2	.72	1.3	1.7
26	.80	21	16	10	8.7	160	11	4.6	2.0	.65	1.2	1.5
27	.30	339	11	10	7.9	115	11	4.6	1.8	1.0	1.2	1.5
28	.40	211	11	9.9	7.5	79	9.9	4.5	1.8	.84	1.1	1.3
29	.80	94	10	9.8	---	52	9.4	4.4	1.8	.97	.99	1.4
30	.60	53	11	9.7	---	39	9.4	4.3	1.7	1.2	1.1	1.4
31	.40	---	11	9.6	---	32	---	4.3	---	1.1	1.3	---
TOTAL	27.70	2068.70	576	334.0	1390.8	1073.7	436.7	189.2	82.6	35.09	35.68	86.98
MEAN	.89	69.0	18.6	10.8	49.7	34.6	14.6	6.10	2.75	1.13	1.15	2.90
MAX	1.4	339	44	17	673	160	32	9.2	4.5	1.6	1.4	24
MIN	.30	.60	10	9.6	5.3	6.7	7.8	4.3	1.7	.65	.94	.98
AC-FT	55	4100	1140	662	2760	2130	866	375	164	70	71	173

CAL YR 1984 TOTAL 7492.27 MEAN 20.5 MAX 339 MIN .30 AC-FT 14860
WTR YR 1985 TOTAL 6337.15 MEAN 17.4 MAX 673 MIN .30 AC-FT 12570

11464000 RUSSIAN RIVER NEAR HEALDSBURG, CA

LOCATION.--Lat 38°36'48", long 122°50'07", in Sotoyome Grant, Sonoma County, Hydrologic Unit 18010110, on left bank 2 mi east of Healdsburg, and 3.5 mi upstream from Dry Creek.

DRAINAGE AREA.--793 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 981: 1942. WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 77.01 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Apr. 28 to May 2, May 22-31 and Sept. 11. Records good. Several diversions for irrigation of about 17,800 acres 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 (station 11461800) 63 mi upstream.

AVERAGE DISCHARGE.--46 years, 1,471 ft^3/s, 1,066,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 71,300 ft^3/s, Dec. 23, 1964, gage height, 27.00 ft; maximum gage height, 30.0 ft, Feb. 28, 1940; minimum daily, 17 ft^3/s, Apr. 25, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1937 reached a stage of 30.8 ft, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,100 ft^3/s, Feb. 8, gage height, 12.29 ft; minimum daily, 160 ft^3/s, Oct. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	207	184	2170	712	575	396	1800	269	243	209	197	200
2	212	203	1700	692	562	372	1500	261	248	211	193	199
3	205	319	2690	671	521	351	1300	250	249	209	193	200
4	198	340	2420	658	506	339	1170	240	244	207	183	200
5	189	275	2010	645	514	356	1080	231	236	206	170	202
6	182	265	1630	634	549	561	1010	222	231	208	165	184
7	175	279	1420	775	698	1310	956	217	222	213	173	200
8	174	354	1280	778	12900	988	906	207	211	216	193	220
9	172	546	1190	716	6410	832	851	210	215	218	203	239
10	174	540	1570	733	4220	2290	804	211	216	216	222	241
11	185	1710	2150	726	3490	3270	779	213	215	223	225	235
12	186	4450	1520	695	2060	1700	746	209	223	225	221	233
13	173	8220	1270	674	1620	1260	703	202	229	227	207	207
14	165	4410	1140	660	1350	1010	679	197	218	227	193	206
15	160	2980	1110	657	1140	863	662	211	213	224	186	243
16	170	5100	1150	678	913	786	650	224	205	223	181	201
17	191	3340	1060	669	808	737	600	227	204	212	175	199
18	209	2960	1050	665	1090	680	485	228	212	212	179	200
19	196	2160	1060	657	1730	633	435	223	217	210	173	196
20	190	1610	1020	650	1500	595	405	202	227	214	168	194
21	182	1360	932	644	1390	561	400	218	229	222	163	193
22	173	1100	869	626	1360	531	385	214	229	222	168	191
23	174	945	845	586	1330	513	361	211	239	227	199	190
24	173	2560	828	566	891	523	337	215	242	223	209	193
25	170	2050	810	555	615	533	338	216	247	221	208	184
26	169	1400	871	543	526	1570	407	208	245	222	206	175
27	168	5010	915	535	466	5510	332	208	235	223	208	168
28	168	8810	836	529	428	4540	308	215	221	218	206	167
29	175	5240	785	545	---	3390	293	221	213	215	205	167
30	178	3350	747	577	---	2600	276	228	203	209	206	162
31	182	---	731	577	---	2080	---	239	---	205	203	---
TOTAL	5625	72070	39779	20028	50162	41680	20958	6847	6781	6717	5981	5989
MEAN	181	2402	1283	646	1792	1345	699	221	226	217	193	200
MAX	212	8810	2690	778	12900	5510	1800	269	249	227	225	243
MIN	160	184	731	529	428	339	276	197	203	205	163	162
AC-FT	11160	143000	78900	39730	99500	82670	41570	13580	13450	13320	11860	11880

CAL YR 1984 TOTAL 341184 MEAN 932 MAX 8810 MIN 80 AC-FT 676700
WTR YR 1985 TOTAL 282617 MEAN 774 MAX 12900 MIN 160 AC-FT 560600

11464000 RUSSIAN RIVER NEAR HEALDSBURG, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.
CHEMICAL ANALYSIS: Water years 1951-66, 1980.
WATER TEMPERATURES: Water years 1966 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1965 to current year.

INSTRUMENTATION.--Water temperature recorder since Oct. 1965, provides hourly recordings.

REMARKS.--No record due to recorder malfunction May 30 to June 3.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 28.0°C, July 13, 14, 1972, June 21, 1981, and July 13, 1983; minimum recorded, 5.0°C, Dec. 10, 11, 1972.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum recorded, 26.0°C, June 16, July 9-10; minimum recorded, 6.5°C, Dec. 19-20.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.5	16.5	15.0	11.5	12.0	11.0	9.0	8.0	9.0	7.5	14.0	12.0
2	20.5	16.0	15.5	14.0	11.5	11.0	8.5	7.5	9.0	7.5	12.0	10.0
3	19.5	17.5	15.0	13.5	11.5	11.0	8.0	7.0	9.0	7.5	12.5	9.0
4	20.5	16.5	14.5	12.5	11.0	10.0	8.5	7.0	9.0	7.5	13.0	11.0
5	21.5	18.5	14.5	12.5	12.0	10.5	9.0	8.0	9.0	7.5	10.5	9.5
6	21.5	17.5	15.0	13.0	12.0	10.5	9.5	8.5	9.0	7.5	10.5	9.0
7	22.0	17.5	14.0	13.0	11.5	10.0	10.0	9.0	10.5	9.5	10.5	8.0
8	21.0	18.0	14.0	12.5	12.0	10.5	9.5	8.5	10.0	8.5	11.5	8.5
9	20.5	16.5	13.5	12.5	12.5	11.5	10.5	9.5	9.0	7.5	13.0	10.0
10	18.5	15.5	13.5	13.0	12.5	12.0	9.5	8.5	9.0	7.0	13.0	10.5
11	18.5	16.0	13.5	12.5	12.5	11.0	9.0	8.0	9.0	7.5	12.5	9.5
12	19.0	16.0	13.0	13.0	11.5	10.5	9.0	8.0	11.5	9.0	12.0	11.0
13	20.0	17.5	14.0	13.0	10.5	9.0	8.5	7.5	12.0	10.0	14.5	11.5
14	18.0	15.5	13.5	12.5	10.0	8.5	8.5	7.5	12.0	10.0	14.5	12.0
15	16.5	13.0	13.0	13.0	10.0	9.0	8.5	8.0	12.5	10.0	14.0	12.5
16	14.0	12.5	13.5	13.0	9.0	8.0	9.0	8.0	12.5	10.5	13.5	12.5
17	15.0	11.5	13.5	12.0	9.0	8.0	9.0	8.0	12.5	11.0	13.5	12.5
18	14.5	12.0	14.0	13.0	8.5	7.5	9.0	8.0	13.0	11.0	15.0	12.5
19	16.0	13.5	13.5	12.0	8.0	6.5	9.0	8.0	11.0	9.5	15.5	13.0
20	16.0	13.0	13.5	12.5	8.5	6.5	9.0	9.0	11.0	8.5	16.0	13.0
21	16.5	13.0	12.5	11.5	8.5	7.0	9.0	8.5	12.0	9.0	14.5	12.0
22	16.5	13.0	13.0	11.0	8.5	7.0	9.5	8.5	12.5	10.0	14.5	11.5
23	17.5	13.0	12.5	11.5	8.5	7.0	9.5	8.5	13.0	10.5	15.5	12.0
24	18.5	14.0	12.5	11.0	8.5	8.0	9.0	8.5	13.0	10.5	14.5	12.5
25	18.5	15.0	11.5	10.0	8.5	8.0	9.0	8.5	14.0	11.5	14.0	11.0
26	17.5	14.5	11.0	9.5	9.0	8.5	10.0	9.0	14.0	11.5	12.0	10.0
27	15.5	12.5	12.0	10.5	9.0	8.0	9.5	8.0	14.5	12.5	10.0	9.0
28	14.5	12.5	12.0	11.5	8.5	7.5	10.0	9.0	14.5	12.0	11.5	9.0
29	16.5	14.5	11.5	11.0	8.5	7.5	9.5	8.0	---	---	12.5	9.0
30	16.0	13.5	12.5	11.0	9.5	8.0	9.0	7.5	---	---	14.0	10.5
31	15.0	12.0	---	---	9.5	8.5	9.0	7.5	---	---	15.5	11.5
MONTH	22.0	11.5	15.5	9.5	12.5	6.5	10.5	7.0	14.5	7.0	16.0	8.0

11464000 RUSSIAN RIVER NEAR HEALDSBURG, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	13.0	21.5	16.0	---	---	24.5	21.5	23.5	21.5	22.5	21.0
2	17.5	14.0	21.5	16.0	---	---	25.0	23.0	24.5	22.0	22.5	21.0
3	18.0	14.5	21.0	16.5	---	---	25.0	22.5	25.0	23.0	22.5	21.0
4	18.0	15.0	21.0	15.5	22.0	20.0	25.5	23.0	24.5	23.0	22.0	20.5
5	18.5	15.0	21.5	15.5	23.0	21.0	25.5	23.0	24.5	23.0	21.0	20.5
6	17.5	15.0	21.0	15.5	24.0	21.5	25.0	23.0	24.0	22.5	20.5	19.5
7	18.0	15.0	21.0	15.0	24.5	22.0	25.0	22.5	24.5	22.5	20.0	19.5
8	18.5	15.0	21.0	15.0	24.5	22.5	25.5	23.5	24.0	22.5	20.5	19.0
9	17.5	15.5	21.0	15.0	25.0	23.0	26.0	24.0	24.0	22.5	20.5	19.0
10	17.0	15.0	19.5	15.5	25.0	22.5	26.0	24.0	23.0	21.5	19.5	18.5
11	18.5	15.5	20.5	14.5	25.0	23.0	24.5	23.0	23.0	21.5	19.5	18.0
12	19.0	15.5	21.5	15.0	25.0	23.0	24.5	22.0	23.0	21.5	20.5	16.5
13	20.0	16.0	22.5	16.0	25.0	22.5	25.0	22.5	22.5	21.0	20.5	18.0
14	20.5	17.0	23.0	16.5	24.5	22.0	25.0	23.0	22.5	21.0	21.0	17.5
15	18.5	15.5	23.0	17.0	25.5	22.0	25.0	22.5	22.5	21.0	21.0	17.0
16	15.5	14.5	19.0	17.0	26.0	24.0	24.5	22.5	22.5	21.0	22.0	17.5
17	17.0	14.5	18.5	16.5	25.0	23.0	24.0	22.5	22.0	20.5	20.5	18.0
18	18.0	14.0	21.5	15.0	24.0	22.0	24.0	22.0	21.5	19.5	21.5	16.5
19	17.0	14.0	22.5	16.5	23.5	22.0	23.5	22.0	22.5	21.0	21.5	16.5
20	15.0	13.5	23.0	16.5	22.5	21.0	23.5	21.0	22.5	21.0	22.0	17.5
21	16.5	14.0	23.0	17.5	23.5	21.5	22.0	20.0	22.5	21.5	22.5	17.0
22	19.0	14.0	23.5	17.5	23.0	21.5	24.0	21.0	22.5	21.0	23.0	17.5
23	19.5	15.0	24.0	19.5	23.0	21.0	24.5	22.0	22.5	21.0	22.5	18.0
24	18.5	14.5	23.5	20.5	23.0	21.0	25.0	22.5	23.5	21.5	23.0	18.0
25	18.0	13.5	22.5	20.0	23.5	20.5	24.5	23.0	23.0	22.0	23.0	18.0
26	18.5	13.5	21.5	19.5	24.5	22.0	24.5	22.5	23.0	21.5	22.5	18.0
27	20.5	15.5	20.0	18.5	24.5	22.0	24.5	22.5	23.0	21.5	21.5	19.0
28	20.5	16.0	18.5	17.5	24.0	22.5	24.0	22.0	22.5	20.5	21.0	18.0
29	21.0	16.0	19.0	16.5	24.0	21.5	22.5	21.5	22.0	20.5	19.0	17.0
30	22.0	16.0	---	---	23.5	21.5	23.0	21.0	21.0	20.0	19.5	15.0
31	---	---	---	---	---	---	23.0	22.0	22.0	20.0	---	---
MONTH	22.0	13.0	24.0	14.5	---	---	26.0	20.0	25.0	19.5	23.0	15.0

11464900 LAKE SONOMA NEAR GEYSERVILLE, CA

LOCATION.--Lat 38°43'21", long 123°00'36", in SW 1/4 SE 1/4 sec.7, T.10 N., R.10 W., Sonoma County, Hydrologic Unit 18010110, in reservoir control tower 400 ft upstream of Warm Springs Dam, and 6.0 mi west of Geyserville.

DRAINAGE AREA.--130 mi^2.

PERIOD OF RECORD.--October 1983 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Reservoir is formed by earthfill dam, storage began in October 1983. Usable capacity 381,000 acre-ft between elevations 221.00 ft invert of lowest outlet tunnel and 495.00 ft spillway crest. Water is released down Dry Creek for domestic use and fisheries. Records, including current year extremes, represent contents at 2400 hrs.

COOPERATION.--Records were provided by Corps of Engineers, not rounded to Geological Survey standards.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 73,968 acre-ft, Apr. 27, 1985; elevation, 359.00 ft; minimum, 3,547 acre-ft, Oct. 29, Nov. 1, 2, 1983, elevation, 245.28 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 73,968 acre-ft, Apr. 27, elevation, 359.00 ft; minimum, 3,626 acre-ft, Nov. 2, elevation, 245.28 ft.

Capacity table (elevation, in feet NGVD, and contents, in acre-feet)

221	111	280	14,286	360	75,150	440	217,014
230	1,151	300	24,025	380	101,566	460	269,406
240	2,621	320	37,003	400	133,654	480	329,768
260	7,265	340	53,833	420	171,956	495	380,681

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4522	3639	35463	44303	43722	54194	70009	73873	73299	71641	69591	66744
2	4479	3626	36210	44370	43689	54318	70258	73873	73288	71572	69523	66678
3	4450	3755	36878	44403	43599	54385	70622	73885	73276	71515	69455	66601
4	4411	3771	37360	44395	43533	54461	70930	73920	73253	71457	69388	66481
5	4371	3776	37770	44361	43442	54653	71136	73920	73229	71400	69309	66349
6	4335	3851	38086	44420	43344	55056	71343	73909	73171	71331	69230	66230
7	4299	3843	38328	44470	44545	55578	71595	73909	73112	71274	69152	66164
8	4263	3913	38563	44511	50291	55917	71779	73909	73066	71205	69073	66164
9	4226	3841	38761	44486	51589	56200	72056	73909	73008	71148	68804	66153
10	4215	4631	39297	44495	52386	57489	72264	73897	72961	71079	68636	66088
11	4184	6191	39916	44511	53106	58346	72577	73885	72833	71022	68491	66023
12	4153	8852	40345	44520	53398	58888	72763	73909	72740	70953	68380	65957
13	4120	12885	40643	44520	53719	59322	72914	73897	72682	70896	68291	65881
14	4085	13593	40896	44520	53833	59677	72984	73897	72624	70828	68191	65827
15	4050	14398	41205	44520	53899	59983	73043	73897	72577	70771	68090	65762
16	4046	17510	41427	44495	53909	60248	73124	73768	72542	70702	67990	65707
17	4035	18942	41603	44470	53890	60504	73182	73721	72508	70645	67879	65642
18	4016	20181	42391	44461	53852	60741	73323	73662	72473	70577	67757	65577
19	3992	20820	42634	44436	53852	60937	73510	73651	72438	70497	67603	65502
20	3966	21309	42902	44403	53861	61112	73604	73592	72369	70418	67492	65426
21	3939	21619	43237	44319	53861	61267	73709	73604	72311	70338	67448	65361
22	3911	21821	43385	44286	53861	61412	73697	73580	72253	70270	67393	65296
23	3881	22050	43451	44211	53852	61536	73826	73522	72230	70202	67326	65231
24	3851	23717	43533	44186	53738	61734	73850	73498	72184	70134	67271	65112
25	3822	24359	43607	44087	53776	61869	73956	73428	72184	70066	67205	65005
26	3792	24798	43747	44045	53852	64243	73909	73393	72091	69998	67150	64865
27	3759	29602	43879	43979	53975	66044	73968	73370	72022	69930	67095	64768
28	3736	32693	43979	43913	54051	67393	73779	73440	71975	69862	67029	64672
29	3713	33994	44103	43838	---	68257	73838	73381	71895	69794	66952	64596
30	3688	34869	44186	43772	---	68950	73862	73323	71722	69726	66886	64532
31	3663	---	44261	43731	---	69512	---	73323	---	69658	66809	---
MAX	4522	34869	44261	44520	54051	69512	73968	73920	73299	71641	69591	66744
MIN	3663	3626	35463	43731	43344	54194	70009	73323	71722	69658	66809	64532
a	245.46	317.06	329.24	328.60	340.23	355.13	358.91	358.44	357.07	355.26	352.70	350.60
b	-903	+31206	+9392	-530	+10320	+15461	+4350	-539	-1601	-2064	-2849	-2277

CAL YR 1984 b +7869
WTR YR 1985 b +59966

a Elevation, in feet NGVD, at end of month.
b Change in contents, in acre-ft.

11465000 DRY CREEK BELOW WARM SPRINGS DAM, NEAR GEYSERVILLE, CA

LOCATION.--Lat 38°43'11", long 122°59'58", in Tzabaco Grant, Sonoma County, Hydrologic Unit 18010110, on right bank of outlet channel, 500 ft downstream from Warm Springs Dam, 500 ft upstream from county road bridge and 5.0 mi west of Geyserville.

DRAINAGE AREA.--131 mi^2.

WATER-DISCHARGE RECORD

PERIOD OF RECORD.--October 1939 to September 1942 (published as "Dry Creek near Healdsburg"), October 1981 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 188 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Sept. 30, 1942, nonrecording gage at site 500 ft downstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 3. Records good. Flow regulated by Warm Springs Dam, 500 ft upstream.

EXTREMES FOR PERIOD OF RECORD.--Flood of December 1937 reached a stage of 21.8 ft from floodmarks, discharge about 25,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 250 ft^3/s, Nov. 13, gage height, 5.60 ft; minimum daily, 20 ft^3/s, several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	22	82	76	78	26	22	24	25	25	26	40
2	24	22	80	77	78	26	22	24	24	24	23	40
3	23	22	80	78	78	26	22	24	24	25	24	40
4	23	22	81	78	78	27	22	24	24	25	24	40
5	21	22	83	78	78	27	22	24	24	26	35	40
6	20	22	87	78	77	27	21	24	24	28	43	40
7	20	61	83	78	79	25	21	24	25	28	49	40
8	20	104	83	78	80	25	21	24	24	28	60	41
9	20	103	83	78	75	26	21	24	24	28	77	41
10	20	80	84	78	75	30	21	24	24	28	75	38
11	20	43	84	78	76	27	22	24	40	28	71	37
12	20	36	84	78	75	27	23	24	50	28	54	36
13	20	81	85	78	75	27	22	23	31	28	42	36
14	20	107	85	78	127	28	22	24	22	28	41	36
15	20	102	82	78	149	25	22	39	22	28	41	36
16	20	90	81	78	149	20	21	51	22	28	42	36
17	22	88	81	78	149	22	21	35	22	28	42	38
18	25	89	82	78	149	25	24	24	22	28	42	41
19	24	84	82	78	151	25	26	24	22	28	49	41
20	23	83	82	77	153	26	26	25	22	28	56	41
21	23	83	82	77	151	24	25	25	23	28	45	41
22	23	83	82	77	151	25	25	25	23	28	50	40
23	23	84	82	77	151	25	25	25	23	28	38	41
24	23	87	82	77	78	25	25	25	23	26	28	41
25	23	86	82	77	24	25	25	25	23	26	28	39
26	23	83	76	77	24	27	24	25	24	26	28	38
27	23	91	72	77	25	22	24	25	24	26	28	38
28	22	112	72	78	25	21	24	25	24	26	28	38
29	22	130	74	78	---	21	24	25	24	26	33	38
30	22	90	76	78	---	21	24	25	25	27	40	38
31	22	---	76	78	---	22	---	25	---	26	40	---
TOTAL	678	2212	2510	2407	2658	775	689	808	753	838	1302	1170
MEAN	21.9	73.7	81.0	77.6	94.9	25.0	23.0	26.1	25.1	27.0	42.0	39.0
MAX	25	130	87	78	153	30	26	51	50	28	77	41
MIN	20	22	72	76	24	20	21	23	22	24	23	36
AC-FT	1340	4390	4980	4770	5270	1540	1370	1600	1490	1660	2580	2320

CAL YR 1984	TOTAL	51762.3	MEAN	141	MAX	2650	MIN	6.3	AC-FT 102700
WTR YR 1985	TOTAL	16800.0	MEAN	46.0	MAX	153	MIN	20	AC-FT 33320

11465000 DRY CREEK BELOW WARM SPRINGS DAM, NEAR GEYSERVILLE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
WATER TEMPERATURES: November 1981 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: November 1981 to current year.

INSTRUMENTATION.--Temperature recorder.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 27.0°C July 11, August 5, 6, 8, 12, 15, 16, 1983; minimum recorded, 6.5°C Jan. 20, 1982.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum recorded, 20.0°C, Oct. 1, 6, 7; minimum recorded, 8.0°C, several days.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.0	19.0	15.0	14.0	11.0	10.5	8.5	8.5	8.5	8.5	9.5	8.5
2	19.5	18.5	15.0	14.5	10.5	10.5	9.0	8.5	8.5	8.5	9.5	8.5
3	19.5	18.5	15.0	14.0	11.0	10.5	8.5	8.5	8.5	8.5	9.5	8.5
4	19.5	18.5	15.0	14.0	10.5	10.5	8.5	8.5	8.5	8.0	9.5	8.5
5	19.5	19.0	14.5	14.0	11.0	10.5	8.5	8.5	8.5	8.5	9.0	8.5
6	20.0	19.0	14.5	14.0	11.0	10.5	8.5	8.5	8.5	8.5	9.0	8.0
7	20.0	19.0	14.0	13.5	11.0	10.5	8.5	8.5	9.0	8.5	9.5	8.5
8	19.5	19.0	14.0	13.5	10.5	10.5	9.0	8.5	9.0	8.5	9.5	8.5
9	19.5	18.5	13.5	13.5	10.5	10.5	8.5	8.5	8.5	8.0	10.0	9.0
10	19.0	18.5	13.5	13.0	10.5	10.5	8.5	8.5	8.5	8.0	10.0	9.0
11	19.0	18.0	13.0	13.0	10.5	10.0	8.5	8.5	8.5	8.5	10.5	9.0
12	18.5	18.0	13.0	12.5	10.5	10.0	8.5	8.5	8.5	8.5	10.0	9.0
13	19.0	18.0	13.0	12.5	10.5	10.0	8.5	8.5	8.5	8.5	10.0	9.0
14	18.0	17.0	12.5	12.5	10.0	10.0	8.5	8.5	8.5	8.5	10.0	9.0
15	17.5	16.5	12.5	12.5	10.5	10.0	8.5	8.5	8.5	8.0	10.0	9.0
16	17.0	16.0	12.5	12.5	10.0	10.0	8.5	8.5	8.5	8.5	9.5	9.0
17	16.5	15.5	12.5	12.5	10.0	9.5	8.5	8.5	8.5	8.5	9.5	9.0
18	16.0	15.5	12.5	12.5	9.5	9.5	8.5	8.5	8.5	8.5	10.5	9.0
19	16.0	15.5	12.5	12.5	9.5	9.0	8.5	8.5	8.5	8.5	10.0	9.0
20	16.5	15.0	12.5	12.0	10.0	9.5	8.5	8.5	8.5	8.5	10.0	9.0
21	16.0	15.5	12.0	12.0	10.0	9.5	8.5	8.5	8.5	8.5	10.0	9.0
22	16.0	15.0	12.0	12.0	10.0	9.5	8.5	8.5	8.5	8.5	10.0	8.5
23	16.0	14.5	12.0	11.5	9.5	9.0	8.5	8.5	8.5	8.5	10.5	9.0
24	16.5	15.0	11.5	11.5	9.5	9.0	8.5	8.5	9.5	8.5	10.0	9.0
25	16.5	15.5	11.5	11.0	9.0	9.0	8.5	8.5	9.5	8.5	10.0	8.5
26	16.5	15.5	11.5	11.0	9.0	9.0	8.5	8.5	9.5	8.5	9.5	8.5
27	15.5	14.5	11.0	10.5	9.0	9.0	8.5	8.5	9.5	8.5	9.5	9.0
28	15.0	15.0	11.0	10.5	9.0	8.5	8.5	8.5	9.5	8.5	10.0	8.5
29	15.5	15.0	10.5	10.5	8.5	8.5	8.5	8.0	---	---	10.5	8.5
30	15.5	14.5	10.5	10.5	9.0	8.5	8.5	8.0	---	---	10.5	9.0
31	15.0	14.0	---	---	9.0	8.5	8.5	8.5	---	---	11.0	9.5
MONTH	20.0	14.0	15.0	10.5	11.0	8.5	9.0	8.0	9.5	8.0	11.0	8.0

11465000 DRY CREEK BELOW WARM SPRINGS DAM, NEAR GEYSERVILLE, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	9.5	11.0	10.0	11.0	10.5	11.0	10.5	12.0	10.0	11.5	10.5
2	11.0	9.5	11.5	9.5	11.5	10.0	11.5	10.5	12.0	11.0	11.5	10.5
3	11.5	9.5	11.0	10.0	11.5	10.5	11.5	10.5	12.5	11.0	11.5	10.5
4	11.5	9.5	11.0	9.5	12.0	10.5	11.5	10.5	12.0	11.0	11.0	10.5
5	11.5	9.5	11.0	10.0	12.0	11.0	11.5	10.5	11.5	10.5	11.0	10.5
6	10.5	10.0	11.0	10.0	12.0	11.0	11.5	10.5	11.0	10.5	11.0	10.5
7	11.5	10.0	12.0	9.5	12.0	11.5	11.5	11.0	11.0	10.5	11.0	10.5
8	11.0	9.5	11.0	9.5	12.0	11.0	12.0	11.0	11.0	10.5	11.5	10.5
9	11.0	10.0	11.5	9.5	12.0	11.0	12.0	11.0	10.5	10.5	11.0	10.5
10	11.0	10.0	11.0	9.5	12.0	11.0	12.0	11.0	10.5	10.5	11.0	10.5
11	11.5	10.0	11.0	9.5	11.0	10.5	11.5	10.5	10.5	10.5	11.0	10.0
12	11.5	9.5	11.5	9.5	10.5	10.0	11.5	10.5	11.0	10.5	11.0	10.0
13	11.5	9.5	11.5	10.0	12.0	10.0	11.5	10.5	11.0	10.5	11.0	10.5
14	11.5	10.0	11.5	10.0	12.0	11.0	11.5	10.5	11.0	10.5	11.5	10.0
15	10.5	9.5	10.5	10.0	12.0	11.0	11.5	10.5	11.0	10.5	11.0	10.5
16	10.0	9.5	10.0	10.0	12.0	11.0	11.5	10.5	11.0	10.5	11.0	10.5
17	11.0	9.5	10.5	10.0	12.0	11.0	11.5	10.5	11.0	10.5	11.0	10.5
18	11.0	9.5	11.5	9.5	11.5	11.0	11.5	11.0	11.0	10.0	11.0	10.0
19	10.5	9.5	11.5	10.0	11.5	11.0	11.5	11.0	11.0	10.0	11.0	10.0
20	10.0	9.5	12.0	10.0	11.5	11.0	11.0	10.5	11.0	10.0	11.0	10.5
21	10.5	9.5	11.5	10.0	11.5	11.0	11.0	10.5	18.0	10.0	11.0	10.0
22	11.0	9.5	12.0	10.0	11.5	10.5	11.5	10.5	11.0	10.5	11.0	10.5
23	11.0	9.5	12.0	10.5	11.5	10.5	11.5	11.0	11.5	10.5	11.0	10.5
24	11.0	9.5	12.0	10.5	11.5	11.0	12.0	10.5	11.5	10.5	11.0	10.5
25	10.5	9.5	11.5	10.5	11.5	11.0	12.0	11.0	11.5	10.5	11.0	10.5
26	11.0	9.5	11.0	10.5	11.5	10.5	12.0	11.0	11.5	10.5	11.0	10.5
27	11.5	10.0	11.0	10.5	11.0	10.5	12.0	11.0	11.5	10.5	11.0	10.5
28	11.0	10.0	10.5	10.0	11.5	10.5	11.5	11.0	11.5	10.5	11.0	10.5
29	11.0	10.0	11.0	9.5	11.5	10.5	11.5	11.0	11.5	10.0	11.0	10.5
30	11.5	10.0	11.5	10.0	11.0	10.5	12.0	11.0	11.0	10.5	11.0	10.0
31	---	---	11.5	10.5	---	---	12.0	10.5	11.0	10.5	---	---
MONTH	11.5	9.5	12.0	9.5	12.0	10.0	12.0	10.5	18.0	10.0	11.5	10.0
YEAR	20.0	8.0										

11465150 PENA CREEK NEAR GEYSERVILLE, CA

LOCATION.--Lat 38°42'02", long 122°58'16", in sec. 21, T.10 N., R.10 W., Sonoma County, Hydrologic Unit 18010110, on right bank, on upstream side of bridge on West Dry Creek Road, 1.1 mi upstream from mouth, and 3.7 mi west of Geyserville.

DRAINAGE AREA.--22.3 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 195 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 7-10 and Dec. 14-19. Records good. No regulation; some small diversion for irrigation of less than 200 acres in summer months.

AVERAGE DISCHARGE.--7 years, 53.1 ft^3/s, 38,470 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,710 ft^3/s, Jan. 26, 1983, gage height, 9.01 ft; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 950 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 13	0015	1,100	5.76	Feb. 8	0515	1,250	5.98
Nov. 27	1330	*1,500	*6.29				

No flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	49	10	4.9	9.5	43	4.0	.14			
2		7.1	49	10	4.9	8.8	38	3.7	.13			
3		4.6	52	10	4.9	8.1	34	3.3	.13			
4		.99	43	10	4.7	8.1	31	2.9	.06			
5		.25	39	10	4.5	12	27	2.5	.02			
6		7.5	36	10	4.5	31	25	2.4	0			
7		3.4	34	14	49	54	22	2.3	0			
8		5.7	32	13	513	39	20	2.1	0			
9		3.6	31	12	135	32	18	2.0	0			
10		19	35	12	83	116	16	1.9	0			
11		57	42	11	61	109	14	1.9	0			
12		264	37	11	49	72	13	1.5	0			
13		331	35	11	41	54	13	1.3	0			
14		52	31	11	37	43	12	1.1	0			
15		52	32	10	33	37	11	1.0	0			
16		116	29	9.1	29	33	11	.92	0			
17		68	26	8.2	26	29	10	1.1	0			
18		56	22	8.2	24	27	9.0	1.1	0			
19		35	19	7.9	21	23	8.3	.74	0			
20		29	17	7.8	19	20	8.1	.52	0			
21		27	15	7.4	18	17	9.3	.45	0			
22		26	13	7.4	17	15	7.7	.36	0			
23		26	13	7.4	15	13	6.4	.09	0			
24		87	12	7.3	13	13	5.5	.02	0			
25		46	11	6.9	12	11	6.1	.17	0			
26		33	18	5.7	12	107	5.8	.20	0			
27		473	15	5.6	11	107	4.6	.32	0			
28		248	13	5.8	9.9	84	4.4	.33	0			
29		106	12	6.1	---	68	4.3	.38	0			
30		67	11	5.7	---	57	4.2	.27	0			
31		---	11	5.3	---	49	---	.20	---			
TOTAL	0	2251.14	834	276.8	1256.3	1306.5	441.7	41.07	0.48	0	0	0
MEAN	0	75.0	26.9	8.93	44.9	42.1	14.7	1.32	.016	0	0	0
MAX	0	473	52	14	513	116	43	4.0	.14	0	0	0
MIN	0	0	11	5.3	4.5	8.1	4.2	.02	0	0	0	0
AC-FT	0	4470	1650	549	2490	2590	876	81	1.0	0	0	0

CAL YR 1984	TOTAL	8243.32	MEAN	22.5	MAX	473	MIN	0	AC-FT	16350
WTR YR 1985	TOTAL	6407.99	MEAN	17.6	MAX	513	MIN	0	AC-FT	12710

11465150 PENA CREEK NEAR GEYSERVILLE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1979 to current year.
WATER TEMPERATURES: Water years 1979 to current year.
SEDIMENT RECORDS: Water years 1979 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1978 to current year.
SEDIMENT RECORDS: October 1978 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily, 5,000 mg/L, Dec. 25, 1983; minimum daily mean, no flow for many days in 1979-85.
SEDIMENT LOADS: Maximum daily, 32,600 tons, Jan. 26, 1983; minimum daily, 0 tons many days n 1979-85.

EXTREMES FOR CURRENT YEAR(storm season only).--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 977 mg/L, Nov. 27; minimum daily mean,0 mg/L Nov. 1, Dec. 16-18.
SEDIMENT LOADS: Maximum daily, 2,400 tons, Nov. 27; minimum daily, 0 ton several days.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	9.5	---	---	---	11.0	---				
2		---	---	---	7.0	---	---	---				
3		---	---	---	---	---	---	14.0				
4		---	---	4.5	---	---	---	---				
5		---	---	---	---	7.0	---	---				
6		13.0	---	7.0	---	7.5	---	---				
7		---	---	---	10.0	---	---	17.5				
8		---	10.5	7.0	9.5	---	---	---				
9		---	---	---	---	---	---	---				
10		12.5	---	---	---	10.0	14.0	18.0				
11		---	---	8.0	---	9.0	---	---				
12		13.5	---	---	9.5	---	---	18.5				
13		13.0	---	8.0	---	---	---	---				
14		---	---	---	---	---	---	12.0				
15		12.0	9.0	6.0	8.0	9.0	---	---				
16		---	---	---	---	---	13.5	---				
17		---	8.0	---	11.5	---	---	13.5				
18		---	---	---	---	---	---	---				
19		---	5.0	8.0	8.0	---	12.0	17.0				
20		11.5	---	---	---	---	---	---				
21		---	---	7.0	---	---	12.0	14.5				
22		---	---	---	---	10.0	---	---				
23		---	---	---	12.5	---	12.5	---				
24		11.0	---	---	---	11.0	---	---				
25		---	---	---	---	---	---	---				
26		---	---	---	9.0	8.5	---	---				
27		10.0	---	9.0	---	---	---	17.5				
28		---	5.5	9.0	---	---	17.5	---				
29		---	---	6.0	---	---	---	13.0				
30		---	8.5	---	---	---	14.0	---				
31		---	---	---	---	---	---	15.0				

11465150 PENA CREEK NEAR GEYSERVILLE, CA--Continued

SUSPENDED-SEDIMENT, NOVEMBER 1984 TO MAY 1985

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1			0	.00	4	.53	3	.08	1	.01	1	.03
2			112	6.0	4	.53	4	.11	1	.01	1	.02
3			100	1.2	3	.42	4	.11	1	.01	1	.02
4			5	.01	3	.35	4	.11	1	.01	1	.02
5			3	.00	2	.21	2	.05	1	.01	22	1.1
6			64	1.3	2	.19	1	.03	1	.01	52	8.5
7			9	.08	1	.09	1	.04	167	109	40	5.8
8			5	.08	1	.09	1	.04	720	1580	7	.74
9			3	.03	1	.08	1	.03	36	9.5	5	.43
10			51	3.4	1	.09	1	.03	6	1.3	324	129
11			84	15	1	.11	1	.03	6	.99	56	16
12			517	632	1	.10	2	.06	6	.66	9	.97
13			228	481	1	.09	2	.06	4	.44	6	.58
14			15	2.1	1	.08	2	.06	3	.30	5	.46
15			25	5.3	1	.09	1	.03	2	.18	4	.40
16			60	21	0	.00	1	.02	2	.16	4	.36
17			8	1.6	0	.00	1	.02	2	.14	4	.31
18			17	2.6	0	.00	1	.02	2	.13	4	.29
19			5	.47	1	.05	1	.02	1	.06	4	.25
20			3	.23	1	.05	1	.02	1	.05	4	.22
21			2	.15	1	.04	1	.02	1	.05	4	.18
22			2	.14	2	.07	1	.02	1	.05	4	.16
23			2	.14	2	.07	1	.02	1	.04	3	.11
24			37	14	2	.06	1	.02	1	.04	2	.07
25			3	9.6	2	.06	1	.02	1	.03	2	.06
26			2	.18	3	.15	1	.02	1	.03	233	150
27			977	2400	3	.12	1	.02	1	.03	110	34
28			212	142	3	.11	2	.03	1	.03	11	2.5
29			9	2.6	3	.10	1	.02	---	---	6	1.1
30			4	.72	3	.09	1	.02	---	---	5	.77
31			---	---	3	.09	1	.01	---	---	4	.66
TOTAL			---	3742.93	---	4.11	---	1.19	---	1703.27	---	355.11

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	4	.46	1	.01								
2	4	.41	1	.01								
3	4	.37	1	.01								
4	4	.33	1	.01								
5	4	.29	1	.01								
6	3	.20	1	.01								
7	3	.18	1	.02								
8	3	.16	2	.02								
9	3	.15	3	.02								
10	3	.13	4	.02								
11	3	.11	4	.02								
12	3	.11	3	.01								
13	3	.11	2	.01								
14	3	.10	2	.01								
15	3	.09	2	.01								
16	3	.09	1	.00								
17	3	.08	1	.00								
18	2	.05	2	.01								
19	2	.04	2	.00								
20	2	.04	2	.00								
21	3	.08	1	.00								
22	2	.04	1	.00								
23	1	.02	1	.00								
24	1	.01	2	.00								
25	1	.02	2	.00								
26	2	.03	2	.00								
27	2	.02	2	.00								
28	2	.02	2	.00								
29	2	.02	1	.00								
30	1	.01	1	.00								
31	---	---	2	.00								
TOTAL	---	3.77	---	0.21								

TOTAL LOAD PER PERIOD: 5810.59 TONS

SUMMARY OF WATER AND SEDIMENT DISCHARGE, NOVEMBER 1984 TO MAY 1985

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
NOVEMBER 1984	2251.14	3742.93	620	4360
DECEMBER ...	834.00	4.11	1	5
JANUARY 1985	276.80	1.19	0	1
FEBRUARY ...	1256.30	1703.27	292	2000
MARCH	1306.50	355.11	62	417
APRIL	441.70	3.77	0	4
MAY	41.07	.21	0	0
PERIOD	6407.51	5810.59	975	6787

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
MAR 06...	1650	24	7.5	101	6.5	--	--	--
MAR 10...	1350	116	10.0	374	117	44	55	67

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
MAR 06...	--	--	97	98	99	100	--
MAR 10...	78	85	90	95	98	99	100

11465150 PENA CREEK NEAR GEYSERVILLE, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	STREAM-FLOW, INSTAN-TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
NOV								
13...	1200	13.0	5	161	0	0	1	4
SEP								
28...	1200	--	4	0.0	0	0	1	3

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
NOV							
13...	9	16	27	41	62	85	100
SEP							
28...	6	10	17	27	46	74	100

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	STREAM-FLOW, INSTAN-TANEOUS (CFS)	STREAM WIDTH (FT)	SEDI-MENT DIS-CHARGE, BEDLOAD (TONS/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
NOV							
13...	1130	13.0	20	166	66.0	7.5	0

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM
NOV							
13...	6	19	33	51	72	92	100

11465200 DRY CREEK NEAR GEYSERVILLE, CA

LOCATION.--Lat 38°41'55", long 122°57'25", in Tzabaco Grant, Sonoma County, Hydrologic Unit 18010110, on left bank pier of bridge 0.3 mi downstream from Pena Creek, and 3 mi west of Geyserville.

DRAINAGE AREA.--162 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1959 to current year.

REVISED RECORDS.--WRD CA-65-1: 1962(M), 1963(M).

GAGE.--Water-stage recorder. Datum of gage is 156.40 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1964, at datum 4.00 ft higher. Oct. 1, 1964, to Apr. 8, 1976, datum 3.00 ft higher. Apr. 9, 1976 to Sept. 30, 1982 at datum 2.00 ft higher.

REMARKS.--Estimated daily discharges: Dec. 23 to Jan. 31, March 26, 27. Records good. Small diversions above station for irrigation of about 1,200 acres in summer. Flow regulated by Warm Springs Dam (station 11464900) 3.0 miles upstream beginning October 1983.

AVERAGE DISCHARGE.--24 years (prior to construction of Warm Springs Dam, water years 1959-1983), 342 ft^3/s, 248,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,400 ft^3/s, Jan. 31, 1963, gage height, 20.50 ft, present datum; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,950 ft^3/s, Nov. 27, gage height, 7.14 ft; minimum daily, 19 ft^3/s, several days in October.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	20	165	88	93	45	79	33	26	25	29	37
2	25	22	159	86	92	43	74	33	28	25	25	37
3	22	22	168	87	91	42	67	32	29	25	24	37
4	21	21	143	87	88	46	66	32	29	24	24	37
5	21	21	139	87	88	48	61	32	29	25	29	37
6	21	24	134	87	87	82	57	33	29	25	40	36
7	21	48	123	89	146	121	54	33	29	25	45	37
8	21	101	120	92	827	86	52	33	28	25	55	38
9	21	102	118	92	300	70	49	31	29	25	87	37
10	22	103	133	92	208	263	48	31	29	24	101	35
11	23	103	146	89	172	255	46	31	39	24	100	33
12	20	315	135	89	152	166	46	31	50	24	88	33
13	19	463	130	91	141	127	44	31	40	24	70	33
14	19	140	126	91	179	110	42	31	28	24	69	32
15	19	127	121	91	204	93	41	42	26	24	69	33
16	21	196	118	92	201	74	40	57	25	24	63	33
17	20	131	114	93	199	69	37	49	25	24	47	33
18	19	121	112	94	199	68	37	36	25	24	47	36
19	19	93	109	91	198	63	37	35	25	24	51	37
20	19	83	105	89	197	59	37	36	25	24	61	37
21	19	77	102	88	196	55	38	33	25	24	49	36
22	19	71	101	88	193	52	38	33	25	25	51	36
23	19	70	98	88	191	51	37	33	25	24	42	37
24	19	160	98	88	127	50	36	33	25	23	29	37
25	19	114	97	88	51	48	36	32	25	23	28	35
26	20	93	102	88	48	208	35	33	25	23	29	33
27	20	705	92	88	45	192	35	32	25	23	28	34
28	20	577	89	86	44	142	35	31	25	23	29	35
29	20	325	89	86	---	112	33	31	26	24	30	34
30	20	210	89	91	---	97	33	30	26	24	37	33
31	20	---	88	95	---	86	---	28	---	24	37	---
TOTAL	633	4658	3663	2771	4757	3023	1370	1051	845	748	1513	1058
MEAN	20.4	155	118	89.4	170	97.5	45.7	33.9	28.2	24.1	48.8	35.3
MAX	25	705	168	95	827	263	79	57	50	25	101	38
MIN	19	20	88	86	44	42	33	28	25	23	24	32
AC-FT	1260	9240	7270	5500	9440	6000	2720	2080	1680	1480	3000	2100

CAL YR 1984 TOTAL 60477 MEAN 165 MAX 2800 MIN 11 AC-FT 120000
WTR YR 1985 TOTAL 26090 MEAN 71.5 MAX 827 MIN 19 AC-FT 51750

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to current year.
CHEMICAL ANALYSIS: Water years 1971-81.
WATER TEMPERATURES: Water years 1964 to current year.
SEDIMENT RECORDS: Water years 1964 to current year.
TURBIDITY: Water years 1964 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: March 1964 to current year.
SEDIMENT RECORDS: March 1964 to current year.

REMARKS.--Sediment samples were collected on most days where a water temperature is published. Zero bedload discharge observed at flows less than 88 ft^3/s.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATION: Maximum daily mean, 15,000 mg/L, estimated, Dec. 22, 1964; minimum daily mean, no flow many days in 1964, 1966, 1970-82.
SEDIMENT LOAD: Maximum daily, 830,000 tons, estimated, Dec. 22, 1964; minimum daily, 0 tons many days in 1964, 1966, 1968-83.

EXTREMES FOR CURRENT YEAR (storm season only).--
SEDIMENT CONCENTRATION: Maximum daily mean, 673 mg/L, Nov. 27; minimum daily mean, 2 mg/L, Nov. 2-5.
SEDIMENT LOAD: Maximum daily, 2,500 tons, Nov. 27; minimum daily, 0.11 ton, Nov. 4, 5.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	12.5	11.5	---	---	---	11.5	---	---	---		---
2	---	14.5	---	---	10.0	---	---	---	---	---		---
3	17.0	---	---	---	---	---	---	12.0	---	18.0		---
4	---	---	---	6.5	---	---	---	---	---	---		---
5	21.5	15.0	---	---	---	9.0	---	---	16.5	---		---
6	---	---	---	8.5	---	8.0	---	---	---	---		---
7	---	13.5	---	---	---	---	---	17.0	---	---		---
8	21.0	---	12.0	8.5	9.5	---	---	---	---	---		---
9	---	---	---	---	---	---	---	---	---	---		---
10	18.5	13.0	---	---	---	10.0	13.0	16.5	---	---		---
11	---	---	---	11.0	---	8.5	---	---	---	---		---
12	---	13.0	---	---	9.0	---	---	19.0	---	---		---
13	20.0	14.0	---	9.5	---	---	---	---	---	---		---
14	---	---	---	---	---	---	---	12.0	---	---		---
15	---	12.0	10.0	7.5	8.0	9.5	13.0	---	---	---		---
16	---	---	---	---	---	---	11.5	---	---	---		---
17	13.5	---	8.5	---	11.5	---	---	11.0	---	---		---
18	---	---	---	---	---	---	---	---	---	---		---
19	17.5	---	10.5	10.0	8.0	---	11.0	18.5	---	---		---
20	---	12.5	---	---	---	---	---	---	---	---		---
21	17.5	---	---	8.0	---	---	11.5	12.0	---	---		---
22	---	---	---	---	---	11.5	---	---	---	---		---
23	14.5	---	---	---	12.5	---	12.0	---	---	---		---
24	---	11.5	---	---	---	11.0	---	13.0	---	---		---
25	18.5	---	---	---	---	---	---	---	---	---		---
26	---	---	---	---	9.0	9.5	---	---	---	---		---
27	15.5	10.5	---	11.0	---	---	---	15.5	---	---		---
28	---	---	9.5	---	---	---	14.0	---	---	---		16.0
29	---	---	---	6.0	---	---	---	10.5	---	---		---
30	14.5	---	10.0	---	---	---	12.0	---	---	---		---
31	---	---	---	8.0	---	---	---	12.0	---	---		---
MONTH	---	---	---	---	---	---	---	---	---	---		---

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

SUSPENDED-SEDIMENT, NOVEMBER 1984 TO MAY 1985

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1			3	.16	62	28	28	6.7	20	5.0	26	3.2
2			2	.12	61	26	27	6.3	18	4.5	25	2.9
3			2	.12	60	27	26	6.1	18	4.4	24	2.7
4			2	.11	58	22	26	6.1	18	4.3	23	2.9
5			2	.11	57	21	24	5.6	18	4.3	21	2.7
6			4	.26	70	25	22	5.2	18	4.2	45	16
7			16	2.1	73	24	22	5.3	43	40	72	24
8			32	8.7	64	21	23	5.7	340	986	38	8.8
9			27	7.4	57	18	23	5.7	98	79	22	4.2
10			34	9.7	61	22	22	5.5	71	40	244	246
11			34	9.9	46	18	22	5.3	50	23	39	30
12			236	355	41	15	21	5.0	33	14	15	6.7
13			471	1200	38	13	20	4.9	20	7.6	11	3.8
14			65	25	36	12	22	5.4	51	28	9	2.7
15			175	61	36	12	25	6.1	49	27	7	1.8
16			207	113	35	11	25	6.2	47	26	7	1.4
17			147	52	35	11	25	6.3	57	31	7	1.3
18			119	39	35	11	25	6.3	63	34	7	1.3
19			96	24	35	10	25	6.1	65	35	7	1.2
20			82	18	35	9.9	22	5.3	62	33	7	1.1
21			64	13	34	9.4	19	4.5	57	30	7	1.0
22			46	8.8	33	9.0	19	4.5	50	26	7	.98
23			31	5.9	32	8.5	19	4.5	43	22	6	.83
24			47	23	32	8.5	19	4.5	37	13	5	.68
25			23	7.1	31	8.1	20	4.8	32	4.4	5	.65
26			20	5.0	30	8.3	20	4.8	29	3.8	150	179
27			673	2500	29	7.2	20	4.8	28	3.4	81	42
28			228	386	28	6.7	22	4.6	27	3.2	25	9.6
29			107	94	28	6.7	23	5.1	---	---	11	3.3
30			72	41	29	7.0	23	5.7	---	---	8	2.1
31			---	---	29	6.9	22	5.6	---	---	7	1.6
TOTAL			---	5009.48	---	443.2	---	168.5	---	1536.1	---	606.44

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6	1.3	7	.62								
2	6	1.2	8	.71								
3	6	1.1	8	.69								
4	6	1.1	8	.69								
5	6	.99	8	.69								
6	7	1.1	8	.71								
7	7	1.0	8	.71								
8	7	.98	8	.71								
9	7	.93	9	.75								
10	7	.91	10	.84								
11	7	.87	10	.84								
12	7	.87	11	.92								
13	6	.71	9	.75								
14	6	.68	8	.67								
15	6	.66	12	1.4								
16	6	.65	12	1.8								
17	7	.70	11	1.5								
18	8	.80	11	1.1								
19	8	.80	10	.95								
20	7	.70	10	.97								
21	6	.62	9	.80								
22	6	.62	10	.89								
23	7	.70	11	.98								
24	7	.68	13	1.2								
25	7	.68	12	1.0								
26	7	.66	11	.98								
27	7	.66	10	.86								
28	7	.66	9	.75								
29	7	.62	9	.75								
30	7	.62	10	.81								
31	---	---	10	.76								
TOTAL	---	24.57	---	27.80								

TOTAL LOAD FOR YEAR: 7816.09 TONS.

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, NOVEMBER 1984 TO MAY 1985

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
NOVEMBER 1984	4658	5009.48	268	5280
DECEMBER ...	3663	443.20	0	443
JANUARY 1985	2771	168.50	0	168
FEBRUARY ...	4757	1536.10	126	1660
MARCH	3023	606.44	2	608
APRIL	1370	24.57	0	25
MAY	1051	27.80	0	28
PERIOD	21293	7816.09	396	8212

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM
FEB							
08...	0745	1170	9.5	647	2040	--	--
08...	1050	892	10.0	322	776	--	--
08...	1310	744	11.5	225	452	--	--
08...	1800	546	10.0	142	209	--	--
12...	0710	155	9.0	36	15	--	--
MAR							
10...	1410	319	11.0	633	545	42	58

DATE	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM
FEB						
08...	--	--	--	82	--	--
08...	--	--	--	82	--	--
08...	--	--	--	86	--	--
08...	--	--	--	82	--	--
12...	--	--	--	94	--	--
MAR						
10...	72	84	91	96	98	100

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	STREAM-FLOW, INSTAN-TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
NOV								
13...	1515	14.0	5	284	2	6	12	21
SEP								
28...	1630	16.0	5	37	1	2	4	8

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
NOV							
13...	25	32	42	56	73	93	100
SEP							
28...	11	16	24	39	58	76	100

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	STREAM-FLOW, INSTAN-TANEOUS (CFS)	STREAM WIDTH (FT)	SEDI-MENT DIS-CHARGE, BEDLOAD (TONS/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
NOV							
13...	1450	14.0	20	298	100	15	5

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM
NOV						
13...	37	64	84	93	98	100

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	TUR-BID-ITY (NTU)
OCT					
30...	0630	14.5	20	3	1.0
NOV					
01...	0735	12.5	20	3	1.0
02...	0905	14.5	21	2	1.0
05...	1710	15.0	21	2	1.0
07...	0620	13.5	23	6	2.0
10...	0930	14.0	120	45	20
10...	1745	13.0	91	35	12
12...	0740	13.5	232	150	65
12...	1855	13.0	267	110	80
15...	0620	12.0	149	167	130
20...	1800	12.5	109	78	70
24...	1010	11.5	230	45	35
27...	0740	10.5	123	46	35
DEC					
01...	1010	11.5	165	72	55
08...	1650	12.0	120	63	60
15...	1700	10.0	123	36	34
17...	0710	8.5	114	35	35
19...	1550	10.5	109	35	33
28...	1205	9.5	89	28	20
30...	1700	10.0	88	29	19
JAN					
04...	0755	6.5	87	26	22
06...	0850	8.5	87	22	20
08...	0815	8.5	92	23	18
11...	1305	11.0	89	22	16
13...	1645	9.5	91	20	17
15...	0745	7.5	91	25	17
19...	1500	10.0	91	25	13
21...	0745	8.0	88	19	15
27...	1530	11.0	88	20	17
29...	0735	6.0	86	23	15
31...	0935	8.0	91	22	14
FEB					
02...	1750	10.0	92	18	15
08...	0745	9.5	1170	647	240
08...	1050	10.0	893	322	140
08...	1310	11.5	744	225	100
08...	1800	10.0	546	142	65
12...	0710	9.0	155	36	23
15...	0755	8.0	203	50	40
17...	1740	11.5	199	59	55
19...	0735	8.0	197	65	55
23...	1715	12.5	190	42	40
26...	0750	9.0	48	29	18
MAR					
05...	0705	9.0	44	22	12
06...	0625	8.0	50	19	9.0
06...	1515	9.0	55	36	20
10...	0730	10.0	187	134	65
10...	1115	10.0	187	131	95
10...	1410	11.0	319	633	270
10...	2000	10.0	485	235	100
11...	0650	8.5	278	40	25
11...	2010	12.0	210	18	13
15...	0745	9.5	97	7	4.0
22...	1115	11.5	51	7	3.0
24...	0800	11.0	50	5	2.0
26...	0715	9.5	47	5	3.0
26...	1745	9.5	560	559	230
APR					
01...	0655	11.5	80	6	4.0
10...	0550	13.0	48	7	4.0
15...	1455	13.0	40	6	4.0
16...	0655	11.5	40	6	4.0
19...	0645	11.0	37	8	5.0
21...	0750	11.5	37	6	5.0
23...	0700	12.0	37	7	5.0
28...	1145	14.0	35	7	4.0
30...	0635	12.0	33	7	4.0
MAY					
03...	0620	12.0	32	8	4.0
07...	1720	17.0	33	8	5.0
10...	1650	16.5	31	10	5.0
12...	1755	19.0	30	11	5.0

11465350 DRY CREEK NEAR MOUTH, NEAR HEALDSBURG, CA

LOCATION.--Lat 38°35'15", long 122°51'40", in Sotoyome Grant, Sonoma County, Hydrologic Unit 18010110, on right bank 0.25 mi upstream from mouth, 0.4 mi downstream from Mill Creek, 1.7 mi south of Healdsburg, and 13.5 mi downstream from Warm Springs Dam.

DRAINAGE AREA.--217 m^2.

PERIOD OF RECORD.--November 1980 to current year (low flow only).

GAGE.--Water-stage recorder. Elevation of gage is 50 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 7 to Dec. 18 and Feb. 17 to Mar. 5. Records good except for estimated daily discharges, which are fair. No records computed above 200 ft^3/s.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES (NOT PREVIOUSLY PUBLISHED)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0				165			---	41	31	26	36
2	0				163			---	40	31	25	36
3	.07				160			---	39	32	25	35
4	.39				156			---	38	32	22	32
5	1.2				153			---	39	28	19	41
6	.86				152			---	40	19	19	60
7	2.0				151			---	40	18	19	66
8	.75				150			---	39	17	18	68
9	.09				161			---	36	15	18	69
10	.04				158			---	36	8.9	27	69
11	.41				152			---	35	5.0	42	69
12	1.5				181			190	34	3.3	50	58
13	2.0				---			197	34	6.8	53	48
14	1.4				---			---	39	12	54	43
15	.07				---			---	39	12	55	40
16	0				---			---	38	11	51	40
17	0				---			---	37	12	45	38
18	0				---			---	37	13	38	37
19	0				---			200	37	14	37	37
20	9.9				---			198	36	15	38	39
21	---				---			194	37	16	39	38
22	---				---			189	36	16	39	37
23	---				---			172	36	17	40	38
24	---				---			171	36	17	41	39
25	155				---			166	36	18	42	38
26	28				---			130	35	18	45	39
27	1.2				---			119	35	19	44	37
28	.03				---			114	35	27	37	36
29	0				---			107	35	47	37	23
30	7.0				---			66	34	52	39	14
31	105				---			49	---	46	37	---
TOTAL	---				---			---	1109	629.0	1121	1300
MEAN	---				---			---	37.0	20.3	36.2	43.3
MAX	---				---			---	41	52	55	69
MIN	---				---			---	34	3.3	18	14
AC-FT	---				---			---	2200	1250	2220	2580

11465350 DRY CREEK NEAR MOUTH NEAR HEALDSBURG, CA-Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	10	---	114	85	48	146	43	16	12	12	20
2	11	11	---	112	84	47	132	41	18	10	13	20
3	11	12	---	112	83	45	121	38	20	9.5	12	20
4	11	11	---	110	83	50	111	38	19	11	10	20
5	11	11	---	108	82	86	102	37	19	11	12	21
6	11	27	197	108	82	---	95	36	18	11	17	21
7	11	53	178	168	---	---	89	36	18	10	22	22
8	11	125	160	129	---	---	85	35	18	12	27	26
9	11	133	157	122	---	95	81	34	17	11	41	29
10	11	132	---	117	---	---	77	35	17	8.2	69	27
11	12	140	---	111	---	---	74	33	17	6.8	77	23
12	12	---	174	108	---	---	71	33	31	8.3	76	22
13	11	---	164	106	---	---	69	32	35	9.0	58	21
14	10	---	154	103	---	---	67	31	22	9.5	52	21
15	10	---	144	103	---	176	63	32	17	9.4	51	20
16	10	---	141	100	---	150	63	47	13	9.0	49	20
17	11	---	136	98	---	135	61	53	12	9.6	39	20
18	10	---	140	98	---	128	59	39	11	10	33	22
19	10	---	134	96	---	119	58	32	12	10	31	24
20	9.8	193	128	95	---	111	59	28	13	9.7	37	24
21	9.8	164	130	95	---	102	64	28	14	11	38	25
22	9.8	144	129	94	---	95	59	26	15	12	32	25
23	9.8	135	127	93	---	91	55	25	15	12	34	25
24	9.8	---	126	93	167	91	51	23	15	11	24	25
25	9.8	---	123	91	65	85	49	23	15	9.8	19	26
26	10	157	155	91	51	---	48	23	14	10	17	24
27	10	---	132	89	47	---	47	24	13	10	15	23
28	10	---	123	90	48	---	45	24	12	11	14	23
29	10	---	117	88	---	---	45	23	12	12	13	23
30	10	---	117	88	---	---	44	20	12	12	14	24
31	10	---	116	86	---	181	---	17	---	12	18	---
TOTAL	325.8	---	---	3216	---	---	2190	989	500	319.8	976	686
MEAN	10.5	---	---	104	---	---	73.0	31.9	16.7	10.3	31.5	22.9
MAX	12	---	---	168	---	---	146	53	35	12	77	29
MIN	9.8	---	---	86	---	---	44	17	11	6.8	10	20
AC-FT	646	---	---	6380	---	---	4340	1960	992	634	1940	1360

11466500 LAGUNA DE SANTA ROSA NEAR GRATON, CA

LOCATION.--Lat 38°27'10", long 122°50'03", in Molinos Grant, Sonoma County, Hydrologic Unit 18010110, on downstream side of left bank pier of highway bridge, 0.2 mi downstream from Santa Rosa Creek, and 2 mi northeast of Graton.

PERIOD OF RECORD.--February 1940 to September 1949 (contents only), October 1964 to current year in reports of Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Dec. 31, 1958, at site 75 ft downstream at same datum.

REMARKS.--No gage height record Nov. 3-27. 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 only those days when the elevation was above 55.0 ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 73.3 ft, Dec. 23, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 60.4 ft, Feb. 8.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---			---	---						
2		---			---	---						
3		---			---	---						
4		---			---	---						
5		---			---	---						
6		---			---	---						
7		---			55.70	---						
8		---			59.90	---						
9		---			57.00	---						
10		---			55.40	---						
11		---			---	---						
12		---			---	---						
13		---			---	---						
14		---			---	---						
15		---			---	---						
16		---			---	---						
17		---			---	---						
18		---			---	---						
19		---			---	---						
20		---			---	---						
21		---			---	---						
22		---			---	---						
23		---			---	---						
24		---			---	---						
25		---			---	---						
26		---			---	55.30						
27		---			---	56.20						
28		56.10			---	55.10						
29		55.00			---	---						
30		---			---	---						
31		---			---	---						
MEAN		---			---	---						
MAX		---			---	---						
MIN		---			---	---						

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA
(National stream-quality accounting network station)

LOCATION.--Lat 38°30'31", long 122°55'36", in NE 1/4 SE 1/4 sec.26, T.8 N., R.10 W., Sonoma County, Hydrologic Unit 18010110, on right bank at downstream side of Hacienda bridge, 0.1 mi upstream from Hobson Creek, and 3.8 mi east of Guerneville.

DRAINAGE AREA.--1,338 mi^2.

WATER-DISCHARGE RECORDS

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."

REVISED RECORDS.--WSP 1395: Drainage area at former site. WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 20.14 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1954, nonrecording gage at bridge 5.3 mi downstream at datum 8.58 ft lower. Oct. 1, 1954, to Oct. 23, 1974, at site 0.7 mi downstream at datum 2.75 ft lower. Supplementary waterstage recorder 2.1 mi downstream used during periods of low flow 1948-54.

REMARKS.--Records good. Flow regulated by Lake Mendocino (station 11461800) 77 mi upstream, and by Lake Sonoma (station 11464900) (capacity 381,000 acre-ft) 26 mi upstream, since October 1983. Many diversions above station for irrigation of about 29,000 acres. Flow also affected by diversion into basin (see REMARKS for East Fork Russian River stations), since November 1958 by storage in Lake Mendocino (station 11461800) 77 mi upstream, and by diversion at Wohler pumping and beginning in May 1959.

AVERAGE DISCHARGE.--46 years, 2,369 ft^3/s, 1,716,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 93,400 ft^3/s Dec. 23, 1964, gage height, 49.6 ft site and datum then in use, from floodmarks; maximum gage height, 49.7 ft Dec. 23, 1955, site and datum then in use, from floodmarks; minimum daily discharge, 0.75 ft^3/s May 6, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 28,500 ft^3/s, Feb. 8, gage height 25.10 ft; minimum daily 110 ft^3/s, Aug. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	154	161	3630	1240	839	565	2480	336	216	155	131	141
2	193	194	2930	1220	830	537	2130	327	216	145	126	142
3	177	285	3640	1080	787	504	1820	311	225	140	122	144
4	160	354	3410	978	772	486	1610	298	222	139	117	143
5	157	293	3020	957	771	575	1450	292	215	132	111	146
6	156	320	2570	947	796	784	1330	282	210	138	110	140
7	152	322	2280	1370	1040	2420	1230	268	199	142	112	148
8	185	373	2070	1650	19400	1790	1140	246	189	140	111	180
9	227	582	1920	1480	14500	1440	1060	199	182	145	127	224
10	168	713	2400	1530	7250	2930	993	199	184	147	137	238
11	204	1720	3250	1450	5100	5100	945	225	173	153	153	319
12	195	4680	2630	1310	3400	2750	894	232	180	139	168	290
13	178	11400	2220	1200	2480	2080	858	226	182	139	157	211
14	161	6680	1980	1120	2030	1680	821	209	177	139	148	200
15	151	4340	1890	1090	1710	1390	787	227	163	142	152	190
16	160	7210	1950	1090	1450	1200	768	244	156	144	144	220
17	200	6040	1810	1060	1270	1090	736	261	142	131	135	182
18	208	4690	1740	1030	1300	1030	625	258	126	140	133	181
19	203	3690	1740	1000	2070	957	557	248	130	142	129	181
20	191	2890	1670	987	2030	891	525	227	147	131	133	177
21	181	2450	1550	966	1950	819	522	218	161	148	126	178
22	172	2010	1420	946	1930	758	513	201	163	164	122	175
23	158	1690	1370	887	1860	717	476	147	179	152	136	168
24	158	4370	1340	854	1470	707	443	146	189	157	142	173
25	153	3950	1320	844	909	705	416	179	199	149	138	173
26	148	2750	1470	830	775	2140	477	181	195	146	133	163
27	143	5580	1610	818	675	8650	432	187	186	145	133	154
28	145	14600	1450	819	610	7170	387	181	172	145	131	154
29	153	8020	1350	832	---	4960	366	191	161	143	131	154
30	158	5230	1300	849	---	3740	347	198	153	141	137	151
31	159	---	1270	844	---	2900	---	212	---	140	142	---
TOTAL	5308	107587	64200	33278	80004	63465	27138	7156	5392	4453	4127	5440
MEAN	171	3586	2071	1073	2857	2047	905	231	180	144	133	181
MAX	227	14600	3640	1650	19400	8650	2480	336	225	164	168	319
MIN	143	161	1270	818	610	486	347	146	126	131	110	140
AC-FT	10530	213400	127300	66010	158700	125900	53830	14190	10700	8830	8190	10790

WTR YR 1984 TOTAL 508775 MEAN 1390 MAX 14600 MIN 49 AC-FT 1009000
WTR YR 1985 TOTAL 407548 MEAN 1117 MAX 19400 MIN 110 AC-FT 808400

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.
CHEMICAL ANALYSES: Water years 1951 to current year. Published as "at Guerneville" in 1961-65.
BIOLOGICAL DATA: Water years 1985-81.
SPECIFIC CONDUCTANCE: Water years 1974-81.
WATER TEMPERATURES: Water years 1964 to current year.
SEDIMENT RECORDS. Water years 1966 to current year.
TURBIDITY: Water years 1967 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1973 to September 1981.
WATER TEMPERATURES: January 1964 to current year.
SEDIMENT RECORDS: April to September 1967, October 1969 to current year.

REMARKS.--Sediment samples were collected on most days where a water temperature is published. Zero bedload discharge observed for flows less than 1,090 ft^3/s.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATION (water years 1970-85): Maximum daily mean, 2,350 mg/L, Jan. 16, 1974; minimum daily mean, 1 mg/L, Oct. 21, 1982.
SEDIMENT LOAD (water years 1970-85): Maximum daily, 356,000 tons, Dec. 20, 1981; minimum daily, 0.03 ton, May 6, 1977.

EXTREMES FOR CURRENT YEAR (storm season only).--
SEDIMENT CONCENTRATION: Maximum daily mean, 987 mg/L, Feb. 8; minimum daily mean, 5 mg/L, several days.
SEDIMENT LOAD: Maximum daily, 55,300 tons, Feb. 8; minimum daily, 2.6 ton (estimated), Nov. 1.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
NOV												
21...	1330	2400	242	7.8	11.5	765	21	9.0	82	140	1200	98
JAN												
16...	1200	1090	256	7.8	8.0	765	4.3	10.2	86	43	120	110
FEB												
20...	1230	1960	255	7.9	10.0	765	23	10.2	90	K47	120	95
MAY												
21...	1130	216	294	8.1	20.0	765	3.5	9.2	101	K9	K3	140
JUL												
17...	1130	138	260	7.6	24.5	760	3.0	7.9	95	K12	21	120
SEP												
17...	1120	180	257	8.1	19.5	760	5.0	7.8	85	46	42	120

DATE	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE IT-FLD (MG/L AS HCO3)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L - CAC03)	ALKA-LINITY FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
NOV												
21...	4	21	11	12	21	.5	2.7	--	--	94	16	10
JAN												
16...	5	23	13	11	17	.5	1.6	130	107	108	17	8.9
FEB												
20...	0	20	11	12	21	.5	1.8	121	99	100	14	12
MAY												
21...	2	28	17	12	16	.5	1.4	169	139	138	15	8.0
JUL												
17...	0	24	14	9.8	15	.4	1.5	145	119	120	13	6.2
SEP												
17...	4	25	14	10	15	.4	1.4	142	116	120	16	6.2

See footnotes at end of table.

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
NOV												
21...	.10	17	147	150	.20	953	.63	.340	.70	.390	.320	.310
JAN												
16...	.10	15	145	150	.20	427	.38	.150	.30	.150	.120	.120
FEB												
20...	<.10	14	147	150	.20	778	.32	.830	1.3	.490	.430	.420
MAY												
21...	.10	13	170	180	.23	99	<.10	.060	.50	.060	.040	.030
JUL												
17...	.10	13	151	150	.21	56	<.10	.020	.40	.040	.020	.020
SEP												
17...	.10	11	145	150	.20	70	<.10	.030	.30	.040	.020	.020

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
NOV											
21...	1330	20	<1	65	<.5	<1	8	<3	12	54	<1
JAN											
16...	1200	10	1	66	<.5	<1	1	<3	1	29	4
MAY											
21...	1130	<10	<1	89	<.5	<1	<1	<3	2	8	1
SEP											
17...	1120	10	<1	87	<.5	<1	<1	<3	2	35	<1

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
NOV										
21...	4	13	<.1	<10	3	<1	<1	190	<6	14
JAN										
16...	6	17	<.1	<10	4	<1	<1	200	<6	8
MAY										
21...	8	14	<.1	<10	2	<1	<1	250	<6	16
SEP										
17...	<4	4	<.1	<10	2	<1	<1	240	<6	<3

K Results based on colony count outside the acceptable range (non-ideal colony count).
< Actual value is known to be less than the value shown.

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---		---	9.5	---	---	---		---		---
2	---	---		---	---	---	17.0	---		---		---
3	---	---		---	9.5	---	---	20.0		---		---
4	18.5	---		9.0	---	11.0	16.5	---		---		---
5	---	---		---	---	10.0	18.0	---		---		---
6	19.0	---		9.5	9.5	9.5	---	20.0		---		---
7	---	---		10.0	10.0	8.0	17.5	---		---		---
8	18.5	---		---	10.0	---	---	---		---		---
9	---	---		9.0	9.0	8.0	16.5	20.0		---		---
10	18.0	---		---	9.0	12.0	---	---		---		---
11	---	---		---	---	12.0	17.0	---		---		---
12	18.0	---		9.0	9.0	11.5	---	---		---		---
13	---	---		---	---	---	20.0	---		---		---
14	18.0	---		---	---	13.0	---	22.0		---		---
15	---	---		8.0	12.0	---	17.0	---		---		---
16	---	---		8.0	---	13.0	---	21.0		---		---
17	---	---		---	---	---	16.5	---		24.5		19.5
18	---	---		8.5	12.0	14.0	---	---		---		---
19	---	---		---	---	---	16.5	18.0		---		---
20	---	---		9.0	10.0	15.5	---	---		---		---
21	---	11.5		---	9.0	---	14.5	20.0		---		---
22	---	---		---	---	14.0	---	---		---		---
23	---	---		9.5	---	---	18.5	---		---		---
24	---	---		---	12.5	14.5	---	24.5		---		---
25	---	---		9.0	---	---	16.5	---		---		---
26	---	---		---	13.0	11.0	---	---		---		---
27	---	---		10.0	---	9.0	---	19.0		---		---
28	---	10.5		9.0	14.0	8.0	19.0	---		---		---
29	---	10.0		---	---	12.0	---	21.0		---		---
30	---	---		10.0	---	---	20.0	---		---		---
31	---	---		---	---	13.5	---	21.5		---		---
MONTH	---	---		---	---	---	---	---		---		---

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

SUSPENDED-SEDIMENT, NOVEMBER 1984 TO MAY 1985

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1			---	2.6		657	---	47	5	11	13	20
2			---	3.7		411	---	40	5	11	11	16
3			---	8.5		649	---	29	5	11	9	12
4			---	14		571	8	21	5	10	7	9.2
5			---	9.5		432	8	21	6	12	16	28
6			---	10		298	8	20	6	13	32	91
7			---	10		222	41	186	78	429	152	1020
8			---	13		179	64	285	987	55300	80	387
9			---	38		145	36	144	400	15700	37	144
10			---	67		246	21	87	190	3720	216	2350
11			---	392		527	19	74	141	1940	367	5670
12			---	4920		320	18	64	115	1060	79	587
13			---	17500		210	16	52	77	516	52	292
14			---	4600		160	13	39	53	290	40	181
15			---	937		138	11	32	35	162	32	120
16			---	2910		153	10	29	30	117	23	75
17			---	1880		127	9	26	29	99	25	74
18			---	1010		113	7	19	29	102	27	75
19			---	628		113	8	22	51	287	25	65
20			---	414		104	8	21	42	230	23	55
21			---	298		88	8	21	35	184	22	49
22			---	195		69	9	23	28	146	21	43
23			---	137		63	9	22	26	131	20	39
24			---	1540		62	8	18	21	83	19	36
25			---	1020		57	6	14	18	44	19	36
26			---	408		75	6	13	14	29	218	2380
27			---	7300		91	5	11	14	26	620	14900
28			670	28200		74	6	13	15	25	210	4070
29			210	4550		62	6	13	---	---	140	1870
30			---	1550		49	5	11	---	---	109	1100
31			---	---		51	5	11	---	---	81	634
TOTAL			---	80565.3		6516	---	1428	---	80688	---	36428.2

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	60	402	25	23								
2	47	270	25	22								
3	41	201	25	21								
4	38	165	26	21								
5	38	149	26	20								
6	38	136	26	20								
7	38	126	25	18								
8	37	114	25	17								
9	37	106	25	13								
10	36	97	26	14								
11	35	89	28	17								
12	32	77	29	18								
13	30	69	30	18								
14	27	60	32	18								
15	24	51	26	16								
16	25	52	20	13								
17	26	52	22	16								
18	26	44	25	17								
19	26	39	27	18								
20	27	38	18	11								
21	28	39	11	6.5								
22	26	36	11	6.0								
23	25	32	10	4.0								
24	24	29	9	3.5								
25	23	26	8	3.9								
26	22	28	7	3.4								
27	21	24	7	3.5								
28	20	21	7	3.4								
29	23	23	7	3.6								
30	25	23	7	3.7								
31	---	---	7	4.0								
TOTAL	---	2618	---	396.5								

TOTAL LOAD FOR PERIOD: 208640.0 TONS.

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

CROSS-SECTIONAL DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
FEB						
20...	1210	144	201	7.4	10.0	10.2
20...	1220	134	201	7.8	10.0	10.1
20...	1230	124	201	7.9	10.0	10.2
20...	1240	110	201	7.9	10.0	10.3
20...	1250	85	201	8.0	10.0	10.2
SEP						
17...	1105	5	258	8.1	19.5	7.8
17...	1110	15	258	8.1	19.5	7.8
17...	1115	25	257	8.1	19.5	7.8
17...	1120	35	256	8.1	19.5	7.8
17...	1125	45	256	8.1	19.5	7.8
17...	1130	55	258	8.1	19.5	7.9

SUMMARY OF WATER AND SEDIMENT DISCHARGE, NOVEMBER 1984 TO MAY 1985

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
NOVEMBER 1984	107587	80565.30	6040	86600
DECEMBER ...	64200	6516.00	362	6880
JANUARY 1985	33278	1428.00	7	1440
FEBRUARY ...	80004	80688.00	6480	87170
MARCH	63465	36428.20	1550	37980
APRIL	27138	2681.00	31	2650
MAY	7156	396.50	0	396
PERIOD	382828	208640.00	14470	223110

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
NOV										
21...	1430	2430	11.5	40	262	85	97	100	--	--
JAN										
16...	1340	1090	8.0	10	29	--	--	--	--	--
FEB										
20...	1430	1960	10.0	39	206	88	--	--	--	--
APR										
04...	1100	1620	16.5	38	166	82	88	95	98	100
MAY										
21...	1100	226	20.5	47	29	--	--	--	--	--
JUL										
17...	1115	135	24.5	11	4.0	--	--	--	--	--
SEP										
17...	1130	180	19.5	19	9.2	--	--	--	--	--

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	TEMPERATURE (DEG C)	NUMBER OF SAMPLING POINTS	STREAMFLOW, INSTANTANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
NOV								
21...	1540	11.5	5	2440	--	1	16	65
JAN								
16...	1425	8.0	5	1090	1	9	47	68
FEB								
20...	1530	9.0	6	1960	1	7	34	60

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
NOV							
21...	75	80	88	97	100	--	--
JAN							
16...	83	89	93	98	100	--	--
FEB							
20...	67	71	75	80	88	90	100

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	TUR-BID-ITY (NTU)
OCT					
04...	1815	18.5	154	5	2.0
06...	1205	19.0	152	6	2.0
08...	1130	18.5	152	7	2.0
10...	1115	18.0	154	8	2.0
12...	1115	18.0	158	7	2.0
14...	1730	18.0	162	6	2.0
NOV					
21...	1430	11.5	2430	40	13
28...	1615	10.5	12300	539	150
29...	0645	10.0	5100	235	85
JAN					
04...	1330	9.0	985	8	5.0
06...	1700	9.5	931	8	3.0
07...	1130	10.0	1220	23	7.0
08...	0000	9.0	1910	94	55
09...	0800	9.0	1480	26	14
09...	1500	10.0	1470	25	11
12...	1500	9.0	1300	18	8.0
15...	0930	8.0	1100	11	4.0
16...	1115	8.0	1110	8	4.0
16...	1245	8.0	1090	8	4.0
16...	1340	8.0	1090	10	4.0
18...	1800	8.5	1020	7	3.0
20...	1630	9.0	1000	8	3.0
23...	1500	9.5	856	9	3.0
25...	1700	9.0	839	6	2.0
27...	1630	10.0	810	5	3.0
28...	0930	9.0	814	6	3.0
28...	1730	10.5	818	6	3.0
30...	1700	10.0	861	5	2.0
FEB					
01...	1700	9.5	839	5	2.0
03...	1630	9.5	785	5	2.0
06...	0100	9.5	769	6	2.0
07...	0830	9.0	818	6	3.0
07...	1630	10.0	944	12	4.0
07...	2345	10.5	2860	478	100
08...	0700	10.0	12700	959	190
08...	1530	10.0	28200	1240	270
09...	0630	9.0	17300	514	200
09...	1745	9.0	11200	289	100
10...	1715	9.0	6610	170	55
12...	0900	9.0	3540	122	34
15...	1815	12.0	1680	32	13
18...	1830	12.0	1430	28	8.0
20...	1430	10.0	1960	39	19
21...	0715	9.0	1950	36	17
24...	1200	12.5	1410	21	12
26...	1030	13.0	784	14	7.0
28...	1230	14.0	546	15	6.0

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	TEMPER-ATURE (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	TUR-BID-ITY (NTU)
MAR					
04...	0700	11.0	490	7	1.0
05...	0930	11.0	439	9	3.0
05...	2100	10.0	647	15	4.0
06...	1700	9.5	716	26	9.0
07...	0930	8.0	2700	179	70
09...	1445	8.0	1390	37	12
10...	0630	12.0	1380	49	17
10...	1715	12.0	3920	352	120
11...	0715	9.5	6080	500	210
11...	1745	12.0	4050	166	75
12...	1030	11.5	2760	79	34
14...	1030	13.0	1680	40	12
16...	1700	13.0	1160	23	6.0
18...	1730	14.0	1020	27	4.0
20...	1815	15.5	877	23	6.0
22...	1830	14.0	742	21	2.0
24...	1900	14.5	708	19	2.0
26...	0930	11.0	676	22	2.0
26...	1745	10.0	3440	447	140
27...	0630	8.5	9140	724	230
27...	1845	9.0	8430	419	210
28...	0900	8.0	7670	248	95
29...	2030	12.0	4580	124	50
31...	1400	13.5	2850	78	24
APR					
02...	1700	17.0	2040	59	17
04...	1100	16.5	1620	38	12
05...	1745	18.0	1410	38	12
07...	1815	17.5	1210	38	6.0
09...	0930	16.5	1080	37	6.0
11...	1130	17.0	953	35	6.0
13...	1800	20.0	848	30	5.0
15...	1630	17.0	780	24	4.0
17...	1515	16.5	727	26	3.0
19...	1615	16.5	549	26	2.0
21...	1130	14.5	518	28	2.0
23...	2200	18.5	459	25	3.0
25...	1315	16.5	418	23	3.0
28...	1630	19.0	388	20	3.0
30...	2230	20.0	335	25	3.0
MAY					
03...	2215	20.0	303	25	2.0
06...	2115	20.0	268	26	2.0
09...	1530	20.0	168	25	3.0
14...	1300	22.0	168	32	2.0
16...	1830	21.0	251	20	2.0
19...	0900	18.0	249	27	2.0
21...	0930	20.0	226	11	2.0
21...	1100	20.5	226	47	3.0
24...	1930	24.5	163	9	2.0
27...	1400	19.0	188	7	2.0
29...	2030	21.0	182	7	2.0
31...	1600	21.5	212	7	3.0
JUL					
17...	1115	24.5	135	11	3.0
SEP					
17...	1130	19.5	180	19	8.0

11468000 NAVARRO RIVER NEAR NAVARRO, CA

LOCATION.--Lat 39°10'20", long 123°40'06", in SE 1/4 sec.7, T.15 N., R.16 W., Mendocino County, Hydrologic Unit 18010108, on right bank 2.9 mi downstream from North Fork, 5.2 mi upstream from mouth, and 6.8 mi west of Navarro.

DRAINAGE AREA.--303 mi^2.

PERIOD OF RECORD.--October 1950 to current year.

REVISED RECORDS.--WSP 1445: 1954(M). WSP 1929: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 4.79 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1969, at site 0.2 mi upstream at datum 1.86 ft higher.

REMARKS.--Estimated daily discharges: Mar. 27 to May 23 and May 27 to July 5. Records good except for periods of estimated record, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--35 years, 540 ft^3/s, 391,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 64,500 ft^3/s, Dec. 22, 1955, gage height, 40.60 ft site and datum then in use, from rating curve extended above 19,000 ft^3/s, on basis of slope-area measurement of maximum flow; minimum daily, 0.23 ft^3/s, July 13, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1937 reached a stage of 38.2 ft, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 27	2045	7,800	14.53	Feb. 8	0745	*12,500	*19.38

Minimum daily, 3.8 ft^3/s, Aug. 31, Sept. 1, 4, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	25	818	170	97	148	675	76	38	11	5.7	3.8
2	7.8	44	747	159	99	142	557	73	40	10	6.0	4.2
3	8.4	226	1200	150	99	134	466	71	41	10	5.8	4.2
4	8.5	112	864	144	94	138	399	69	34	9.8	5.4	3.8
5	9.2	71	755	137	91	146	346	66	33	9.7	5.0	3.8
6	9.5	72	596	133	89	184	301	64	29	9.1	4.9	4.1
7	9.5	124	491	144	300	354	270	63	28	8.9	5.2	4.7
8	9.2	173	420	173	8380	380	245	63	27	7.5	5.2	5.8
9	9.2	209	360	182	2830	298	225	61	25	6.6	5.0	14
10	13	384	407	279	1420	443	210	60	23	6.9	4.5	27
11	28	2010	835	232	950	803	199	59	22	6.6	4.6	27
12	35	2740	525	211	746	510	182	58	26	6.3	4.6	19
13	27	4210	432	196	604	395	170	56	25	6.1	4.5	15
14	20	1390	382	183	494	329	158	55	24	6.4	4.6	13
15	18	725	380	173	423	286	145	53	23	6.4	4.8	12
16	21	1680	431	163	371	252	138	52	22	6.7	4.8	11
17	52	1200	364	151	332	225	134	51	21	6.7	4.8	10
18	48	1020	339	141	301	208	126	50	20	6.4	4.8	10
19	36	708	369	134	274	199	118	48	20	6.4	4.8	9.6
20	31	590	321	126	249	188	112	47	19	6.4	4.8	9.5
21	28	504	290	124	229	176	112	47	17	6.4	5.0	9.5
22	25	384	265	119	214	164	109	45	16	6.4	5.2	9.2
23	23	317	248	116	201	156	103	43	16	6.0	5.2	9.0
24	21	1080	233	111	190	181	98	43	15	6.1	5.2	9.0
25	20	846	222	108	180	182	94	43	14	6.2	5.2	8.9
26	20	612	220	105	171	1340	90	41	14	5.5	4.8	7.6
27	20	2540	236	102	167	3320	87	46	13	5.2	4.8	6.9
28	21	4090	212	105	157	2920	84	45	13	5.2	5.0	6.9
29	39	1880	196	112	---	1910	81	44	12	5.2	4.7	6.9
30	33	1130	184	106	---	1210	79	42	12	5.4	4.3	7.0
31	29	---	179	100	---	856	---	41	---	5.6	3.8	---
TOTAL	685.7	31096	13521	4589	19752	18177	6113	1675	682	217.1	153.0	292.4
MEAN	22.1	1037	436	148	705	586	204	54.0	22.7	7.00	4.94	9.75
MAX	52	4210	1200	279	8380	3320	675	76	41	11	6.0	27
MIN	6.4	25	179	100	89	134	79	41	12	5.2	3.8	3.8
AC-FT	1360	61680	26820	9100	39180	36050	12130	3320	1350	431	303	580

CAL YR 1984 TOTAL 111489.1 MEAN 305 MAX 4210 MIN 5.6 AC-FT 221100
WTR YR 1985 TOTAL 96953.2 MEAN 266 MAX 8380 MIN 3.8 AC-FT 192300

11468500 NOYO RIVER NEAR FORT BRAGG, CA

LOCATION.--Lat 39°25'42", long 123°44'12", in NE 1/4 sec.15, T.18 N., R.17 W., Mendocino County, Hydrologic Unit 18010108, on right bank 0.7 mi downstream from South Fork, and 3.5 mi east of Fort Bragg.

DRAINAGE AREA.--106 mi^2.

PERIOD OF RECORD.--August 1951 to current year.

REVISED RECORDS.--WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 11.73 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good. No regulation or diversion above station.

AVERAGE DISCHARGE.--34 years, 219 ft^3/s, 158,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,600 ft^3/s, Mar. 29, 1974, gage height, 27.14 ft, from rating curve extended above 4,500 ft^3/s on basis of slope-conveyance study; minimum daily, 0.79 ft^3/s, Sept. 8, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 2,400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 11	1845	4,210	12.76	Feb. 8	0645	*4,800	*13.58

Minimum daily, 4.0 ft^3/s, Sept. 4, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	18	529	73	45	86	361	45	26	11	6.4	4.1
2	7.2	198	467	69	48	83	299	44	26	11	6.4	4.2
3	6.7	207	503	66	45	79	255	43	25	11	6.2	4.1
4	6.7	85	455	63	44	84	223	41	24	10	6.0	4.0
5	6.9	54	416	60	42	89	198	41	24	10	5.7	4.0
6	6.6	75	340	59	41	147	174	40	23	9.5	5.5	4.1
7	6.5	103	289	73	314	245	157	39	22	9.7	5.3	4.5
8	6.6	149	252	79	3240	270	141	38	21	9.3	5.3	5.1
9	7.1	153	221	96	1260	228	127	37	21	9.0	5.1	11
10	18	391	207	140	681	231	117	36	20	8.6	5.1	18
11	37	2100	206	121	461	222	109	36	19	8.2	5.1	15
12	22	1900	184	110	378	197	99	35	19	8.1	5.1	11
13	18	1860	165	101	314	176	93	34	18	8.2	5.1	8.0
14	16	963	152	93	269	156	88	33	17	8.1	5.1	6.7
15	13	546	170	87	235	140	81	33	17	7.8	5.2	6.0
16	14	446	191	81	213	127	80	32	17	7.5	5.3	5.5
17	23	383	195	75	194	117	77	31	17	7.2	5.5	5.4
18	19	529	189	70	177	108	72	30	16	6.9	5.5	5.4
19	19	462	178	67	160	101	68	30	15	6.9	5.2	5.2
20	20	410	162	64	147	93	65	30	16	7.0	5.2	5.2
21	17	349	145	62	136	88	67	29	15	7.3	5.0	5.1
22	15	294	131	60	127	83	66	28	15	7.0	4.9	5.1
23	13	267	122	57	118	81	61	28	16	6.9	4.9	4.9
24	12	828	115	55	110	108	56	27	15	6.8	4.9	4.8
25	11	666	109	52	104	96	54	27	14	6.5	4.7	4.7
26	12	483	107	51	100	425	52	22	14	6.1	4.5	4.7
27	12	905	100	49	96	1120	52	25	13	6.0	4.5	4.9
28	15	1610	92	55	91	1260	50	27	13	5.9	4.2	4.9
29	36	1030	85	52	---	948	48	30	12	6.1	4.2	5.0
30	29	716	79	48	---	635	46	30	12	6.0	4.2	5.1
31	22	---	76	46	---	457	---	27	---	6.2	4.2	---
TOTAL	474.0	18180	6632	2234	9190	8280	3436	1028	542	245.8	159.5	185.7
MEAN	15.3	606	214	72.1	328	267	115	33.2	18.1	7.93	5.15	6.19
MAX	37	2100	529	140	3240	1260	361	45	26	11	6.4	18
MIN	6.5	18	76	46	41	79	46	22	12	5.9	4.2	4.0
AC-FT	940	36060	13150	4430	18230	16420	6820	2040	1080	488	316	368

CAL YR 1984 TOTAL 57130.7 MEAN 156 MAX 2100 MIN 4.7 AC-FT 113300
WTR YR 1985 TOTAL 50587.0 MEAN 139 MAX 3240 MIN 4.0 AC-FT 100300

11469000 MATTOLE RIVER NEAR PETROLIA, CA

LOCATION.--Lat 40°18'42", long 124°15'48", in NW 1/4 sec.11, T.2 S., R.2 W., Humboldt County, Hydrologic Unit 18010107, on right bank 0.2 mi upstream from Clear Creek, 1.5 mi southeast of Petrolia, and 1.7 mi upstream from North Fork.

DRAINAGE AREA.--240 mi^2.

PERIOD OF RECORD.--October 1911 to December 1913, October 1950 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1285: 1912-13.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 40 ft above National Geodetic Vertical Datum of 1929, from topographic map. November 1911 to December 1913, nonrecording gages at several sites upstream within 0.3 mi of present site at various datums. Dec. 11, 1950, to July 14, 1955, at site 0.3 mi upstream at datum 7.48 ft higher. July 15, 1955, to Oct. 26, 1967, at site 0.4 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 1, June 13-18. Records good. Diversions for irrigation of about 350 acres above station.

AVERAGE DISCHARGE.--37 years, 1,375 ft^3/s, 996,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 90,400 ft^3/s, Dec. 22, 1955, gage height, 29.60 ft site and datum then in use, from rating curve extended above 26,000 ft^3/s on basis of slope-area measurement of maximum flow; minimum daily, 17 ft^3/s, Sept. 5, 15, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 12	0500	*44,600	*20.68	Feb. 8	0115	21,300	14.64
Nov. 27	1715	15,200	12.78				

Minimum daily, 25 ft^3/s, Aug. 31, Sept. 1, 27-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	119	3280	681	296	438	1510	253	163	60	40	25
2	33	6930	3150	638	325	421	1350	244	191	60	42	27
3	33	2090	4500	599	301	396	1190	241	161	58	40	27
4	33	919	3210	566	281	426	1030	237	147	58	38	27
5	36	649	2580	541	269	544	922	224	135	56	38	27
6	36	967	2240	524	263	695	827	216	127	54	36	27
7	36	845	1900	675	4150	816	760	212	128	54	36	27
8	46	1210	1650	692	12100	740	701	209	136	54	35	28
9	65	1420	1460	658	4050	674	655	202	128	52	34	44
10	121	8800	1610	686	2340	1150	607	202	116	50	33	49
11	304	16500	1760	635	1740	1090	579	200	108	49	31	49
12	202	26400	1520	612	1810	920	541	193	100	49	30	45
13	130	11300	1430	583	1550	810	502	186	94	48	31	40
14	130	5980	1310	557	1350	734	480	177	91	46	31	39
15	98	3680	1330	531	1180	670	457	171	89	45	31	38
16	98	2960	1340	503	1060	618	439	164	86	42	32	35
17	137	2610	1510	479	960	580	417	158	82	42	32	34
18	139	3950	1530	461	870	539	399	158	80	42	32	32
19	142	2830	1420	440	797	504	395	158	80	42	32	31
20	169	3000	1280	424	746	471	366	157	80	42	32	31
21	142	2490	1170	406	688	450	375	150	80	44	32	28
22	111	2040	1070	393	643	423	380	143	78	44	32	27
23	93	2480	986	381	609	431	350	143	76	45	31	27
24	80	6560	913	363	569	1070	326	139	73	44	31	27
25	73	3710	861	349	536	767	310	135	69	42	31	26
26	75	2770	898	339	507	2010	298	133	67	40	30	26
27	74	7940	815	325	482	3620	291	130	67	39	29	25
28	74	8410	760	334	456	3500	280	142	65	38	27	25
29	205	5420	701	325	---	2940	272	186	61	37	26	25
30	195	4200	734	304	---	2140	258	185	61	37	26	25
31	137	---	746	293	---	1740	---	158	---	38	25	---
TOTAL	3284	149179	49664	15297	40928	32327	17267	5606	3019	1451	1006	943
MEAN	106	4973	1602	493	1462	1043	576	181	101	46.8	32.5	31.4
MAX	304	26400	4500	692	12100	3620	1510	253	191	60	42	49
MIN	33	119	701	293	263	396	258	130	61	37	25	25
AC-FT	6510	295900	98510	30340	81180	64120	34250	11120	5990	2880	2000	1870

CAL YR 1984	TOTAL	401918	MEAN	1098	MAX	26400	MIN	28	AC-FT	797200
WTR YR 1985	TOTAL	319971	MEAN	877	MAX	26400	MIN	25	AC-FT	634700

11472150 EEL RIVER NEAR DOS RIOS, CA

LOCATION.--Lat 39°37'30", long 123°20'25", in SW 1/4 SW 1/4 sec.32, T.21 N., R.13 W., Mendocino County, Hydrologic Unit 18010103, on left bank 1,100 ft upstream from Outlet Creek, and 6.3 mi south of Dos Rios.

DRAINAGE AREA.--528 mi^2.

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,001.28 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good except discharges below 9.0 ft^3/s, which are fair. Flow partly regulated by Lake Pillsbury (station 11470000) 40 mi upstream and by diversion through Potter Valley powerhouse (station 11471000).

AVERAGE DISCHARGE.--19 years, 998 ft^3/s, 723,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 65,500 ft^3/s, Jan. 16, 1974, gage height, 33.64 ft, from rating curve extended above 26,000 ft^3/s on basis of slope-area measurement of peak flow; no flow many days in 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1964, reached a stage of 45.52 ft from information by local resident, discharge, 100,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,400 ft^3/s, Feb. 8, gage height, 13.82 ft; minimum daily, 1.0 ft^3/s, Aug. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.9	22	1770	215	150	206	909	94	97	9.1	3.6	12
2	6.9	1100	1710	211	151	200	679	93	48	8.8	3.6	6.7
3	7.8	742	2120	203	149	195	579	87	40	9.7	3.7	4.3
4	8.2	213	1570	197	145	193	485	85	34	9.7	3.3	4.1
5	8.9	96	1340	195	142	208	398	81	31	9.7	3.4	4.3
6	9.4	346	1120	196	139	256	349	81	31	9.7	3.2	4.7
7	8.6	458	938	226	1710	385	331	81	31	9.7	2.7	5.6
8	8.2	1040	805	271	7790	474	300	81	28	9.2	2.4	8.9
9	8.2	666	702	285	2180	538	269	79	26	8.2	1.9	19
10	10	1760	816	366	1240	732	274	79	24	8.2	1.8	21
11	22	3780	1200	300	896	769	228	77	23	7.9	1.8	19
12	36	3790	1070	262	796	546	209	74	20	7.0	1.9	16
13	24	4080	923	243	637	422	192	74	18	5.6	1.9	13
14	16	1690	784	227	549	350	181	70	17	5.6	1.9	11
15	14	1060	756	213	575	314	169	70	15	5.9	1.9	9.7
16	20	1320	774	204	562	294	164	67	14	5.6	1.9	9.0
17	27	1050	656	202	513	271	159	61	16	5.5	1.9	8.8
18	31	1550	560	197	454	254	166	100	16	5.2	1.6	8.9
19	29	920	484	189	397	244	186	174	14	4.5	1.6	8.9
20	23	811	416	182	347	225	238	183	14	4.5	1.8	8.9
21	21	657	355	177	297	212	245	135	13	4.5	1.9	8.9
22	18	498	319	171	267	207	197	127	12	4.5	1.9	8.0
23	16	537	292	172	251	203	167	126	12	4.9	1.9	6.6
24	16	2620	278	167	234	272	142	129	11	5.0	1.8	6.6
25	16	1250	270	163	223	256	115	130	11	4.6	1.6	6.6
26	19	955	273	159	223	418	113	126	11	4.0	1.4	6.6
27	18	3350	273	156	228	2200	114	125	11	3.6	1.2	6.6
28	15	6860	255	163	207	2090	109	126	11	3.6	1.2	6.6
29	24	3780	235	170	---	1690	106	131	10	3.6	1.0	8.7
30	28	2370	226	161	---	1320	99	133	9.7	3.6	1.3	8.8
31	28	---	224	155	---	1140	---	121	---	3.6	8.5	---
TOTAL	544.1	49371	23514	6398	21452	17084	7872	3200	668.7	194.8	71.5	277.8
MEAN	17.6	1646	759	206	766	551	262	103	22.3	6.28	2.31	9.26
MAX	36	6860	2120	366	7790	2200	909	183	97	9.7	8.5	21
MIN	6.9	22	224	155	139	193	99	61	9.7	3.6	1.0	4.1
AC-FT	1080	97930	46640	12690	42550	33890	15610	6350	1330	386	142	551

CAL YR 1984 TOTAL 192251.4 MEAN 525 MAX 6860 MIN 4.9 AC-FT 381300
WTR YR 1985 TOTAL 130647.9 MEAN 358 MAX 7790 MIN 1.0 AC-FT 259100

11472200 OUTLET CREEK NEAR LONGVALE, CA

LOCATION.--Lat 39°37'05", long 123°21'20", in NE 1/4 sec.1, T.20 N., R.14 W., Mendocino County, Hydrologic Unit 18010103, on right bank 0.2 mi downstream from Bloody Run Creek, 0.9 mi upstream from mouth, and 6.9 mi northeast of Longvale.

DRAINAGE AREA.--161 mi^2.

PERIOD OF RECORD.--October 1956 to current year.

REVISED RECORDS.--WSP 1929: 1958(M), 1960.

GAGE.--Water-stage recorder. Datum of gage is 1,018.14 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good except for discharges below 2.0 ft^3/s, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--29 years, 428 ft^3/s, 310,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 77,900 ft^3/s, Dec. 22, 1964, gage height, 30.6 ft, from floodmarks, from rating curve extended above 17,000 ft^3/s on basis of slope-area measurement of maximum flow; no flow at times in 1959, 1967, 1977, and 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 11	1930	7,570	10.62	Feb. 8	0115	*12,000	*13.24

Minimum daily, 0.19 ft^3/s, Sept. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	15	806	114	63	86	488	40	14	1.4	.32	.20
2	3.0	1720	933	106	65	81	384	38	14	1.4	.56	.20
3	2.9	606	1210	99	64	76	314	36	14	1.3	.81	.19
4	2.8	283	793	94	60	81	265	35	13	1.2	.74	.26
5	2.6	146	625	90	57	99	227	33	12	1.0	.66	.40
6	2.6	545	484	87	56	163	196	32	12	1.0	.61	.47
7	2.5	518	383	114	2500	311	175	31	11	.95	.50	.53
8	2.6	1230	323	145	6120	468	157	31	10	1.0	.43	1.0
9	2.6	645	280	192	2340	610	142	30	9.6	.91	.40	2.9
10	3.6	1790	300	294	1260	765	128	28	8.6	.90	.37	4.4
11	9.0	4790	440	220	689	593	119	27	8.0	.94	.39	3.2
12	7.8	3640	377	172	607	408	111	26	6.8	.86	.38	2.3
13	8.3	3500	307	150	470	300	106	25	6.2	.85	.35	1.9
14	6.6	1690	258	134	365	246	91	24	5.3	.81	.38	1.7
15	5.9	994	305	123	303	205	83	22	4.8	.79	.34	1.4
16	11	1030	382	114	266	178	80	21	4.2	.65	.34	1.3
17	20	905	324	105	235	161	78	20	4.0	.72	.35	1.2
18	16	1270	272	98	208	146	74	19	3.7	.66	.41	1.2
19	18	790	241	93	187	131	70	18	3.4	.58	.52	1.1
20	18	727	215	89	168	119	67	18	2.9	.58	.54	1.1
21	14	570	190	84	152	109	74	17	2.7	.58	.56	1.0
22	13	414	171	80	141	101	80	17	2.7	.61	.63	.91
23	12	563	158	76	132	96	69	16	2.4	.78	.66	.86
24	8.7	2280	148	73	122	189	60	15	2.4	.83	.58	.90
25	6.6	1250	139	71	112	158	55	15	2.0	.70	.52	.86
26	6.0	767	144	68	105	1320	52	14	1.8	.58	.45	.90
27	5.2	3260	140	65	101	2380	49	14	1.7	.52	.38	.90
28	7.5	3630	130	69	93	2250	46	14	1.7	.39	.32	.87
29	68	1820	118	76	---	1580	44	15	1.5	.28	.26	.95
30	33	1220	115	71	---	1000	42	17	1.4	.23	.22	1.1
31	21	---	126	66	---	660	---	16	---	.20	.21	---
TOTAL	343.5	42608	10837	3432	17041	15070	3926	724	187.8	24.20	14.19	36.20
MEAN	11.1	1420	350	111	609	486	131	23.4	6.26	.78	.46	1.21
MAX	68	4790	1210	294	6120	2380	488	40	14	1.4	.81	4.4
MIN	2.5	15	115	65	56	76	42	14	1.4	.20	.21	.19
AC-FT	681	84510	21500	6810	33800	29890	7790	1440	373	48	28	72

CAL YR 1984	TOTAL	110078.9	MEAN	301	MAX	4790	MIN	.69	AC-FT	218300
WTR YR 1985	TOTAL	94243.89	MEAN	258	MAX	6120	MIN	.19	AC-FT	186900

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CA

LOCATION.--Lat 39°42'23", long 123°19'27", in NE 1/4 SE 1/4 sec.5, T.21 N., R.13 W., Mendocino County, Hydrologic Unit 18010104, on right bank 0.6 mi upstream from Eastman Creek, 1.7 mi southeast Dos Rios, and 1.9 mi upstream from mouth.

DRAINAGE AREA.--745 mi^2.

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 901.58 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Oct. 1-23, Nov. 11-13. Records good except for estimated daily discharges and discharges below 15 ft^3/s, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--20 years, 1,719 ft^3/s, 1,245,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 90,500 ft^3/s, Jan. 23, 1970, gage height, 27.15 ft; minimum daily, 2.4 ft^3/s, Sept. 1, 1985.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 35,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 8	0600	*20,200	*16.67				

Minimum daily, 2.4 ft^3/s, Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	122	3590	635	224	823	3350	765	187	25	17	2.4
2	14	2190	3610	586	232	787	3630	762	180	23	16	2.6
3	15	3990	4050	559	198	708	3860	725	177	21	16	2.9
4	16	1880	2970	536	179	700	3500	669	166	21	18	3.1
5	17	1270	2620	529	141	677	3440	618	158	30	17	4.0
6	17	1530	2180	535	146	701	3260	568	152	44	15	4.7
7	19	2070	1900	653	1650	723	2910	526	147	40	13	5.9
8	21	2960	1720	722	12300	678	2560	479	144	37	12	9.8
9	23	2300	1610	658	4020	677	2430	429	137	35	9.7	18
10	28	5360	2370	654	2580	993	2310	395	127	33	8.5	48
11	34	8700	3000	560	2020	1120	2050	379	116	31	7.6	77
12	52	11600	2450	517	2310	991	1800	350	104	29	7.2	75
13	67	6900	2160	464	2560	888	1710	324	91	27	6.4	56
14	80	4670	1880	422	2150	816	1780	310	79	25	5.9	48
15	62	3370	1900	404	1950	779	1790	299	72	23	5.5	44
16	74	3600	1800	419	1900	762	1570	285	67	21	5.5	41
17	87	2810	1570	611	1760	739	1400	280	62	19	5.4	37
18	103	4390	1410	703	1580	702	1270	277	56	18	5.2	34
19	128	3120	1280	672	1430	672	1170	270	51	16	6.2	31
20	110	2790	1190	628	1300	659	1080	261	48	16	7.8	29
21	125	2310	1100	605	1170	656	1050	250	46	15	8.5	27
22	140	1820	1030	560	1150	619	1010	237	45	15	8.0	25
23	96	1590	989	497	1220	580	926	231	43	16	7.5	23
24	81	7300	950	446	1210	790	873	232	41	16	6.3	22
25	71	4060	907	400	1130	781	825	224	37	16	5.4	20
26	64	2930	903	359	1040	1380	792	212	34	14	4.7	19
27	61	7390	876	322	958	2730	783	207	31	13	4.0	18
28	69	11400	813	340	865	2480	791	200	30	11	3.5	17
29	185	5140	749	336	---	2340	780	223	28	11	3.0	16
30	300	3890	711	258	---	2380	768	226	26	21	2.7	16
31	170	---	696	221	---	2920	---	202	---	20	2.6	---
TOTAL	2342	123452	54984	15811	49373	33251	55468	11415	2682	702	261.1	776.4
MEAN	75.5	4115	1774	510	1763	1073	1849	368	89.4	22.6	8.42	25.9
MAX	300	11600	4050	722	12300	2920	3860	765	187	44	18	77
MIN	13	122	696	221	141	580	768	200	26	11	2.6	2.4
AC-FT	4650	244900	109100	31360	97930	65950	110000	22640	5320	1390	518	1540

CAL YR 1984	TOTAL	459426.2	MEAN	1255	MAX	11600	MIN	6.7	AC-FT	911300
WTR YR 1985	TOTAL	350517.5	MEAN	960	MAX	12300	MIN	2.4	AC-FT	695300

11475000 EEL RIVER AT FORT SEWARD, CA

LOCATION.--Lat 40°13'05", long 123°37'54", in SE 1/4 NE 1/4 sec.8, T.3 S., R.5 E., Humboldt County, Hydrologic Unit 18010105, on right bank at downstream side of bridge, 1.0 mi southeast of Fort Seward, 1.9 mi upstream from Dobbyn Creek, and 11.8 mi northeast of Garberville.

DRAINAGE AREA.--2,107 mi^2.

PERIOD OF RECORD.--September 1955 to current year. Prior to October 1965, published as "at Alderpoint."

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 217.26 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 22, 1964, at site 7.5 mi upstream at datum 46.55 ft higher. Feb. 2 to Sept. 30, 1965, at site 7.7 mi upstream at datum 49.42 ft higher.

REMARKS.--Estimated daily discharges: Nov. 11-12, 27-28. Records good. Flow slightly regulated by Lake Pillsbury (station 11470000) 99 mi upstream and by diversion through Potter Valley powerhouse (station 11471000).

AVERAGE DISCHARGE.--30 years, 4,835 ft^3/s, 3,503,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 561,000 ft^3/s, Dec. 22, 1964, gage height, 87.2 ft, from floodmarks, site and datum then in use, from rating curve extended above 110,000 ft^3/s on basis of slope-area measurement at gage height 72.5 ft; minimum daily, 1.2 ft^3/s, Sept. 13, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 41,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 12	Unknown	58,700	27.07	Feb. 8	1030	*61,000	*27.53
Nov. 28	Unknown	50,000	Unknown				

Minimum daily, 11 ft^3/s, Sept. 2-6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	345	13200	1600	1000	1840	9700	1100	465	77	21	12
2	31	4460	10800	1520	1010	1790	8990	1070	437	76	20	11
3	31	11600	16200	1460	1020	1710	8130	1050	369	73	21	11
4	33	3970	11200	1410	983	1680	7000	990	333	71	23	11
5	36	1670	9160	1380	958	1750	6230	933	310	68	24	11
6	37	1850	7410	1360	915	1880	5600	879	290	66	23	11
7	38	3930	6100	1430	3590	2160	4880	831	277	63	22	20
8	39	6850	5210	1670	43500	2410	4130	800	264	61	21	22
9	41	7660	4550	1650	18100	2500	3670	764	250	59	22	42
10	49	13500	4810	1790	10500	3150	3400	729	238	57	21	60
11	78	23000	7860	1770	7020	3950	3140	703	219	54	20	60
12	88	47000	6430	1580	6600	3210	2790	687	202	51	19	78
13	114	32900	5810	1490	6610	2690	2540	660	186	49	19	96
14	161	19100	4760	1410	5350	2360	2460	627	171	47	18	98
15	145	11000	4610	1360	4580	2150	2450	596	158	45	16	86
16	167	10800	4880	1330	4220	2030	2310	574	149	44	15	77
17	184	8940	4200	1310	3890	1930	2110	544	144	41	15	69
18	268	12900	3720	1400	3520	1840	1920	522	138	41	15	62
19	316	9570	3300	1410	3180	1740	1810	532	130	40	15	58
20	282	7730	2930	1360	2930	1670	1740	614	124	38	15	55
21	304	6890	2630	1320	2700	1610	1760	650	117	38	14	52
22	340	5020	2390	1290	2500	1570	1730	554	111	37	14	51
23	250	4680	2240	1240	2430	1520	1570	520	107	34	14	49
24	199	18200	2140	1200	2400	1890	1430	500	100	32	13	47
25	170	12700	2040	1160	2310	2310	1330	493	94	31	13	45
26	152	8320	2030	1130	2190	3370	1230	486	91	28	13	44
27	138	18500	2020	1100	2080	11300	1200	471	87	27	13	42
28	137	43000	1910	1090	1950	11500	1180	459	85	26	13	40
29	180	23800	1770	1120	---	10000	1160	461	81	25	13	39
30	336	15900	1670	1100	---	9040	1130	493	79	24	13	38
31	478	---	1660	1040	---	9400	---	502	---	23	12	---
TOTAL	4852	395785	159640	42480	148036	107950	98720	20794	5806	1446	530	1397
MEAN	157	13190	5150	1370	5287	3482	3291	671	194	46.6	17.1	46.6
MAX	478	47000	16200	1790	43500	11500	9700	1100	465	77	24	98
MIN	30	345	1660	1040	915	1520	1130	459	79	23	12	11
AC-FT	9620	785000	316600	84260	293600	214100	195800	41240	11520	2870	1050	2770

CAL YR 1984 TOTAL 1275439 MEAN 3485 MAX 47000 MIN 26 AC-FT 2530000
WTR YR 1985 TOTAL 987436 MEAN 2705 MAX 47000 MIN 11 AC-FT 1959000

11475560 ELDER CREEK NEAR BRANSCOMB, CA
(Hydrologic benchmark station)

LOCATION.--Lat 39°43'47", long 123°38'34", in NW 1/4 NE 1/4 sec.29, T.22 N., R.16 W., Mendocino County, Hydrologic Unit 18010106, on right bank 0.2 mi upstream from mouth, and 5.3 mi north of Branscomb.
Rain gage No. 1: Lat 39°43'50", long 123°38'07", in NW 1/4 NW 1/4 sec.28, T.22 N., R.16 W., elevation, 1,440 ft at site 0.5 mi east of gaging station.

DRAINAGE AREA.--6.50 mi^2.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder, crest-stage gage and one recording and storage-type precipitation gage. Datum of gage is 1,391.08 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharge. Records good. No regulation; small diversion above station for domestic use.

AVERAGE DISCHARGE.--18 years, 27.1 ft^3/s, 19,630 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,280 ft^3/s, Mar. 29, 1974, gage height, 9.77 ft, from rating curve extended above 660 ft^3/s on basis of slope-area measurements at gage heights 9.40 ft and 11.41 ft; minimum daily, 0.27 ft^3/s, Sept. 10-15, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1964, reached a stage of 11.41 ft, from floodmarks, discharge, 3,660 ft^3/s by slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 8	0030	*327	*6.09				

Minimum daily, 0.49 ft^3/s, Oct. 1-7, Aug. 25, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.49	2.3	76	12	5.9	14	47	7.0	3.4	1.4	.87	.57
2	.49	58	70	12	5.9	13	46	6.9	3.3	1.4	.91	.62
3	.49	27	82	11	5.8	13	40	6.8	3.2	1.4	.89	.66
4	.49	14	72	11	5.7	13	34	6.6	3.0	1.4	.86	.66
5	.49	9.7	63	10	5.6	13	29	6.3	2.9	1.3	.72	.72
6	.49	20	53	10	5.5	14	25	6.3	2.8	1.3	.72	.72
7	.49	21	46	11	73	14	21	6.1	2.7	1.2	.72	1.2
8	.78	45	41	9.9	203	14	19	5.9	2.7	1.1	.72	1.5
9	1.0	38	36	10	114	14	18	5.9	2.5	1.1	.71	2.1
10	2.4	77	35	10	71	19	17	5.9	2.5	1.0	.66	1.8
11	2.9	165	33	9.9	54	19	16	5.8	2.4	.95	.68	1.7
12	2.2	171	30	9.7	50	19	14	5.6	2.3	.95	.66	1.5
13	2.6	156	28	9.4	43	19	13	5.3	2.2	.95	.69	1.4
14	2.1	113	26	9.0	39	18	13	5.1	2.1	.87	.72	1.3
15	1.6	74	26	8.8	35	18	12	5.1	2.1	.90	.72	1.2
16	2.5	60	24	8.4	32	18	12	4.7	2.0	.87	.72	1.2
17	2.6	51	23	8.2	29	17	11	4.6	2.0	.87	.72	1.1
18	2.3	61	21	8.1	26	16	11	4.6	2.0	1.0	.72	1.0
19	2.6	55	20	7.9	24	15	10	4.6	2.0	1.1	.80	1.0
20	2.6	51	20	7.7	22	14	9.8	4.3	1.9	1.2	.87	.95
21	2.4	44	18	7.5	21	14	10	4.1	1.9	1.2	.87	.95
22	1.9	38	18	7.3	20	13	9.6	4.0	1.9	1.2	.78	.95
23	1.7	46	17	7.3	18	13	9.0	4.0	1.8	1.1	.66	.94
24	1.6	92	16	7.1	17	17	8.7	3.9	1.8	.79	.54	.87
25	1.5	73	16	6.9	16	14	8.3	3.7	1.7	.72	.49	.79
26	1.4	58	16	6.7	16	41	8.3	3.7	1.6	.74	.54	.79
27	1.4	112	15	6.5	15	56	7.9	3.6	1.6	.72	.49	.79
28	3.1	161	14	6.7	14	54	7.6	3.9	1.5	.72	.50	.79
29	4.7	130	14	6.3	---	50	7.4	4.1	1.5	.75	.54	.79
30	3.4	98	13	6.2	---	45	7.2	3.7	1.4	.79	.54	.78
31	2.7	---	13	6.1	---	45	---	3.5	---	.83	.54	---
TOTAL	57.41	2121.0	995	268.6	986.4	676	501.8	155.6	66.7	31.82	21.57	31.34
MEAN	1.85	70.7	32.1	8.66	35.2	21.8	16.7	5.02	2.22	1.03	.70	1.04
MAX	4.7	171	82	12	203	56	47	7.0	3.4	1.4	.91	2.1
MIN	.49	2.3	13	6.1	5.5	13	7.2	3.5	1.4	.72	.49	.57
AC-FT	114	4210	1970	533	1960	1340	995	309	132	63	43	62
a	6.62	27.15	4.37	1.36	9.66	8.46	0.46	0.46	0.00	0.00	0.01	1.48

CAL YR 1984 TOTAL 8034.95 MEAN 22.0 MAX 171 MIN .48 AC-FT 15940
WTR YR 1985 TOTAL 5913.24 MEAN 16.2 MAX 203 MIN .49 AC-FT 11730

a Precipitation, in inches, at rain gage No. 1.

11475560 ELDER CREEK NEAR BRANSCOMB, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968 to current year.
CHEMICAL ANALYSES: Water years 1968 to current year.
WATER TEMPERATURES: Water years 1968-79.
SEDIMENT RECORDS: Water years 1969 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1967 to September 1979.
SEDIMENT RECORDS: October 1973 to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
DEC												
11...	1100	34	90	7.5	7.5	720	.90	11.2	99	21	K18	38
MAR												
12...	1330	19	96	7.8	7.0	725	.50	10.8	94	K6	K14	42
JUN												
11...	0830	2.4	129	7.9	13.5	720	.60	9.4	96	K1	K12	53
SEP												
10...	1200	1.8	136	8.0	11.5	720	.50	9.8	95	K12	41	57

DATE	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE IT-FLD (MG/L AS HCO3)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L - CAC03)	ALKA-LINITY FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
DEC												
11...	0	10	3.2	5.5	24	.4	.60	52	43	43	1.7	2.4
MAR												
12...	0	11	3.5	6.0	23	.4	.60	57	47	46	3.1	2.2
JUN												
11...	0	14	4.4	7.5	23	.5	.70	75	62	59	3.0	2.5
SEP												
10...	0	15	4.7	8.0	23	.5	.90	77	63	63	4.7	2.9

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
DEC												
11...	.10	16	56	65	.08	5.1	<.10	.020	<.20	.020	.010	<.010
MAR												
12...	<.10	15	72	70	.10	3.7	<.10	.020	.30	.010	.010	.010
JUN												
11...	.10	16	80	85	.11	.52	<.10	.030	.20	.020	.010	.020
SEP												
10...	.10	15	79	89	.11	.38	<.10	.020	<.20	.020	.020	.020

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
MAR											
12...	1330	10	<1	17	<.5	<1	<1	<3	1	4	<1
SEP											
10...	1200	<10	<1	23	<.5	<1	1	<3	2	3	1

See footnotes at end of table.

11475560 ELDER CREEK NEAR BRANSCOMB, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
MAR										
12...	7	<1	<.1	<10	2	<1	<1	100	<6	16
SEP										
10...	<4	<1	<.1	<10	<1	<1	<1	150	<6	3

K Results based on colony count outside the acceptable range (non-ideal colony count).
< Actual value is known to be less than the value shown.

CROSS-SECTIONAL DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	SAMPLE LOC-ATION, CROSS SECTION (FT FM L BANK)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
MAR						
12...	1450	4.40	96	7.8	7.5	10.8
12...	1505	8.40	96	7.8	7.5	10.8
12...	1530	15.9	96	7.8	7.5	10.8
SEP						
10...	1030	1.00	136	8.0	11.5	9.7
10...	1040	3.00	136	8.0	11.5	9.8
10...	1050	5.00	136	8.0	11.5	9.8
10...	1100	7.00	136	7.9	11.5	9.8
10...	1110	9.00	136	8.0	11.5	9.8
10...	1120	11.0	136	8.0	11.5	9.8
10...	1140	13.0	136	7.9	11.5	9.6

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
DEC					
11...	1100	34	7.5	3	0.28
MAR					
12...	1330	19	7.0	3	0.15
SEP					
10...	1200	1.8	11.5	2	0.01

11475800 SOUTH FORK EEL RIVER AT LEGGETT, CA

LOCATION.--Lat 39°52'29", long 123°43'10", in NE 1/4 SE 1/4 sec.3, T.23 N., R.17 W., Mendocino County, Hydrologic Unit 18010106, on right bank near Standish Hickey State Park, 0.2 mi upstream from Rock Creek, and 0.7 mi northwest of Leggett.

DRAINAGE AREA.--248 mi^2.

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 693.32 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Nov. 2-5. Records good except for period of estimated daily discharge, which is fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--20 years, 941 ft^3/s, 681,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 72,700 ft^3/s, Jan. 4, 1966, gage height, 25.4 ft, from floodmarks, from rating curve extended above 21,000 ft^3/s on basis of slope-area measurement at gage height 26.13 ft; minimum daily, 7.3 ft^3/s, Aug. 4-6, 12, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1964, reached a stage of 26.13 ft, from floodmarks, discharge, 78,700 ft^3/s, by slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,500 ft^3/s and maximum(*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 11	1945	15,000	11.93	Feb. 8	0300	*19,900	*13.92
Nov. 27	1845	10,600	9.81				

Minimum daily, 16 ft^3/s, Aug. 31, Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	88	2430	349	171	344	1360	183	104	40	26	16
2	24	3680	2430	329	171	330	1130	179	103	40	26	17
3	24	2550	3520	319	171	315	957	172	97	40	26	18
4	25	899	2440	305	165	338	826	167	93	39	25	18
5	26	347	2020	296	158	353	722	164	91	37	24	18
6	27	712	1540	287	154	427	644	160	87	36	23	18
7	27	802	1270	303	3110	567	585	153	85	35	23	20
8	28	2160	1090	319	12300	688	535	149	84	35	22	22
9	32	1430	939	327	4410	718	488	145	82	35	21	60
10	47	3550	966	372	2580	982	456	146	78	34	21	50
11	106	8380	1160	331	1940	848	433	145	74	32	21	41
12	81	7750	950	310	2000	663	401	139	70	32	20	36
13	88	6380	847	297	1640	566	377	135	66	31	20	34
14	80	3740	750	282	1400	508	355	129	62	31	20	32
15	58	2260	784	272	1210	461	333	125	59	30	20	30
16	62	2130	834	263	1050	424	324	121	58	30	20	28
17	113	1550	777	250	920	394	314	119	57	29	20	27
18	96	2530	756	239	807	371	297	118	56	29	20	26
19	93	1670	697	234	719	348	287	115	53	28	21	26
20	102	1590	638	226	648	326	276	112	53	27	21	25
21	85	1300	581	221	589	309	292	107	52	27	21	25
22	68	1040	540	216	538	296	291	104	52	28	20	24
23	58	1160	511	207	499	290	259	102	51	28	19	23
24	51	4950	484	203	460	500	240	102	51	27	19	23
25	48	2510	459	198	429	417	230	101	50	26	18	22
26	45	1730	453	192	403	1780	221	100	50	25	18	21
27	45	5520	438	186	384	3340	214	96	43	25	18	21
28	94	7250	411	196	362	3060	206	104	42	23	17	21
29	276	4220	384	196	---	2430	196	130	41	23	17	21
30	173	3100	374	183	---	1940	187	125	41	24	17	21
31	114	---	375	174	---	1640	---	109	---	25	16	---
TOTAL	2220	86978	31848	8082	39388	25973	13436	4056	1985	951	640	784
MEAN	71.6	2899	1027	261	1407	838	448	131	66.2	30.7	20.6	26.1
MAX	276	8380	3520	372	12300	3340	1360	183	104	40	26	60
MIN	24	88	374	174	154	290	187	96	41	23	16	16
AC-FT	4400	172500	63170	16030	78130	51520	26650	8050	3940	1890	1270	1560

CAL YR 1984	TOTAL	264226	MEAN	722	MAX	8380	MIN	22	AC-FT	524100
WTR YR 1985	TOTAL	216341	MEAN	593	MAX	12300	MIN	16	AC-FT	429100

11476500 SOUTH FORK EEL RIVER NEAR MIRANDA, CA

LOCATION.--Lat 40°10'55", long 123°46'30", in NW 1/4 sec.30, T.3 S., R.4 E., Humboldt County, Hydrologic Unit 18010106, on right bank at Sylvandale Campgrounds on U.S. Highway 101, 0.5 mi upstream from Rocky Glen Creek, 4.3 mi southeast of Miranda, and 20 mi upstream from mouth.

DRAINAGE AREA.--537 mi^2.

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1395: Drainage area. WSP 2129: 1955.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 217.57 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 2, 1940, nonrecording gage at site 200 ft upstream at datum 0.8 ft higher. Nov. 2, 1940, to Oct. 31, 1944, nonrecording gage at present site and datum.

REMARKS.--No estimated daily discharge. Records good. Occasional storage and release for recreation use during summer months at Benbow Dam. No diversion above station.

AVERAGE DISCHARGE.--46 years, 1,965 ft^3/s, 1,424,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 199,000 ft^3/s, Dec. 22, 1964, gage height, 46.0 ft, from floodmarks, from rating curve extended above 53,000 ft^3/s on basis of slope-area measurement at gage height 42.7 ft; minimum observed, 9 ft^3/s, Oct. 17, 1944.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 11	2100	47,300	21.06	Nov. 28	0045	28,100	16.76
Nov. 24	1030	17,200	13.75	Feb. 8	0615	*49,900	*21.64

Minimum daily, 12 ft^3/s, Sept. 1-2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	154	207	5440	814	398	721	2800	346	194	80	45	12
2	211	6250	5170	774	396	674	2290	338	193	77	45	12
3	65	4730	8290	747	394	635	1910	334	186	74	23	18
4	47	1410	5480	722	380	656	1620	325	184	73	16	28
5	49	840	4510	702	364	728	1410	315	176	71	40	30
6	47	1010	3440	687	358	971	1260	313	170	71	39	30
7	45	1610	2770	709	4710	1120	1140	300	165	70	39	36
8	48	3080	2350	734	32800	1180	1040	285	163	67	39	41
9	56	3730	2020	740	10200	1140	953	278	157	64	39	101
10	91	9960	2060	769	5550	1820	868	277	148	64	38	253
11	258	23900	2530	747	3790	1860	824	274	139	63	37	227
12	211	27900	2090	714	3690	1480	770	266	132	61	37	94
13	176	17100	1920	689	3190	1260	707	254	126	59	39	75
14	166	9680	1680	660	2720	1120	665	245	120	57	39	68
15	144	5490	1860	639	2400	1020	634	235	116	55	39	62
16	139	4580	1930	618	2140	938	611	191	113	55	42	58
17	220	3830	1860	593	1880	870	583	152	111	54	49	53
18	226	6150	1830	569	1660	813	558	178	106	53	53	50
19	221	4340	1690	557	1510	753	538	185	105	51	51	47
20	224	4240	1540	544	1390	705	515	199	101	51	48	45
21	205	3540	1400	522	1260	663	509	201	98	51	32	44
22	168	2730	1290	507	1200	628	509	196	97	52	27	42
23	139	3840	1200	493	1120	609	479	194	97	53	43	42
24	120	13400	1120	481	1050	1100	442	190	94	46	49	40
25	108	6910	1050	463	999	1040	420	186	90	42	51	39
26	100	4700	1050	454	931	2630	400	186	88	42	51	38
27	96	14200	995	443	851	7320	390	186	84	42	50	36
28	105	21500	932	448	783	7040	383	187	81	42	48	36
29	271	11000	870	451	---	5540	370	208	81	42	29	36
30	411	7190	852	430	---	4140	358	228	81	43	25	36
31	274	---	853	411	---	3350	---	205	---	45	17	---
TOTAL	4795	229047	72072	18831	88114	54524	25956	7457	3796	1770	1219	1729
MEAN	155	7635	2325	607	3147	1759	865	241	127	57.1	39.3	57.6
MAX	411	27900	8290	814	32800	7320	2800	346	194	80	53	253
MIN	45	207	852	411	358	609	358	152	81	42	16	12
AC-FT	9510	454300	143000	37350	174800	108100	51480	14790	7530	3510	2420	3430

CAL YR 1984 TOTAL 630243 MEAN 1722 MAX 27900 MIN 35 AC-FT 1250000
WTR YR 1985 TOTAL 509310 MEAN 1395 MAX 32800 MIN 12 AC-FT 1010000

11476600 BULL CREEK NEAR WEOTT, CA

LOCATION.--Lat 40°21'05", long 124°00'10", in SW 1/4 NW 1/4 sec.30, T.1 S., R.2 E., Humboldt County, Hydrologic Unit 18010106, on left bank 0.2 mi downstream from Albee Creek, 4.5 mi northwest of Weott, and 4.6 mi upstream from mouth.

DRAINAGE AREA.--28.1 mi^2.

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 269.36 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 22, 1964, water-stage recorder, and Jan. 14 to Aug. 10, 1965, nonrecording gage at site 150 ft downstream at datum 8.90 ft lower.

REMARKS.--No estimated daily discharges. Records fair. Minor diversions above station for domestic use.

AVERAGE DISCHARGE.--25 years, 130 ft^3/s, 94,190 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,520 ft^3/s, Dec. 22, 1964, gage height, 20.6 ft, from floodmarks, site and datum then in use, from rating curve extended above 2,100 ft^3/s on basis of slope-area measurement of maximum flow; minimum daily, 0.30 ft^3/s, Sept. 28, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 12	0145	*3,500	*9.83	Nov. 27	1345	1,700	7.60

Minimum daily, 0.97 ft^3/s, Sept. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	8.8	443	54	38	54	186	25	15	4.5	2.8	1.5
2	2.4	306	393	56	41	52	167	25	13	4.2	2.7	1.5
3	2.2	77	336	56	38	50	148	24	12	3.9	2.4	1.4
4	2.4	42	264	55	32	57	132	23	12	3.9	2.3	1.3
5	3.0	33	226	53	33	67	119	22	11	3.8	2.3	1.2
6	2.6	69	186	51	33	72	108	22	11	3.8	2.2	1.2
7	2.2	50	160	61	261	85	98	21	10	3.5	2.2	1.5
8	2.6	88	139	54	402	82	90	20	10	3.4	2.2	1.7
9	3.7	98	122	55	247	82	83	19	9.3	3.3	2.2	2.8
10	12	478	148	52	202	152	76	20	8.7	3.2	2.2	2.5
11	12	1200	135	50	172	120	70	19	8.2	3.2	2.3	2.1
12	8.2	1870	134	48	164	106	65	18	7.8	3.3	2.3	1.9
13	8.3	1100	127	48	146	96	60	17	7.7	3.2	2.3	1.8
14	5.9	700	115	47	135	95	57	16	7.5	3.1	2.2	2.3
15	5.0	473	123	46	125	94	54	16	7.2	3.1	2.2	2.1
16	10	428	116	45	117	91	51	15	7.0	3.0	2.2	1.8
17	11	375	119	45	109	83	48	15	6.7	3.0	2.3	1.8
18	10	391	121	44	102	77	46	15	6.3	2.9	2.4	1.6
19	14	291	114	43	98	72	44	15	6.2	2.6	2.5	1.5
20	11	319	109	44	95	69	42	14	6.0	2.6	2.5	1.4
21	8.5	267	99	44	88	60	42	14	5.7	2.8	2.4	1.3
22	7.1	227	92	42	81	56	38	13	5.7	2.9	2.3	1.3
23	6.2	293	86	42	76	64	35	13	5.6	2.7	2.2	1.2
24	5.5	339	79	45	71	88	34	13	5.3	2.5	2.3	1.1
25	5.1	282	74	37	67	59	32	13	5.1	2.4	2.3	1.1
26	5.3	241	75	37	63	172	31	13	5.0	2.3	2.2	.97
27	5.3	1070	66	36	61	242	30	13	5.0	2.3	2.2	.99
28	13	1080	61	36	57	297	29	15	4.7	2.2	1.9	.99
29	12	792	57	34	---	282	28	15	4.6	2.3	1.6	1.0
30	8.9	632	60	33	---	236	26	13	4.6	2.4	1.4	1.1
31	7.6	---	55	33	---	207	---	12	---	2.5	1.5	---
TOTAL	215.9	13619.8	4434	1426	3154	3419	2069	528	233.9	94.8	69.0	45.95
MEAN	6.96	454	143	46.0	113	110	69.0	17.0	7.80	3.06	2.23	1.53
MAX	14	1870	443	61	402	297	186	25	15	4.5	2.8	2.8
MIN	2.2	8.8	55	33	32	50	26	12	4.6	2.2	1.4	.97
AC-FT	428	27010	8790	2830	6260	6780	4100	1050	464	188	137	91

CAL YR 1984 TOTAL 37601.7 MEAN 103 MAX 1870 MIN 1.9 AC-FT 74580
WTR YR 1985 TOTAL 29309.35 MEAN 80.3 MAX 1870 MIN .97 AC-FT 58140

11477000 EEL RIVER AT SCOTIA, CA
(National Stream-Quality Accounting Network Station)

LOCATION.--Lat 40°29'30", long 124°05'55", in SW 1/4 sec.5, T.1 N., R.1 E., Humboldt County, Hydrologic Unit 18010105, near center of span in left pier of bridge on U.S. Highway 101, 0.5 mi north of Scotia, and 6 mi upstream from Van Duzen River.

DRAINAGE AREA.--3,113 mi^2.

WATER-DISCHARGE RECORDS

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.

REVISED RECORDS.--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.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 35.50 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 12, 1940, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Flow slightly regulated by Lake Pillsbury (station 11470000) 138 mi upstream and by diversion through Potter Valley powerhouse (station 11471000).

AVERAGE DISCHARGE.--75 years, 7,494 ft^3/s, 5,429,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 752,000 ft^3/s, Dec. 23, 1964, gage height, 72.0 ft, from floodmarks, from rating curve extended above 220,000 ft^3/s on basis of maximum flow at upstream stations; minimum observed, 10 ft^3/s, Aug. 12-14, 1924.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 72,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Nov. 12	0445	*133,000	*31.76	Feb. 8	1600	114,000	29.71
Nov. 28	1045	94,500	27.32				

Minimum daily, 58 ft^3/s, Sept. 3-8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	857	24000	3140	1650	2950	16000	1690	848	220	99	60
2	122	7350	18700	2950	1630	2820	14300	1650	828	206	99	60
3	232	21900	29300	2820	1620	2720	12700	1620	797	206	99	58
4	196	9290	23000	2720	1600	2690	11100	1560	729	206	97	58
5	182	4930	17400	2620	1570	2850	9470	1530	677	198	91	58
6	175	3930	14200	2570	1540	3040	8440	1420	639	186	75	58
7	174	5740	11400	2580	2950	3720	7550	1330	597	186	72	58
8	175	8750	9620	2680	77100	3890	6730	1300	583	176	72	58
9	177	15700	8330	2760	45000	3950	5970	1270	570	159	72	60
10	190	23600	7710	2760	20800	5380	5440	1230	537	157	71	72
11	285	53900	10800	2800	13600	6190	4970	1210	505	152	69	162
12	428	104000	11000	2670	11700	5840	4510	1200	487	151	69	210
13	448	68800	10300	2560	11400	5260	4060	1150	456	149	69	187
14	435	45400	8790	2500	9700	4760	3760	1090	429	148	68	182
15	429	22900	8280	2430	8270	4280	3640	1040	406	138	66	177
16	449	17200	8600	2340	7460	3900	3540	1010	388	135	66	167
17	486	16300	8120	2250	6910	3690	3340	943	370	135	66	158
18	577	20700	7640	2230	6310	3480	3020	859	350	133	66	148
19	640	19600	7120	2250	5700	3260	2810	844	339	132	66	139
20	734	15500	6410	2220	5190	3080	2640	841	322	132	66	134
21	763	14700	5800	2180	4740	2890	2570	879	309	132	66	130
22	731	11300	5200	2100	4380	2790	2570	901	295	132	66	128
23	727	9400	4740	2050	4150	2710	2430	885	291	132	66	127
24	686	32600	4480	1990	3860	3220	2300	868	277	123	62	124
25	630	30400	4200	1920	3710	3570	2200	851	271	106	60	122
26	605	17900	4130	1850	3540	4510	2030	836	271	106	60	122
27	580	30100	4040	1820	3340	19300	1920	823	253	106	60	118
28	560	83100	3850	1770	3200	24000	1900	814	240	106	60	113
29	576	53800	3570	1760	---	21900	1830	812	234	106	60	112
30	708	31300	3370	1770	---	18000	1770	817	228	99	60	107
31	837	---	3300	1720	---	16400	---	841	---	99	60	---
TOTAL	14052	800947	297400	72780	272620	197040	155510	34114	13526	4552	2198	3467
MEAN	453	26700	9594	2348	9736	6356	5184	1100	451	147	70.9	116
MAX	837	104000	29300	3140	77100	24000	16000	1690	848	220	99	210
MIN	115	857	3300	1720	1540	2690	1770	812	228	99	60	58
AC-FT	27870	1589000	589900	144400	540700	390800	308500	67670	26830	9030	4360	6880

CAL YR 1984 TOTAL 2424626 MEAN 6625 MAX 104000 MIN 114 AC-FT 4809000
WTR YR 1985 TOTAL 1868206 MEAN 5118 MAX 104000 MIN 58 AC-FT 3706000

114770000 EEL RIVER AT SCOTIA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952 to current year.
CHEMICAL ANALYSES: Water years 1952-75, 1977, 1979 to current year.
BIOLOGICAL DATA: Water years 1979-81.
SPECIFIC CONDUCTANCE: Water years 1979-81.
WATER TEMPERATURES: Water years 1958-82.
SEDIMENT RECORDS: Water years 1955 to current year.
TURBIDITY: Water years 1965-68, 1972-73.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: June 1979 to September 1981.
WATER TEMPERATURES: October 1957 to June 1982.
SEDIMENT RECORDS. October 1957 to September 1980.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 414 microsiemens, Dec. 21, 1980; minimum recorded, 94 microsiemens, Jan. 14, 1980.
WATER TEMPERATURES: Maximum recorded, 27.0°C, July 23, 1979; minimum recorded, 2.0°C, Dec. 11, 1972.
SEDIMENT CONCENTRATION: Maximum daily mean, 33,000 mg/L (estimated), Dec. 23, 1964; minimum daily mean, 1 mg/L, several days in 1958-64, 1966-67, 1970, 1972-80.
SEDIMENT LOAD: Maximum daily, 57,000,000 tons (estimated), Dec. 23, 1964; minimum daily, 0.07 ton, Aug. 13, 17-20, 1977.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
NOV												
05...	1200	4470	170	7.9	12.5	750	50	9.7	93	230	430	77
JAN												
11...	1230	2800	182	7.9	7.5	765	3.8	11.3	94	K2	22	86
MAR												
13...	1130	5300	145	7.8	10.5	760	15	10.9	98	K3	K6	71
MAY												
09...	1215	1300	210	7.6	16.5	750	1.5	9.7	101	<1	<1	99
JUL												
18...	1215	135	294	8.2	21.0	760	1.0	8.7	98	K3	K3	140
SEP												
09...	1315	57	284	8.4	18.0	760	.60	12.0	127	K8	33	150

DATE	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE IT-FLD (MG/L AS HCO3)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L - CACO3)	ALKA-LINITY FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
NOV												
05...	15	21	5.9	5.3	13	.3	1.0	--	--	62	17	4.9
JAN												
11...	12	23	6.9	6.0	13	.3	.80	91	75	75	15	3.5
MAR												
13...	6	19	5.7	5.4	14	.3	1.0	79	65	65	11	2.9
MAY												
09...	11	27	7.5	6.1	12	.3	1.0	107	88	89	12	3.1
JUL												
18...	6	38	11	9.0	12	.3	1.5	164	134	134	17	5.7
SEP												
09...	15	39	12	9.3	12	.3	1.5	162	133	133	21	6.6

See footnotes at end of table.

114770000 EEL RIVER AT SCOTIA, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
NOV												
05...	<.10	9.0	101	100	.14	1220	.18	<.010	.40	.100	.010	.010
JAN												
11...	<.10	11	104	110	.14	786	<.10	.020	<.20	.020	.010	.010
MAR												
13...	<.10	11	96	95	.13	1370	<.10	.030	.20	.030	.010	.020
MAY												
09...	<.10	11	116	120	.16	407	<.10	.020	.50	.010	.010	.010
JUL												
18...	<.10	11	173	170	.24	63	<.10	.010	<.20	.010	<.010	<.010
SEP												
09...	.10	8.5	173	180	.24	27	<.10	.020	.30	<.010	<.010	.010

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
NOV											
05...	1200	30	<1	47	<.5	<1	<1	<3	3	41	4
JAN											
11...	1230	10	<1	49	<.5	1	2	<3	1	11	3
MAY											
09...	1215	<10	<1	61	<.5	<1	<1	<3	1	4	8
SEP											
09...	1315	<10	<1	92	<.5	<1	1	<3	1	<3	1

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
NOV										
05...	<4	4	<.1	<10	3	<1	<1	250	<6	9
JAN										
11...	5	7	<.1	<10	<1	<1	<1	260	<6	6
MAY										
09...	4	3	<.1	<10	3	<1	<1	320	<6	10
SEP										
09...	5	<1	<.1	<10	1	<1	<1	420	<6	7

K Results based on colony count outside the acceptable range (non-ideal colony count).
< Actual value is known to be less than the value shown.

CROSS-SECTIONAL DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
MAR						
13...	1105	262	150	7.8	10.5	10.9
13...	1130	177	149	7.8	10.5	11.2
13...	1145	117	147	7.8	11.0	10.9
13...	1205	87	149	7.8	10.5	10.9
13...	1225	52	146	7.8	11.0	11.0
SEP						
09...	1545	70	270	8.4	19.0	12.6
09...	1555	95	279	8.4	18.5	12.0
09...	1605	115	285	8.4	19.0	12.0
09...	1615	132	284	8.4	19.0	11.9
09...	1625	160	283	8.4	19.0	12.0

114770000 EEL RIVER AT SCOTIA, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV						
05...	1200	4470	12.5	102	1230	85
JAN						
11...	1230	2800	7.5	13	98	--
MAR						
13...	1130	5300	10.5	29	415	--
MAY						
09...	1215	1300	16.5	4	14	--
JUL						
18...	1215	135	21.0	8	2.9	--
SEP						
09...	1315	57	18.0	4	0.62	--

11478500 VAN DUZEN RIVER NEAR BRIDGEVILLE, CA

LOCATION.--Lat 40°28'50", long 123°53'23", in NE 1/4 SE 1/4 sec.12, T.1 N., R.2 E., Humboldt County, Hydrologic Unit 18010105, on left bank at downstream side of bridge on State Highway 36, 0.9 mi upstream from Grizzly Creek, and 5 mi west of Bridgeville.

DRAINAGE AREA.--222 mi^2.

PERIOD OF RECORD.--October 1950 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 358.18 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1965, at site 2.4 mi upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. No storage or large diversion above station.

AVERAGE DISCHARGE.--35 years, 898 ft^3/s, 650,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48,700 ft^3/s, Dec. 22, 1964, gage height, 24.0 ft, from floodmarks, present site and datum, from rating curve extended above 20,000 ft^3/s on basis of slope-area measurement at gage height 21.3 ft, former site and datum; minimum daily, 4.6 ft^3/s, Aug. 8, 13-14, Sept. 9-15, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 11	1800	*18,800	*14.46	Nov. 27	1800	15,200	12.92

Minimum daily, 7.2 ft^3/s, Aug. 28-31, Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	81	2300	355	143	290	2460	178	81	19	8.3	7.2
2	11	4180	2170	319	156	285	2410	169	82	20	8.7	7.3
3	11	2260	2460	295	157	275	2070	165	79	20	8.8	7.5
4	11	819	1740	285	153	287	1590	159	73	18	8.8	7.8
5	11	521	1570	284	142	340	1300	153	70	17	8.8	8.1
6	11	881	1350	284	136	360	1090	147	68	17	8.8	8.1
7	11	1050	1080	337	2440	393	900	140	65	16	8.7	8.1
8	12	2100	998	400	7610	396	757	135	65	15	8.3	9.1
9	13	1770	820	384	3200	437	670	130	65	14	8.0	12
10	23	5310	1200	391	1810	1080	592	127	58	14	7.8	15
11	63	9950	1700	348	1470	799	528	125	53	14	7.8	15
12	61	11300	1670	317	2600	656	490	123	51	14	7.8	16
13	58	6960	1490	294	1860	538	452	116	47	14	8.3	16
14	52	3950	1120	273	1350	470	436	109	44	13	7.8	16
15	45	2490	1200	257	1120	433	430	104	42	12	7.6	16
16	48	2320	1050	245	961	404	384	94	39	12	7.5	15
17	112	2090	900	234	827	382	358	91	38	12	7.5	14
18	90	3130	811	230	701	344	332	89	35	12	7.7	14
19	98	2180	735	228	603	334	327	87	33	11	8.3	13
20	149	2260	651	217	537	307	298	84	32	11	8.6	13
21	112	2000	573	209	477	292	288	82	31	11	8.8	13
22	81	1780	541	201	440	281	298	78	29	11	8.8	13
23	63	2040	493	194	410	279	285	75	26	11	8.7	12
24	53	3970	475	183	393	801	256	73	25	11	8.3	12
25	46	2340	427	175	369	737	238	72	24	10	8.0	11
26	47	1930	415	171	341	1180	222	72	23	9.7	7.7	11
27	61	7970	411	163	333	1530	215	70	22	9.2	7.4	11
28	119	8440	401	160	301	1430	207	75	22	9.1	7.2	10
29	243	4030	368	160	---	1410	197	94	21	8.8	7.2	10
30	159	2990	348	156	---	1560	186	95	21	8.5	7.2	10
31	111	---	363	147	---	2070	---	83	---	8.1	7.2	---
TOTAL	1996	103092	31830	7896	31040	20380	20266	3394	1364	402.4	250.4	351.2
MEAN	64.4	3436	1027	255	1109	657	676	109	45.5	13.0	8.08	11.7
MAX	243	11300	2460	400	7610	2070	2460	178	82	20	8.8	16
MIN	11	81	348	147	136	275	186	70	21	8.1	7.2	7.2
AC-FT	3960	204500	63130	15660	61570	40420	40200	6730	2710	798	497	697

CAL YR 1984 TOTAL 296427 MEAN 810 MAX 11300 MIN 10 AC-FT 588000
WTR YR 1985 TOTAL 222262 MEAN 609 MAX 11300 MIN 7.2 AC-FT 440900

11480390 MAD RIVER ABOVE RUTH RESERVOIR, NEAR FOREST GLEN, CA

LOCATION.--Lat 40°17'04", long 123°20'03", in NW 1/4 NE 1/4 sec.24, T.2 S., R.7 E., Trinity County, Hydrologic Unit 18010102, Six Rivers National Forest, near right bank on downstream end of pier of Zenia Road Bridge, 1,600 ft downstream from Marshall Creek, 1.2 mi northwest of Ruth, and 6.1 mi southwest of Forest Glen.

DRAINAGE AREA.--93.8 mi^2.

PERIOD OF RECORD.--September to December 1971, July 1972, June to September 1977, April to May 1980 (discharge measurements only), June 1980 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 2,660 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: July 16-29. Records fair except for discharges below 10 ft^3/s, which are poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--5 years (water years 1981-85), 263 ft^3/s, 190,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,300 ft^3/s, Dec. 19, 1981, gage height, 12.49 ft; no flow at times in every year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 11	1000	3,240	7.41	Feb. 8	0300	*3,490	*7.63

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	14	692	79	37	92	762	46	20	3.7		
2	0	730	674	74	37	88	889	42	20	3.6		
3	0	383	702	72	37	80	754	40	19	3.5		
4	0	143	586	67	37	80	568	40	19	3.2		
5	0	84	496	66	35	81	438	38	18	3.0		
6	0	174	402	63	34	81	344	37	18	3.0		
7	0	223	337	80	580	83	277	37	18	2.9		
8	0	580	289	100	1980	85	234	34	18	2.9		
9	0	448	250	105	783	89	203	33	16	2.9		
10	0	1230	315	109	514	109	175	33	16	2.9		
11	0	2040	397	101	431	120	156	31	15	2.9		
12	0	1800	342	93	705	121	138	31	14	1.8		
13	0	1570	304	90	628	109	124	30	13	.59		
14	0	1000	268	83	497	100	113	29	12	.55		
15	0	612	267	78	407	94	106	28	11	.50		
16	0	486	236	72	347	86	99	26	9.8	.50		
17	0	439	211	67	292	82	93	25	9.1	.50		
18	0	659	194	62	249	77	87	23	8.5	.25		
19	0	481	172	59	219	72	82	23	7.9	.25		
20	0	417	156	57	196	67	78	21	7.9	0		
21	0	354	140	56	174	62	79	20	6.9	0		
22	0	279	127	53	156	57	78	20	6.3	0		
23	0	338	119	50	142	56	72	19	6.0	0		
24	0	1130	113	48	130	111	67	19	5.8	0		
25	0	650	107	46	122	103	63	19	5.2	0		
26	0	449	106	43	115	109	60	18	5.1	0		
27	0	1480	100	42	109	155	57	19	4.8	0		
28	0	2060	95	42	99	145	55	19	3.9	0		
29	.13	1140	88	42	---	175	52	21	3.7	0		
30	4.0	828	86	39	---	287	47	22	3.7	0		
31	12	---	86	39	---	516	---	21	---	0		
TOTAL	16.13	22221	8457	2077	9092	3572	6350	864	341.6	39.44	0	0
MEAN	.52	741	273	67.0	325	115	212	27.9	11.4	1.27	0	0
MAX	12	2060	702	109	1980	516	889	46	20	3.7	0	0
MIN	0	14	86	39	34	56	47	18	3.7	0	0	0
AC-FT	32	44080	16770	4120	18030	7090	12600	1710	678	78	0	0

CAL YR 1984 TOTAL 71576.9 MEAN 196 MAX 2060 MIN 0 AC-FT 142000
WTR YR 1985 TOTAL 53030.17 MEAN 145 MAX 2060 MIN 0 AC-FT 105200

11480400 RUTH RESERVOIR NEAR FOREST GLEN, CA

LOCATION.--Lat 40°22'08", long 123°25'56", in NW 1/4 NW 1/4 sec.19, T.1 S., R.7 E., Trinity County, Hydrologic Unit 18010102, Six Rivers National Forest, near center of Robert W. Matthews Dam on Mad River, 5.6 mi west of Forest Glen.

DRAINAGE AREA.--121 mi^2.

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 National Geodetic Vertical Datum of 1929 (levels by Humboldt Bay Municipal Water District).

REMARKS.--Reservoir is formed by earthfill dam; storage began July 1961. Total capacity, 51,800 acre-ft at elevation 2,654.0 ft, crest of spillway. Water is released down Mad River for municipal use. Records given herein represent total contents.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 66,400 acre-ft, Feb. 14, 1975, elevation, 2,665.98 ft; minimum, 11,700 acre-ft, Oct. 24-28, 1977; minimum elevation, 2,607.13 ft, Oct. 28, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 56,400 acre-ft, Nov. 28, elevation, 2,658.08 ft; minimum contents, 26,100 acre-ft, Nov. 1, elevation, 2,627.86 ft.

Capacity table (elevation, in feet NGVD, 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, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31700	26200	53800	49400	47200	50400	52700	50900	50300	48300	43000	36500
2	31600	28500	53800	49100	47200	50300	53500	50900	50200	48100	42800	36200
3	31400	29400	53800	48800	47200	50300	53600	50900	50200	48000	42700	36000
4	31200	29600	53600	48500	47300	50200	53300	50900	50200	47800	42500	35800
5	31000	29700	53300	48200	47300	50200	53000	50800	50200	47700	42300	35600
6	30800	30100	53100	47900	47300	50200	52700	50800	50200	47500	42100	35400
7	30500	30600	52900	47700	49100	50100	52500	50800	50100	47400	41900	35200
8	30400	32200	52700	47500	53300	50000	52300	50800	50100	47200	41700	35000
9	30100	33400	52600	47300	53500	50000	52300	50800	50000	47100	41500	34900
10	30100	37600	52700	47100	53200	50000	52000	50700	50000	46900	41300	34700
11	29800	44100	52800	46800	53000	50100	51900	50700	49900	46700	41000	34500
12	29700	49000	52800	46900	53300	50100	51700	50700	49900	46600	40800	34300
13	29500	52800	52700	46900	53300	50100	51600	50700	49800	46400	40600	34100
14	29300	53600	52600	46900	53000	50200	51600	50700	49700	46200	40400	33800
15	29100	53400	52500	46900	52800	50200	51600	50700	49600	46100	40200	33600
16	29000	53200	52400	46800	52600	50200	51500	50700	49600	45900	40000	33400
17	28800	53200	52300	46800	52400	50100	51500	50600	49600	45700	39800	33200
18	28600	53300	52200	46700	52300	50000	51400	50600	49500	45500	39600	33000
19	28400	53100	52100	46700	52000	50000	51300	50600	49400	45300	39400	32700
20	28200	53000	51900	46700	51900	49800	51300	50600	49400	45100	39100	32500
21	28100	52800	51800	46700	51800	49600	51200	50600	49400	45000	38900	32300
22	27900	52500	51700	46700	51600	49600	51100	50600	49200	44800	38700	32100
23	27700	52900	51500	46800	51500	49700	51000	50500	49100	44600	38500	31900
24	27500	54000	51300	46800	51400	49900	50900	50500	49000	44400	38300	31600
25	27300	53700	51100	46900	51200	49900	50900	50500	48900	44200	38100	31400
26	27100	53300	50900	46900	51000	50100	51000	50500	48800	44100	37800	31200
27	26900	55900	50700	47000	50800	50100	51000	50400	48700	43900	37600	30900
28	26800	56100	50500	47000	50600	50000	51000	50400	48600	43700	37300	30700
29	26600	55000	50200	47100	---	50000	51000	50400	48500	43400	37300	30500
30	26400	54300	50000	47100	---	50300	51000	50300	48400	43300	37100	30600
31	26200	---	49700	47100	---	51200	---	50300	---	43100	36700	---
MAX	31700	56100	53800	49400	53500	51200	53600	50900	50300	48300	43000	36500
MIN	26200	26200	49700	46700	47200	49600	50900	50300	48400	43100	36700	30500
a	2628.00	2656.19	2642.10	2649.74	2652.92	2653.44	2653.23	2652.65	2650.88	2645.80	2639.32	2633.03
b	-5800	+28100	-4600	-2600	+3500	+600	-200	-700	-1900	-5100	-6400	-6100

CAL YR 1984 MAX 56100 MIN 26200 b -5500
WTR YR 1985 MAX 56100 MIN 26200 b -1400

a Elevation, in feet NGVD, at end of month.
b Change in contents, in acre-feet.

11480410 MAD RIVER BELOW RUTH RESERVOIR NEAR FOREST GLEN, CA

LOCATION.--Lat 40°22'16", long 123°26'06", in SW 1/4 SW 1/4 sec.18, T.1 S., R.7 E., Trinity County, Hydrologic Unit 18010102, Six Rivers National Forest, 1,200 ft downstream from Robert W. Matthews Dam, 5.3 mi northwest of Ruth, and 5.8 mi west of Forest Glen.

DRAINAGE AREA.--121 mi^2.

PERIOD OF RECORD.--October 1980 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 2,560 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Sept. 1-4 and Sept. 26-30. Records fair. Flow regulated by R.W. Matthews Dam, capacity, 51,800 acre-ft.

AVERAGE DISCHARGE.--5 years, 373 ft^3/s, 270,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,600 ft^3/s, Dec. 19, 1981, gage height, 14.13 ft; minimum daily, 7.5 ft^3/s, Nov. 14, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,880 ft^3/s, Nov. 28, gage height, 8.90 ft; minimum daily, 37 ft^3/s, May 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	88	1030	254	39	185	301	76	38	50	90	100
2	92	94	870	255	39	144	669	68	38	62	90	100
3	93	93	922	247	39	147	872	72	38	74	90	100
4	92	116	838	255	39	148	794	74	38	74	90	99
5	92	107	737	254	41	150	666	76	38	74	91	100
6	92	88	627	253	41	150	543	64	38	75	92	100
7	91	89	535	255	92	150	438	48	38	79	94	99
8	91	89	466	253	390	150	370	48	38	81	93	99
9	92	88	410	251	828	149	250	48	38	80	94	100
10	91	97	391	252	738	147	327	48	38	80	94	98
11	91	102	448	228	609	147	286	49	44	81	94	101
12	91	197	466	118	669	141	259	49	38	77	99	100
13	91	320	442	122	738	115	223	49	38	78	100	97
14	90	834	406	124	668	77	155	46	38	80	100	97
15	90	868	382	121	571	111	155	43	38	85	99	99
16	91	758	361	122	493	141	154	43	38	91	99	100
17	91	639	321	118	426	141	154	43	38	91	96	100
18	91	753	299	120	374	144	153	44	38	91	95	99
19	92	716	301	90	331	135	153	41	40	91	96	100
20	93	623	279	89	299	147	153	39	38	91	100	100
21	93	545	262	81	277	148	154	40	38	91	100	100
22	91	466	255	56	247	100	154	39	38	91	101	99
23	92	418	255	40	232	69	148	38	38	93	101	99
24	87	896	255	40	222	75	112	38	43	94	100	100
25	86	969	255	40	220	115	86	38	52	93	99	100
26	87	766	255	40	226	167	82	39	50	91	101	100
27	86	1290	255	40	228	236	79	38	51	91	100	100
28	86	2740	255	39	227	239	79	37	51	90	100	100
29	87	2010	255	38	---	236	80	41	50	91	99	100
30	85	1350	257	39	---	239	79	43	49	90	99	100
31	87	---	256	39	---	242	---	38	---	90	95	---
TOTAL	2795	18209	13346	4273	9343	4685	8128	1497	1228	2590	2991	2986
MEAN	90.2	607	431	138	334	151	271	48.3	40.9	83.5	96.5	99.5
MAX	93	2740	1030	255	828	242	872	76	52	94	101	101
MIN	85	88	255	38	39	69	79	37	38	50	90	97
AC-FT	5540	36120	26470	8480	18530	9290	16120	2970	2440	5140	5930	5920

CAL YR 1984 TOTAL 98823 MEAN 270 MAX 2740 MIN 56 AC-FT 196000
WTR YR 1985 TOTAL 72071 MEAN 197 MAX 2740 MIN 37 AC-FT 143000

11480500 MAD RIVER NEAR FOREST GLEN, CA

LOCATION.--Lat 40°27'30", long 123°30'35", in SW 1/4 sec.16, T.1 N., R.6 E., Trinity County, Hydrologic Unit 18010102, Six Rivers National Forest, on right bank 0.7 mi downstream from Lamb Creek, and 11.1 mi northwest of Forest Glen.

DRAINAGE AREA.--143 mi^2.

PERIOD OF RECORD.--June 1953 to current year.

REVISED RECORDS.--WSP 1395: 1954. WSP 1715: 1957(M), 1958(P).

GAGE.--Water-stage recorder. Datum of gage is 2,408.18 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 22, 1955, water-stage recorder at site 0.7 mi upstream at different datum. Jan. 13 to June 18, 1956, nonrecording gage at former site at datum 4.17 ft lower than former datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Ruth Reservoir (station 11480400), 9 mi upstream, beginning in July 1961. No diversion above station.

AVERAGE DISCHARGE.--32 years, 389 ft^3/s, 281,800 acre-ft/yr (unadjusted).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,200 ft^3/s, Dec. 22, 1955, gage height, 24.5 ft present datum, from floodmarks, from rating curve extended above 8,100 ft^3/s on basis of slope-area measurement of maximum flow; minimum daily, 0.60 ft^3/s, Sept. 15, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,480 ft^3/s, Nov. 28, gage height, 8.28 ft; minimum daily, 35 ft^3/s, June 18, 21-24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	94	1300	286	54	223	524	92	40	48	86	94
2	83	403	1110	285	54	170	894	82	39	52	85	96
3	84	171	1160	278	54	170	1080	85	39	72	86	95
4	85	133	1040	283	53	175	968	86	39	73	86	94
5	85	136	925	281	54	174	801	86	39	73	86	93
6	83	135	783	278	54	176	645	83	38	73	87	94
7	83	128	656	296	211	178	522	60	39	76	89	94
8	85	209	572	288	581	182	438	59	39	77	89	94
9	86	171	502	291	981	187	301	59	38	77	88	98
10	90	476	517	286	880	201	379	59	38	77	88	97
11	88	835	567	275	724	193	328	58	43	77	88	95
12	87	824	593	155	834	185	295	57	37	74	92	96
13	86	806	557	152	890	167	269	57	36	74	95	95
14	86	1090	508	152	799	113	184	55	36	77	94	96
15	85	1120	482	149	673	129	182	49	36	78	93	94
16	94	1030	451	147	579	169	180	49	36	86	94	94
17	89	867	400	144	502	168	179	49	36	86	91	94
18	90	1000	373	145	437	169	178	49	35	86	92	90
19	91	911	363	117	385	159	176	46	37	85	90	92
20	90	811	337	111	345	168	175	45	36	86	95	94
21	90	688	315	106	317	168	176	41	35	86	94	94
22	87	577	304	86	286	138	174	43	35	86	96	95
23	88	568	301	59	265	92	170	40	35	87	95	95
24	87	1160	299	57	253	113	144	41	35	87	94	96
25	88	1210	297	57	247	130	106	40	51	89	93	95
26	91	955	297	57	254	191	101	40	47	86	94	96
27	90	2100	295	57	252	277	96	40	49	86	94	96
28	92	3320	293	56	251	284	95	41	50	85	95	96
29	91	2390	291	55	---	300	94	43	49	86	94	96
30	89	1700	292	54	---	347	94	49	49	86	94	95
31	92	---	289	54	---	427	---	40	---	86	92	---
TOTAL	2718	26018	16469	5097	11269	5923	9948	1723	1191	2457	2829	2843
MEAN	87.7	867	531	164	402	191	332	55.6	39.7	79.3	91.3	94.8
MAX	94	3320	1300	296	981	427	1080	92	51	89	96	98
MIN	83	94	289	54	53	92	94	40	35	48	85	90
AC-FT	5390	51610	32670	10110	22350	11750	19730	3420	2360	4870	5610	5640

CAL YR 1984 TOTAL 121506 MEAN 332 MAX 3320 MIN 43 AC-FT 241000
WTR YR 1985 TOTAL 88485 MEAN 242 MAX 3320 MIN 35 AC-FT 175500

11481000 MAD RIVER NEAR ARCATA, CA

LOCATION.--Lat 40°54'35", long 124°03'35", in NW 1/4 NW 1/4 sec.15, T.6 N., R.1 E., Humboldt County, Hydrologic Unit 18010102, on right bank 100 ft upstream from bridge on U.S. Highway 299, 1.0 mi downstream from Warren Creek, and 2.8 mi northeast of Arcata.

DRAINAGE AREA.--485 mi^2.

PERIOD OF RECORD.--October 1910 to September 1913, August 1950 to current year. Monthly discharge only for some periods published in WSP 1315B.

REVISED RECORDS.--WDR CA-72-1: 1965(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 12.79 ft above National Geodetic Vertical Datum of 1929. December 1910 to September 1913, nonrecording gage at site 0.1 mi upstream at different datum. Aug. 15, 1950, to July 23, 1956, water-stage recorder at site 0.6 mi upstream at datum 11.00 ft higher. July 24, 1956, to Apr. 9, 1965, water-stage recorder at datum 5.00 ft higher. Aug. 29 to Oct. 26, 1961, auxiliary water-stage recorder at site 0.5 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good except those for summer months, which are fair. Flow regulated by Ruth Reservoir (station 11480400), 68 mi upstream, beginning in July 1961. Water is diverted 0.5 mi upstream from station for municipal supply and industrial use in Humboldt Bay area.

AVERAGE DISCHARGE (adjusted for diversions).--38 years, 1,525 ft^3/s, 1,105,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 81,000 ft^3/s, Dec. 22, 1964, gage height, 30.7 ft present datum, from highwater profile; minimum daily, 0.10 ft^3/s, Aug. 29, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,200 ft^3/s, Nov. 12, gage height, 13.88 ft; minimum daily, 21 ft^3/s, July 1-3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	175	5280	903	230	565	2880	253	175	21	44	36
2	46	1840	4500	860	286	533	3310	243	191	21	45	54
3	45	3010	5480	832	273	471	3450	234	176	21	39	26
4	43	917	3910	792	246	582	2930	227	168	22	36	32
5	40	536	3060	751	235	628	2360	221	161	26	34	44
6	39	750	2420	724	233	662	1890	212	150	28	32	39
7	37	1130	2000	753	2230	644	1520	204	145	27	31	54
8	60	1850	1710	776	10900	639	1250	196	153	26	32	69
9	69	2610	1510	767	4680	631	1080	190	137	27	32	69
10	101	4040	1530	773	3230	1090	916	194	122	25	31	74
11	183	7750	1990	712	2670	1030	901	192	110	27	39	74
12	130	14400	2590	662	6100	890	823	187	101	31	38	62
13	109	9250	2630	502	4040	784	762	183	94	35	31	94
14	107	6340	2020	459	2780	703	712	177	86	30	34	138
15	93	4160	2370	442	2140	624	615	176	80	29	32	138
16	100	3000	2290	416	1780	600	578	169	73	32	38	94
17	177	2280	1840	412	1460	602	549	165	67	47	28	75
18	149	3850	1630	389	1230	570	516	162	60	49	64	69
19	167	3500	1430	375	1070	542	520	160	54	36	72	69
20	328	4440	1280	347	969	516	479	159	50	42	68	51
21	229	3610	1170	337	866	508	461	156	43	36	69	56
22	159	2320	1080	319	804	487	518	154	39	42	63	75
23	131	2380	1040	303	752	493	475	149	38	45	31	60
24	115	6000	1000	279	704	1240	441	149	32	45	35	35
25	106	5220	966	265	665	1120	392	148	27	37	33	41
26	113	4250	953	266	632	2090	332	146	27	41	35	38
27	160	7760	912	251	609	3650	311	145	33	36	44	45
28	142	14500	924	271	584	4280	289	153	31	34	41	51
29	530	9270	891	256	---	3340	274	177	27	37	36	55
30	333	7060	935	238	---	2140	264	169	22	39	31	57
31	225	---	970	226	---	2190	---	168	---	45	31	---
TOTAL	4307	138198	62311	15658	52398	34844	31798	5618	2672	1039	1249	1874
MEAN	139	4607	2010	505	1871	1124	1060	181	89.1	33.5	40.3	62.5
MAX	530	14500	5480	903	10900	4280	3450	253	191	49	72	138
MIN	37	175	891	226	230	471	264	145	22	21	28	26
AC-FT	8540	274100	123600	31060	103900	69110	63070	11140	5300	2060	2480	3720
a	4680	4310	4110	4240	4100	4470	4370	4870	4330	4640	4830	4790

CAL YR 1984 TOTAL 538110 MEAN 1470 MAX 14500 MIN 27 AC-FT 1067000
WTR YR 1985 TOTAL 351966 MEAN 964 MAX 14500 MIN 21 AC-FT 698100

a Diversion, in acre-feet, for municipal supply and industrial use; furnished by Humboldt Bay Municipal Water District.

11481200 LITTLE RIVER NEAR TRINIDAD, CA

LOCATION.--Lat 41°00'40", long 124°04'50", in NE 1/4 sec.8, T.7 N., R.1 E., Humboldt County, Hydrologic Unit 18010102, on right bank 0.5 mi upstream from Coon Creek, 4.7 mi southeast of Trinidad, and 9.1 mi north of Arcata.

DRAINAGE AREA.--40.5 mi^2.

PERIOD OF RECORD.--October 1955 to current year. Prior to October 1971, published as "at Crannell."

REVISED RECORDS.--WSP 2129: 1956-60. WDR CA-78-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 17.62 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records fair. No storage or diversion above station.

AVERAGE DISCHARGE.--30 years, 146 ft^3/s, 105,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,830 ft^3/s, Mar. 18, 1975, gage height, 14.19 ft, from rating curve extended above 3,100 ft^3/s on basis of slope-area measurement at gage height 14.08 ft; minimum daily, 2.8 ft^3/s, Oct. 20-22, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 17, 18, 1953, reached a stage of 15.7 ft, observed by an employee of Hammond Lumber Co.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Nov. 12	1545	*3,730	*7.77	Feb. 7	2200	3,020	6.94

Minimum daily, 5.2 ft^3/s, Aug. 30-31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	22	409	95	32	54	154	32	42	14	7.2	5.3
2	8.9	253	362	85	46	52	129	32	49	13	6.7	5.9
3	7.9	186	438	80	40	50	113	32	34	13	6.7	6.2
4	7.8	80	290	74	35	87	102	31	32	13	6.7	6.1
5	8.1	54	207	68	31	73	92	30	30	12	6.7	5.7
6	8.4	178	155	65	32	75	84	30	30	12	6.2	5.9
7	8.4	210	124	65	832	72	76	30	71	12	6.2	6.7
8	11	354	102	61	1440	72	70	28	76	12	6.2	6.5
9	15	296	87	60	512	64	67	28	45	11	6.2	6.3
10	45	430	183	55	334	115	63	28	36	11	6.2	6.7
11	63	806	182	52	530	89	61	28	31	11	6.2	6.5
12	27	1970	240	50	948	75	57	26	28	11	5.8	6.2
13	33	1460	215	48	452	67	54	25	26	10	5.7	6.7
14	21	661	157	47	287	60	51	25	24	10	5.7	11
15	15	302	273	44	211	56	50	23	22	10	5.7	9.0
16	26	170	269	43	174	53	49	23	21	9.7	5.7	7.6
17	33	170	195	41	144	52	47	23	20	9.7	5.7	6.8
18	20	521	163	39	121	49	45	22	19	9.7	6.4	6.7
19	31	319	132	38	107	46	47	22	18	9.7	6.7	6.5
20	62	810	115	37	98	44	45	22	17	9.7	6.7	6.2
21	33	433	101	35	87	43	47	22	16	9.7	6.7	5.7
22	22	235	92	35	79	41	58	21	15	9.6	6.4	5.7
23	18	375	82	34	72	59	47	20	14	9.0	6.1	5.7
24	15	543	78	33	69	384	43	20	14	8.8	5.7	5.7
25	13	491	74	32	66	196	41	21	13	8.2	5.7	5.3
26	20	360	74	31	62	342	40	22	13	7.7	5.7	5.7
27	20	723	70	30	59	499	38	21	14	7.2	5.7	5.7
28	55	811	79	41	56	727	37	30	16	7.2	5.7	5.7
29	85	534	73	34	---	479	36	37	16	7.2	5.7	5.7
30	40	529	127	31	---	271	34	28	15	7.2	5.2	5.6
31	27	---	113	30	---	194	---	27	---	7.2	5.2	---
TOTAL	808.7	14286	5261	1513	6956	4540	1877	809	817	312.5	189.1	191.0
MEAN	26.1	476	170	48.8	248	146	62.6	26.1	27.2	10.1	6.10	6.37
MAX	85	1970	438	95	1440	727	154	37	76	14	7.2	11
MIN	7.8	22	70	30	31	41	34	20	13	7.2	5.2	5.3
AC-FT	1600	28340	10440	3000	13800	9010	3720	1600	1620	620	375	379

CAL YR 1984 TOTAL 55368.2 MEAN 151 MAX 1970 MIN 6.7 AC-FT 109800
WTR YR 1985 TOTAL 37560.3 MEAN 103 MAX 1970 MIN 5.2 AC-FT 74500

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA

LOCATION.--Lat 40°54'22", long 123°48'51", in SE 1/4 NE 1/4 sec.15, T.6 N., R.3 E., Humboldt County, Hydrologic Unit 18010102, on right bank 400 ft upstream from Lupton Creek, and 9.1 mi east of town of Blue Lake.

DRAINAGE AREA.--67.7 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1953 to September 1958, October 1972 to current year.

REVISED RECORDS.--WDR CA-78-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 850 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 17-21, Apr. 18-24, and May 9-15. Records good except for period of estimated record, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--18 years, 264 ft^3/s, 191,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,200 ft^3/s, Mar. 18, 1975, gage height, 13.70 ft, from rating curve extended above 6,400 ft^3/s; minimum daily, 2.6 ft^3/s, Aug. 24, Sept. 11-15, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,900 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 12	0500	*4,390	*8.60	Feb. 7	2215	3,200	7.53
Nov. 27	1545	3,210	7.54				

Minimum daily, 4.1 ft^3/s, Aug. 25-31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	36	895	156	84	159	573	96	67	19	6.8	4.2
2	7.5	535	874	147	98	155	583	92	80	17	7.2	5.7
3	6.9	363	843	139	93	148	532	92	61	16	7.1	5.9
4	6.6	162	641	133	88	163	465	88	56	16	6.3	5.4
5	6.9	106	556	128	81	149	434	84	53	15	6.0	4.7
6	6.5	239	469	127	80	145	397	81	54	15	6.0	4.4
7	6.5	225	399	141	809	142	341	79	57	14	5.7	5.4
8	6.9	361	366	134	1280	140	299	75	67	13	5.7	6.7
9	10	325	358	157	582	144	277	72	55	13	5.7	7.4
10	25	676	418	141	420	215	254	68	49	12	5.7	7.4
11	57	1750	394	127	606	197	230	66	44	12	5.1	7.1
12	25	2320	593	120	1190	181	208	62	41	12	4.5	6.4
13	30	1420	504	114	689	165	195	60	39	11	4.6	7.3
14	20	910	411	110	527	156	189	57	36	10	4.6	15
15	15	603	449	106	442	150	181	54	35	10	4.6	12
16	29	494	388	105	382	145	170	52	33	9.9	4.6	8.5
17	38	432	350	104	333	142	160	51	31	9.4	4.4	7.6
18	25	722	310	104	298	136	155	51	29	8.9	7.0	7.6
19	53	568	275	104	274	132	149	48	28	8.5	7.6	7.1
20	69	737	245	102	251	126	163	46	27	8.0	6.2	6.3
21	38	572	230	100	228	124	150	45	26	8.0	5.7	6.0
22	28	458	223	96	221	118	174	43	24	8.4	5.5	5.7
23	22	608	211	93	220	128	150	42	24	8.4	4.9	5.4
24	18	876	199	91	210	315	130	43	23	7.6	4.5	4.9
25	17	673	190	88	196	221	127	44	21	7.1	4.1	4.9
26	32	563	183	85	183	424	119	43	20	6.4	4.1	4.2
27	34	1730	173	83	172	466	114	42	19	6.0	4.1	4.2
28	81	2260	173	89	162	444	110	58	20	5.7	4.1	4.3
29	115	1240	158	85	---	405	105	73	20	5.7	4.1	4.3
30	60	1170	182	79	---	393	100	57	20	6.4	4.1	4.3
31	44	---	172	78	---	488	---	59	---	6.8	4.1	---
TOTAL	940.7	23134	11832	3466	10199	6616	7234	1923	1159	326.2	164.7	190.3
MEAN	30.3	771	382	112	364	213	241	62.0	38.6	10.5	5.31	6.34
MAX	115	2320	895	157	1280	488	583	96	80	19	7.6	15
MIN	6.5	36	158	78	80	118	100	42	19	5.7	4.1	4.2
AC-FT	1870	45890	23470	6870	20230	13120	14350	3810	2300	647	327	377

CAL YR 1984	TOTAL	100151.7	MEAN	274	MAX	2320	MIN	5.6	AC-FT	198700
WTR YR 1985	TOTAL	67184.9	MEAN	184	MAX	2320	MIN	4.1	AC-FT	133300

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973 to current year.
CHEMICAL ANALYSES: Water years 1974-75.
WATER TEMPERATURES: Water years 1973 to current year.
SEDIMENT RECORDS: Water years 1973 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1972 to September 1981, October 1981 to current year (storm season only).
SEDIMENT RECORDS: October 1972 to September 1981, October 1981 to current year (storm season only).

REMARKS.--Zero bedload discharge observed at flows less than 109 ft^3/s. Sediment samples were collected on most days where a water temperature is published.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 33.5°C, Aug. 2, 1977; minimum recorded, 0.5°C, Jan. 9, 1977.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 11,200 mg/L, Mar. 18, 1975; minimum daily mean, 0 mg/L, on several days in 1976, 1980, and 1983-85.
SEDIMENT LOAD: Maximum daily, 276,000 tons, Mar. 18, 1975; minimum daily, 0 ton, on several days in 1976, 1980, and 1983-85.

EXTREMES FOR CURRENT YEAR (storm season only).--
WATER TEMPERATURES: Maximum observed, 19.5°C, Oct. 7, minimum observed, 3.0°C, Dec. 20.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,190 mg/L, Nov. 11; minimum daily mean, 0 mg/L, Oct. 23-25.
SEDIMENT LOAD: Maximum daily, 14,400 tons, Nov. 11; minimum daily, 0 ton, Oct. 23-25.

TEMPERATURE (DEG. C) OF WATER, OCTOBER 1984 TO APRIL 1985
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	8.0	8.0	---	5.0	---	12.0					
2	18.0	10.0	8.5	---	---	---	13.0					
3	---	9.5	7.5	---	5.0	---	---					
4	16.0	10.0	---	---	---	7.0	13.0					
5	---	8.5	8.5	---	6.0	---	---					
6	---	10.0	7.0	8.0	---	7.0	14.0					
7	19.5	9.0	8.0	---	6.5	6.0	---					
8	16.0	9.0	8.0	7.0	6.0	6.5	14.0					
9	---	7.5	8.0	---	7.0	---	14.0					
10	13.0	9.0	8.5	---	8.0	7.0	14.0					
11	13.0	10.0	7.0	---	---	9.0	12.0					
12	13.5	10.0	7.0	---	9.0	10.0	14.0					
13	13.0	10.0	7.0	---	7.0	9.0	14.0					
14	13.5	9.5	7.5	---	7.0	---	---					
15	---	9.0	---	3.5	8.0	10.0	---					
16	10.0	---	---	6.5	8.0	---	12.0					
17	10.5	8.0	---	---	8.0	10.0	---					
18	8.0	9.5	---	7.0	---	---	9.5					
19	11.0	8.0	---	---	8.0	10.5	---					
20	11.5	8.0	3.0	5.0	8.5	10.5	10.0					
21	11.0	7.5	---	---	---	---	---					
22	12.0	8.0	---	5.5	9.5	---	12.0					
23	12.0	8.5	---	---	10.0	8.5	---					
24	13.0	7.0	---	5.5	---	---	12.0					
25	12.0	6.0	---	---	9.0	7.0	11.0					
26	11.5	6.0	---	6.0	---	5.5	---					
27	10.0	8.5	---	---	8.0	5.5	12.0					
28	11.0	8.0	---	6.5	---	5.5	---					
29	11.0	8.0	---	---	---	9.0	13.0					
30	10.0	8.0	---	5.0	---	9.5	---					
31	8.5	---	---	---	---	11.0	---					
MONTH	12.5	8.5	---	---	---	---	---					

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA--Continued

SUSPENDED-SEDIMENT, OCTOBER 1984 TO APRIL 1985

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	1	.02	2	.19	212	512	10	4.2	5	1.1	7	3.0
2	1	.02	913	2150	242	629	9	3.6	5	1.3	7	2.9
3	1	.02	220	217	230	524	8	3.0	3	.75	7	2.8
4	1	.02	37	16	95	164	7	2.5	2	.48	10	4.4
5	1	.02	8	2.3	68	102	6	2.1	2	.44	10	4.0
6	1	.02	130	99	40	51	6	2.1	3	.65	10	3.9
7	1	.02	36	22	39	42	8	3.0	785	4030	9	3.5
8	1	.02	192	227	34	34	7	2.5	646	2920	9	3.4
9	1	.03	52	46	43	42	10	4.2	200	314	11	4.3
10	14	1.9	1070	2470	98	129	3	1.1	140	159	67	41
11	24	3.7	2190	14400	69	73	3	1.0	291	802	12	6.4
12	6	.41	1900	11900	148	253	2	.65	470	1510	9	4.4
13	3	.24	1320	5110	38	52	2	.62	158	294	8	3.6
14	2	.11	500	1230	20	22	3	.89	56	80	8	3.4
15	3	.12	198	322	30	36	2	.57	35	42	10	4.1
16	14	1.6	105	140	25	26	2	.57	27	28	8	3.1
17	12	1.2	86	113	20	19	3	.84	22	20	7	2.7
18	7	.47	314	625	18	15	3	.84	18	14	7	2.6
19	13	2.3	157	241	16	12	4	1.1	14	10	6	2.1
20	12	2.2	267	558	15	9.9	4	1.1	12	8.1	7	2.4
21	2	.21	100	154	14	8.7	3	.81	10	6.2	6	2.0
22	1	.08	45	56	13	7.8	2	.52	9	5.4	6	1.9
23	0	.00	195	555	12	6.8	2	.50	8	4.8	10	3.5
24	0	.00	348	823	12	6.4	3	.74	8	4.5	90	84
25	0	.00	148	269	10	5.1	3	.71	9	4.8	33	20
26	16	1.9	60	91	9	4.4	3	.69	7	3.5	335	609
27	14	1.3	1640	11000	9	4.2	3	.67	6	2.8	118	148
28	85	27	1520	9550	8	3.7	4	.96	7	3.1	87	104
29	47	15	640	2140	8	3.4	2	.46	---	---	55	60
30	9	1.5	570	1800	10	4.9	1	.21	---	---	64	68
31	3	.36	---	---	12	5.6	1	.21	---	---	104	150
TOTAL	---	61.79	---	66326.49	---	2807.9	---	42.96	---	10270.92	---	1358.4

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	115	178										
2	55	87										
3	50	72										
4	20	25										
5	13	15										
6	13	14										
7	13	12										
8	12	9.7										
9	12	9.0										
10	12	8.2										
11	13	8.1										
12	11	6.2										
13	9	4.7										
14	7	3.6										
15	6	2.9										
16	5	2.3										
17	5	2.2										
18	5	2.1										
19	6	2.4										
20	7	3.1										
21	6	2.4										
22	5	2.3										
23	7	2.8										
24	10	3.5										
25	2	.69										
26	2	.64										
27	3	.92										
28	3	.89										
29	3	.85										
30	2	.54										
31	---	---										
TOTAL	---	483.03										

TOTAL LOAD FOR PERIOD: 81351.49 TONS.

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO APRIL 1985

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1984	940.70	61.79	0	62
NOVEMBER ...	23134.00	66326.49	5420	71700
DECEMBER ...	11832.00	2807.90	1350	4160
JANUARY 1985	3466.00	42.96	0	43
FEBRUARY ...	10199.00	10270.92	1460	11700
MARCH	6616.00	1358.40	300	1660
APRIL	7234.00	483.03	426	909
TOTAL	63421.70	81351.49	8956	90234

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
NOV								
12...	1500	1640	10.0	1710	7570	17	24	34
FEB								
08...	0930	1190	4.5	632	2030	17	24	33
08...	1145	1060	4.5	456	1310	20	28	37
12...	1630	957	9.0	366	946	--	--	--
MAR								
26...	1400	418	5.5	529	597	35	44	57

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
NOV								
12...	44	54	62	72	84	93	98	100
FEB								
08...	41	49	57	66	79	90	98	100
08...	47	55	64	73	85	93	96	100
12...	--	--	50	56	65	78	93	97
MAR								
26...	69	79	85	88	92	95	98	100

11482110 LACKS CREEK NEAR ORICK, CA

LOCATION.--Lat 41°03'39", long 123°51'57", unsurveyed, Humboldt County, Hydrologic Unit 18010102, on right bank at private road bridge, 0.3 mi upstream from mouth, and 19 mi southeast of Orick.

DRAINAGE AREA.--16.9 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1980 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 480 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharge. Records good. No regulation or diversion above gage.

AVERAGE DISCHARGE.--5 years, 80.1 ft^3/s, 58,020 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,180 ft^3/s, Dec. 16, 1982, gage height, 26.82 ft; minimum daily, 0.38 ft^3/s, Oct. 10, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 12	0315	*1,840	*26.14	Feb. 11	2115	1,040	25.50
Feb. 7	2015	1,280	25.72				

Minimum daily, 0.56 ft^3/s, Aug. 28-31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.84	11	248	40	11	19	245	10	12	3.5	1.4	.63
2	.84	346	233	36	13	18	217	9.8	15	3.3	1.5	.97
3	.84	193	259	33	13	17	155	11	10	2.9	1.4	.85
4	.84	83	166	30	12	27	110	9.8	9.7	2.8	1.3	.77
5	.84	53	114	29	11	27	85	9.2	9.1	2.7	1.1	.73
6	.88	164	86	27	11	31	69	9.0	14	2.7	1.1	.75
7	.91	131	71	27	420	30	57	8.6	27	2.5	.99	1.2
8	1.2	242	60	24	518	30	49	8.1	30	2.4	.98	1.5
9	1.9	241	52	24	256	29	42	7.6	20	2.3	.98	1.9
10	8.7	406	65	22	166	40	36	7.7	16	2.3	.91	1.7
11	16	793	61	20	336	37	32	7.6	13	2.3	.90	1.3
12	6.3	941	107	19	549	33	29	7.1	11	2.3	.77	1.3
13	12	540	105	19	285	29	26	7.0	9.3	2.3	.73	1.8
14	5.0	342	87	18	173	26	23	6.8	8.4	2.1	.73	3.6
15	3.6	204	112	17	117	24	22	6.7	7.8	1.9	.73	2.5
16	7.1	121	95	16	90	22	21	6.4	7.3	1.9	.73	1.7
17	8.4	125	87	15	73	21	19	6.1	6.8	1.8	.73	1.5
18	5.9	255	80	14	61	19	19	6.1	6.1	1.6	.99	1.3
19	25	189	70	14	53	18	19	5.8	6.0	1.5	1.1	1.1
20	24	304	61	13	47	17	17	5.6	5.6	1.4	1.1	.98
21	12	210	56	13	41	17	18	5.4	5.2	1.4	.98	.91
22	7.5	134	53	12	36	16	20	5.4	4.8	1.5	.85	.84
23	5.7	203	49	11	32	22	18	5.0	4.5	1.4	.74	.79
24	4.8	273	45	11	29	102	17	5.5	4.1	1.3	.73	.73
25	4.3	243	42	10	26	73	15	5.6	4.1	1.2	.65	.68
26	6.1	194	39	9.7	24	271	14	5.6	3.9	1.1	.64	.65
27	5.9	513	37	9.3	22	298	14	5.2	3.6	1.0	.58	.64
28	46	684	37	14	20	254	12	10	3.5	.98	.56	.64
29	45	387	33	11	---	208	11	11	3.4	.98	.56	.66
30	20	327	52	9.9	---	164	11	8.4	3.5	1.2	.56	.67
31	14	---	46	9.5	---	197	---	9.6	---	1.4	.56	---
TOTAL	302.39	8852	2708	577.4	3445	2136	1442	232.7	284.7	59.96	27.58	35.29
MEAN	9.75	295	87.4	18.6	123	68.9	48.1	7.51	9.49	1.93	.89	1.18
MAX	46	941	259	40	549	298	245	11	30	3.5	1.5	3.6
MIN	.84	11	33	9.3	11	16	11	5.0	3.4	.98	.56	.63
AC-FT	600	17560	5370	1150	6830	4240	2860	462	565	119	55	70

CAL YR 1984 TOTAL 28410.35 MEAN 77.6 MAX 941 MIN .64 AC-FT 56350
WTR YR 1985 TOTAL 20103.02 MEAN 55.1 MAX 941 MIN .56 AC-FT 39870

11482110 LACKS CREEK NEAR ORICK, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975-76, 1978 to current year.
CHEMICAL ANALYSES: Water years 1975-76, 1978.
SEDIMENT RECORDS: Water years 1975, 1978 to current year.

REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies," Data Release Number 2. Zero bedload discharge observed for flows less than 175 ft^3/s.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					
24...	1345	4.8	10.0	5	0.06
NOV					
19...	1415	175	11.0	21	9.9
DEC					
13...	1130	104	6.0	11	3.1
JAN					
15...	1300	17	4.5	1	0.05
FEB					
22...	1050	36	7.0	5	0.49
MAR					
15...	1130	24	6.0	10	0.65
APR					
25...	1145	16	10.0	0	--

11482120 REDWOOD CREEK ABOVE PANTHER CREEK NEAR ORICK, CA

LOCATION.--Lat 41°05'21", long 123°54'23", unsurveyed, Humboldt County, Hydrologic Unit 18010102, on right bank 100 ft upstream from Panther Creek, 2.0 mi upstream from south boundary of Redwood National Park, 16 mi southeast of Orick, and 28 mi upstream from mouth.

DRAINAGE AREA.--150 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1980 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 400 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: June 23, July 26-31, Sept. 22-23. Records fair.

AVERAGE DISCHARGE.--5 years, 661 ft^3/s, 478,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,500 ft^3/s, Dec. 16, 1982, gage height, 16.08 ft; minimum daily, 6.2 ft^3/s, Sept. 14, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 12	0700	*7,890	*11.34	Feb. 8	0115	7,440	10.96
Nov. 28	1100	6,980	10.57				

Minimum daily, 7.8 ft^3/s, Aug. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	99	2230	378	139	296	1410	164	123	38	17	8.4
2	16	1350	2140	353	192	283	1370	157	151	35	16	9.9
3	14	1090	2240	325	186	265	1210	155	118	30	16	11
4	14	499	1590	318	175	334	998	153	108	32	15	11
5	14	304	1300	306	160	332	865	146	103	32	14	12
6	14	756	1050	297	156	339	776	140	111	30	13	12
7	14	743	888	292	1830	319	665	135	129	30	12	11
8	14	1180	758	293	4030	310	573	130	164	28	12	13
9	20	1190	666	301	1730	305	524	126	128	27	12	23
10	47	1850	752	289	1210	401	477	123	109	26	12	19
11	156	3740	772	269	1650	388	439	123	97	26	11	17
12	78	5680	1080	256	3480	349	404	119	89	25	10	16
13	94	3720	1020	247	1940	324	362	113	82	25	9.4	16
14	58	2510	836	230	1400	303	339	109	77	23	9.4	29
15	37	1590	945	226	1130	287	324	105	74	21	9.4	29
16	46	1140	843	217	946	272	304	98	71	21	9.4	23
17	104	949	741	210	803	265	286	96	66	21	9.4	20
18	64	1670	685	210	683	232	269	95	61	21	9.6	19
19	124	1340	625	206	611	240	263	92	58	19	12	18
20	187	1940	567	201	563	232	252	90	57	18	15	16
21	117	1490	527	194	506	225	253	86	53	18	14	15
22	84	1130	496	187	462	218	279	82	49	18	13	14
23	60	1410	472	180	432	235	253	81	47	18	9.2	13
24	48	2240	447	174	406	671	237	81	43	17	9.4	12
25	41	1840	428	170	384	508	222	81	44	16	9.4	11
26	48	1500	411	163	358	1300	210	81	42	15	8.9	11
27	80	3590	391	158	329	1840	199	81	41	14	8.4	10
28	184	5720	391	178	307	1710	187	98	40	14	8.3	10
29	321	3170	365	171	---	1470	181	138	38	13	7.9	10
30	169	2870	426	158	---	1200	172	113	38	14	7.9	9.9
31	123	---	410	146	---	1260	---	106	---	16	7.8	---
TOTAL	2417	58300	26492	7303	26198	16713	14303	3497	2411	701	347.8	449.2
MEAN	78.0	1943	855	236	936	539	477	113	80.4	22.6	11.2	15.0
MAX	321	5720	2240	378	4030	1840	1410	164	164	38	17	29
MIN	14	99	365	146	139	218	172	81	38	13	7.8	8.4
AC-FT	4790	115600	52550	14490	51960	33150	28370	6940	4780	1390	690	891

CAL YR 1984 TOTAL 236825 MEAN 647 MAX 5720 MIN 11 AC-FT 469700
WTR YR 1985 TOTAL 159132.0 MEAN 436 MAX 5720 MIN 7.8 AC-FT 315600

11482120 REDWOOD CREEK ABOVE PANTHER CREEK, NEAR ORICK, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974-76, 1980 to current year.
CHEMICAL ANALYSES: Water years 1974-75.
SEDIMENT RECORDS: Water years 1974-76, 1980 to current year.

REMARKS.--Prior to October 1975, published in Geological Survey Open-file Report, "Redwood National Park Studies," Data Release Numbers 1 and 2.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
OCT								
25...	1330	41	12.0	1	0.11	--	--	--
NOV								
13...	1300	3620	10.0	703	6870	26	33	42
29...	1400	2910	8.0	667	5240	--	--	--
DEC								
12...	1415	1260	8.0	213	725	--	--	--
JAN								
16...	1445	210	5.0	34	19	--	--	--
FEB								
08...	1225	3340	7.0	743	6700	17	24	33
08...	1330	3160	7.0	712	6070	--	--	--
13...	1525	1800	7.0	184	894	--	--	--
MAR								
11...	1330	387	8.0	9	9.4	--	--	--
27...	1200	1710	6.0	191	882	--	--	--
APR								
29...	0945	183	11.5	1	0.49	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
OCT								
25...	--	--	--	--	--	--	--	--
NOV								
13...	51	60	70	78	87	95	98	100
29...	--	--	49	--	--	--	--	--
DEC								
12...	--	--	54	64	78	89	96	100
JAN								
16...	--	--	--	--	--	--	--	--
FEB								
08...	43	51	61	71	85	95	99	100
08...	--	--	58	--	--	--	--	--
13...	--	--	59	--	--	--	--	--
MAR								
11...	--	--	--	--	--	--	--	--
27...	--	--	53	--	--	--	--	--
APR								
29...	--	--	--	--	--	--	--	--

11482125 PANTHER CREEK NEAR ORICK, CA

LOCATION.--Lat 41°05'19", long 123°54'26", unsurveyed, Humboldt County, Hydrologic Unit 18010102, on right bank 300 ft upstream from mouth, 16 mi southeast of Orick.

DRAINAGE AREA.--6.07 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1979 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 400 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharge. Records fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--6 years, 29.8 ft^3/s, 21,590 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 650 ft^3/s, Dec. 19, 1981, gage height, 3.92 ft; minimum daily, 0.43 ft^3/s, Oct. 5, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 12	1345	*224	*2.78				

Minimum daily, 0.68 ft^3/s, Aug. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	5.5	113	23	12	21	42	9.5	11	3.8	1.5	.73
2	1.1	27	109	22	12	20	39	9.4	9.6	3.5	1.5	1.1
3	1.1	19	104	20	11	19	36	10	8.3	3.4	1.3	.92
4	1.1	15	87	20	11	25	33	9.4	8.0	3.5	1.3	.89
5	1.1	12	79	20	9.9	22	31	9.4	7.6	3.2	1.1	.77
6	1.1	23	67	18	10	21	29	9.3	8.2	3.2	1.1	.76
7	1.1	24	56	18	58	21	27	8.8	12	3.2	1.1	.89
8	1.9	33	51	18	89	20	26	8.3	10	3.1	1.1	.99
9	2.5	34	44	18	61	19	24	8.1	8.8	2.7	1.1	1.3
10	6.5	43	49	17	52	21	23	8.5	8.2	2.6	.91	1.1
11	6.2	74	43	16	71	19	22	8.4	7.6	2.6	.89	.89
12	3.7	145	49	15	100	18	21	8.1	7.2	2.6	.89	.89
13	5.9	156	45	15	79	17	20	8.0	6.4	2.6	.89	1.2
14	2.6	125	40	15	72	17	18	8.0	6.1	2.6	.89	2.0
15	2.0	96	47	15	63	16	17	8.0	5.9	2.3	.89	1.3
16	4.0	80	44	14	56	16	17	7.6	5.8	2.3	.89	1.1
17	3.4	71	41	14	51	15	16	7.3	5.5	2.3	.89	.91
18	2.8	90	39	14	47	14	16	7.5	5.5	2.0	1.0	.89
19	6.8	81	36	13	44	14	15	7.7	5.2	2.0	1.1	.89
20	6.5	97	34	13	40	14	14	7.6	5.2	1.7	1.1	.75
21	4.4	85	32	13	37	13	16	7.3	5.1	1.9	1.0	.75
22	3.6	79	31	12	34	13	15	7.2	4.8	2.0	.89	.79
23	2.9	85	29	12	31	17	15	6.9	4.8	1.5	.89	.78
24	2.6	87	28	12	29	28	13	6.9	4.8	1.5	.89	.75
25	2.4	86	26	12	27	22	13	6.9	4.3	1.5	.76	.75
26	3.7	83	26	11	25	35	12	6.9	4.0	1.3	.75	.74
27	2.8	121	24	11	24	50	11	6.9	4.0	1.3	.75	.75
28	14	140	25	13	22	64	11	9.0	3.8	1.3	.75	.84
29	11	128	24	11	---	58	10	9.0	3.8	1.3	.75	.80
30	7.3	129	27	11	---	50	9.8	7.6	3.8	1.3	.75	.74
31	6.0	---	24	10	---	45	---	8.2	---	1.5	.68	---
TOTAL	123.4	2273.5	1473	466	1177.9	764	611.8	251.7	195.3	71.6	30.30	27.96
MEAN	3.98	75.8	47.5	15.0	42.1	24.6	20.4	8.12	6.51	2.31	.98	.93
MAX	14	156	113	23	100	64	42	10	12	3.8	1.5	2.0
MIN	1.1	5.5	24	10	9.9	13	9.8	6.9	3.8	1.3	.68	.73
AC-FT	245	4510	2920	924	2340	1520	1210	499	387	142	60	55

CAL YR 1984 TOTAL 10574.3 MEAN 28.9 MAX 156 MIN .89 AC-FT 20970
WTR YR 1985 TOTAL 7466.46 MEAN 20.5 MAX 156 MIN .68 AC-FT 14810

11482125 PANTHER CREEK NEAR ORICK, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1979 to current year.
WATER TEMPERATURES: Water year 1980.
SEDIMENT RECORDS: Water years 1979 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: December 1979 to September 1980.

REMARKS.--Zero bedload discharge observed for flows less than 42 ft^3/s.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					
30...	0900	7.7	9.0	2	0.04
DEC					
05...	1245	80	9.0	23	5.0
19...	1515	36	7.0	7	0.68
JAN					
23...	1230	12	6.0	2	0.06
FEB					
20...	1545	41	7.0	6	0.66
MAR					
13...	1350	18	7.0	2	0.1
APR					
29...	1130	10	9.5	1	0.03

11482130 COYOTE CREEK NEAR ORICK, CA

LOCATION.--Lat 41°07'03", long 123°54'34", unsurveyed, Humboldt County, Hydrologic Unit 18010102, on left bank 300 ft downstream from small left-bank tributary, 1,900 ft upstream from mouth, and 15 mi southeast of Orick.

DRAINAGE AREA.--7.78 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1979 to September 1982, October 1983 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 450 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Oct. 9, 1980, at datum 2.00 ft higher.

REMARKS.--No estimated daily discharges. Records fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--5 years, 40.6 ft^3/s, 29,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,900 ft^3/s, Dec. 19, 1981, gage height 5.98 ft; minimum daily, 0.10 ft^3/s, Sept. 23-25, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 650 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 12	1315	760	4.03	Feb. 7	1830	*797	*4.10
Nov. 27	1300	719	3.95	Feb. 11	1845	670	3.85

Minimum daily, 0.24 ft^3/s, Aug. 26, 27, 30, 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.48	5.4	98	23	6.4	8.8	77	5.0	8.4	.87	.34	.33
2	.40	187	124	20	7.6	8.3	59	4.8	8.0	.80	.35	.42
3	.36	63	113	18	7.3	7.8	44	5.3	5.2	.73	.35	.38
4	.41	35	77	16	7.2	15	35	4.9	4.8	.71	.35	.35
5	.45	22	59	15	6.5	15	28	4.5	4.6	.66	.35	.32
6	.45	83	45	14	6.8	16	23	4.3	7.8	.66	.35	.30
7	.44	63	36	13	286	18	20	4.1	13	.64	.32	.38
8	.71	101	31	12	227	20	17	3.8	12	.58	.33	.46
9	.96	87	26	12	93	21	15	3.7	7.9	.53	.35	.84
10	3.4	185	45	11	71	33	14	3.5	6.1	.47	.32	.70
11	5.8	281	40	9.9	214	25	13	3.5	5.1	.47	.31	.54
12	3.6	392	89	9.1	186	21	11	3.4	4.4	.47	.29	.51
13	6.3	323	70	8.6	91	17	10	3.3	3.7	.47	.29	.61
14	3.0	162	52	8.2	63	15	9.5	3.1	3.2	.46	.29	.91
15	2.1	95	64	7.7	49	14	9.1	2.9	2.9	.43	.29	.68
16	3.2	64	53	7.2	38	13	8.6	2.7	2.7	.42	.29	.58
17	3.8	67	47	7.1	31	12	8.1	2.6	2.4	.37	.29	.51
18	3.0	112	43	7.0	25	11	7.9	2.6	2.2	.35	.35	.50
19	11	84	37	6.8	22	10	8.6	2.6	2.0	.32	.35	.46
20	10	155	32	6.4	20	9.5	7.8	2.5	1.8	.32	.35	.43
21	5.9	93	30	6.1	17	9.1	8.3	2.4	1.7	.32	.32	.40
22	3.3	67	29	5.9	16	8.9	9.7	2.2	1.5	.32	.31	.38
23	2.4	125	26	5.6	14	20	8.9	2.1	1.3	.32	.26	.35
24	2.1	110	23	5.3	13	67	8.0	2.1	1.3	.32	.26	.32
25	2.2	100	21	5.3	12	43	7.3	2.1	1.2	.31	.25	.27
26	4.2	86	20	5.3	11	155	6.8	2.1	1.1	.26	.24	.25
27	4.0	333	18	5.1	10	127	6.5	2.1	1.1	.26	.24	.27
28	31	302	19	6.5	9.3	111	6.1	4.0	1.1	.26	.26	.28
29	20	146	18	5.7	---	97	5.6	4.4	1.0	.26	.26	.29
30	9.3	148	36	5.2	---	81	5.3	3.3	.93	.30	.24	.32
31	6.6	---	28	5.1	---	85	---	3.9	---	.32	.24	---
TOTAL	150.86	4076.4	1449	293.1	1560.1	1114.4	498.1	103.8	120.43	13.98	9.39	13.34
MEAN	4.87	136	46.7	9.45	55.7	35.9	16.6	3.35	4.01	.45	.30	.44
MAX	31	392	124	23	286	155	77	5.3	13	.87	.35	.91
MIN	.36	5.4	18	5.1	6.4	7.8	5.3	2.1	.93	.26	.24	.25
AC-FT	299	8090	2870	581	3090	2210	988	206	239	28	19	26

CAL YR 1984 TOTAL 13525.71 MEAN 37.0 MAX 403 MIN .24 AC-FT 26830
WTR YR 1985 TOTAL 9402.90 MEAN 25.8 MAX 392 MIN .24 AC-FT 18650

11482130 COYOTE CREEK NEAR ORICK, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1979-83, October 1984 to current year.
WATER TEMPERATURES: December 1979 to September 1980.
SEDIMENT RECORDS: November 1979-83, October 1984 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: December 1979 to September 1980.

REMARKS.--Zero bedload discharge observed for flows less than 82 ft^3/s.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
OCT											
25...	1100	2.1	10.0	1	0.01	--	--	--	--	--	--
NOV											
13...	1620	335	10.5	254	230	68	74	78	83	88	100
26...	1300	82	7.5	18	4.0	78	--	--	--	--	--
DEC											
19...	1200	37	5.0	11	1.1	--	--	--	--	--	--
JAN											
16...	1145	7.1	5.5	1	0.02	--	--	--	--	--	--
FEB											
20...	1235	20	5.5	5	0.27	--	--	--	--	--	--
MAR											
13...	1100	18	6.0	3	0.15	--	--	--	--	--	--
APR											
29...	1330	5.6	14.5	4	0.06	--	--	--	--	--	--

11482468 LITTLE LOST MAN CREEK AT SITE NO. 2, NEAR ORICK, CA

LOCATION.--Lat 41°19'20", long 124°01'10", in NE 1/4 SE 1/4 sec.23, T.11 N., R.1 E., Humboldt County, Hydrologic Unit 18010102, Redwood National Park, on right bank 0.8 mi upstream from mouth, and 3.2 mi northeast of Orick.

DRAINAGE AREA.--3.46 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1974 to September 1982, October 1984 to September 1985.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 50 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Mar. 4-8, July 20-23. Records good above 1.0 ft^3/s and fair below except for period of estimated daily record, July 20-23, which is fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--9 years, 10.4 ft^3/s, 7,530 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 808 ft^3/s, Mar. 18, 1975, gage height, 4.32 ft; minimum daily, 0.10 ft^3/s, Dec. 19-26, 28, 1976, Feb. 19, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 2	0215	108	2.12	Nov. 29	0030	197	2.39
Nov. 12	1345	*252	*2.51	Feb. 7	2030	132	2.21
Nov. 20	0745	121	2.17				

Minimum daily, 0.12 ft^3/s, Sept. 24-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.15	1.9	67	6.7	2.0	3.5	16	2.2	4.4	1.0	.44	.27
2	.16	41	47	5.8	2.4	3.4	13	2.1	5.1	.99	.44	.33
3	.16	12	38	5.3	2.3	3.1	10	2.2	3.1	.93	.44	.32
4	.16	6.4	29	5.1	2.3	5.8	8.8	1.9	2.8	.93	.44	.27
5	.25	4.8	23	4.8	2.0	6.2	7.4	1.9	2.9	.86	.44	.24
6	.27	17	21	4.5	2.0	6.4	6.4	1.9	3.6	.85	.44	.26
7	.27	23	18	4.2	33	6.0	5.6	1.8	11	.79	.41	.38
8	.26	44	15	4.0	66	5.6	5.2	1.7	13	.78	.40	.32
9	.31	37	12	3.8	37	5.1	4.8	1.7	8.5	.78	.40	.29
10	.35	38	15	3.8	25	5.6	4.5	1.8	6.7	.78	.40	.29
11	4.7	82	16	3.5	32	4.9	4.3	1.7	5.2	.78	.36	.26
12	1.7	181	25	3.4	71	4.6	3.8	1.6	4.2	.78	.33	.27
13	1.1	164	32	3.5	39	4.2	3.6	1.6	3.6	.78	.33	.44
14	1.6	106	23	3.7	25	4.1	3.4	1.6	3.2	.78	.33	.83
15	.64	47	32	2.8	18	4.3	3.3	1.5	3.0	.75	.33	.40
16	1.0	26	28	2.7	16	3.5	3.2	1.4	3.0	.67	.33	.26
17	.83	22	23	2.5	13	3.4	2.9	1.5	3.0	.65	.33	.23
18	.64	40	19	2.4	11	3.1	2.8	1.4	3.0	.65	.45	.22
19	4.0	36	18	2.4	9.4	2.9	2.8	1.4	2.4	.65	.48	.18
20	3.4	84	17	2.3	8.3	2.8	2.7	1.4	1.9	.61	.43	.16
21	1.6	57	15	2.2	7.3	2.5	2.9	1.3	1.7	.61	.38	.16
22	.97	36	13	2.2	6.4	2.4	3.8	1.3	1.5	.61	.36	.15
23	.77	39	11	2.0	5.6	4.0	3.4	1.2	1.5	.58	.35	.14
24	.80	54	11	2.0	5.3	17	3.1	1.2	1.5	.54	.33	.12
25	.97	52	8.9	2.0	4.7	15	2.8	1.2	1.4	.54	.30	.12
26	3.0	40	8.2	2.0	4.5	19	2.8	1.2	1.3	.48	.28	.12
27	2.1	73	7.2	1.7	4.2	24	2.7	1.2	1.2	.44	.26	.12
28	6.4	125	7.2	2.4	3.7	48	2.6	2.6	1.2	.44	.26	.12
29	4.0	96	7.2	2.3	---	43	2.5	2.1	1.1	.44	.26	.12
30	2.4	86	8.1	1.9	---	26	2.2	1.5	1.1	.44	.26	.12
31	1.8	---	8.0	1.8	---	18	---	2.2	---	.44	.23	---
TOTAL	46.76	1671.1	622.8	99.7	458.4	307.4	143.3	51.3	107.1	21.35	11.22	7.51
MEAN	1.51	55.7	20.1	3.22	16.4	9.92	4.78	1.65	3.57	.69	.36	.25
MAX	6.4	181	67	6.7	71	48	16	2.6	13	1.0	.48	.83
MIN	.15	1.9	7.2	1.7	2.0	2.4	2.2	1.2	1.1	.44	.23	.12
AC-FT	93	3310	1240	198	909	610	284	102	212	42	22	15

WTR YR 1985 TOTAL 3547.94 MEAN 9.72 MAX 181 MIN .12 AC-FT 7040

11482468 LITTLE LOST MAN CREEK AT SITE NO. 2, NEAR ORICK, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974-82, October 1984 to current year.
CHEMICAL ANALYSES: Water years 1974-77.
SEDIMENT RECORDS: Water years 1974-76, 1978-82, October 1984 to current year.

REMARKS.--Prior to October 1975, published in Geological Survey Open-file Report 766-78, "Redwood National Park Studies," Data Release Number 2. Zero bedload discharge observed for flows less than 22 ft^3/s.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
OCT						
23...	1420	0.86	10.0	4	0.01	--
NOV						
13...	1130	121	10.5	44	14	66
13...	1245	108	10.5	44	13	--
23...	1115	22	9.5	11	0.65	--
DEC						
17...	1400	22	8.0	5	0.3	--
JAN						
21...	1245	2.2	7.0	4	0.02	--
FEB						
11...	1415	19	7.0	6	0.31	--
MAR						
08...	1145	5.9	6.0	1	0.02	--
APR						
22...	1230	3.8	9.5	2	0.02	--

11482500 REDWOOD CREEK AT ORICK, CA

LOCATION.--Lat 41°17'18", long 124°03'27", in NE 1/4 NE 1/4 sec.4, T.10 N., R.1 E., Humboldt County, Hydrologic Unit 18010102, on left bank at upstream side of bridge on U.S. Highway 101 at Orick, 0.9 mi downstream from Prairie Creek.

DRAINAGE AREA.--278 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1911 to September 1913, October 1953 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1315-B: 1912-13.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 5.16 ft above National Geodetic Vertical Datum of 1929. Sept. 10, 1911, to Aug. 9, 1913, nonrecording gage at different datum.

REMARKS.--Estimated daily discharges: May 22-28, Sept. 15-19. Records good. No regulation or diversion above station.

AVERAGE DISCHARGE.--34 years, 1,079 ft^3/s, 781,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 50,500 ft^3/s, Dec. 22, 1964, gage height, 24.0 ft, from outside high-water marks; minimum daily, 9.3 ft^3/s, Oct. 17-19, 21, 23-26, 1974.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 18, 1953, reached a stage of 23.95 ft, from floodmarks, discharge, 50,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 9,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 12	1615	11,200	14.34	Feb. 8	0445	*11,400	*14.40
Nov. 28	1445	10,100	13.88				

Minimum daily, 13 ft^3/s, Aug. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	176	4160	740	267	556	2020	305	266	71	31	14
2	30	1630	3370	692	336	531	1910	289	317	71	31	21
3	29	2110	3980	651	340	503	1680	285	248	68	29	19
4	27	1070	2780	619	315	679	1420	277	224	63	28	17
5	29	732	2220	592	284	694	1210	266	210	63	25	17
6	29	1110	1830	571	273	704	1090	255	225	62	24	17
7	29	1400	1580	562	1640	663	984	244	350	60	23	20
8	28	1790	1400	550	7150	641	888	233	455	56	21	19
9	37	2210	1260	541	3260	603	824	223	317	49	21	19
10	121	2890	1330	532	2290	710	793	217	255	45	20	25
11	319	4530	1430	495	2260	722	738	214	220	45	19	23
12	201	10600	1650	474	5790	647	676	207	192	46	18	22
13	179	7650	1830	453	3460	596	629	204	176	46	17	25
14	138	4990	1540	433	2420	553	591	198	168	46	17	36
15	90	2960	1710	415	1880	527	559	187	163	45	17	33
16	86	2020	1640	398	1590	503	544	183	153	42	17	27
17	147	1610	1450	380	1380	486	523	173	141	40	17	25
18	131	2900	1360	373	1220	461	494	172	128	40	21	24
19	181	2500	1250	365	1090	437	485	168	122	38	22	23
20	421	3870	1140	353	1000	417	475	162	119	36	21	21
21	266	3090	1080	340	911	411	452	161	110	36	21	21
22	166	2270	1020	328	843	390	475	158	100	36	20	20
23	120	2240	946	315	794	457	485	154	93	35	19	18
24	97	3940	884	303	753	1220	450	158	78	34	18	17
25	82	3450	840	293	714	1030	408	161	80	31	17	18
26	122	2940	813	285	670	1650	388	158	80	30	16	16
27	137	5330	773	275	629	3080	363	154	80	28	16	16
28	197	8960	776	326	586	3160	345	198	80	27	16	16
29	637	5830	731	306	---	2850	340	249	78	27	15	16
30	370	5130	828	277	---	2130	314	228	73	28	14	16
31	233	---	810	266	---	1930	---	211	---	29	13	---
TOTAL	4700	101928	48411	13503	44145	29941	22553	6452	5301	1373	624	621
MEAN	152	3398	1562	436	1577	966	752	208	177	44.3	20.1	20.7
MAX	637	10600	4160	740	7150	3160	2020	305	455	71	31	36
MIN	21	176	731	266	267	390	314	154	73	27	13	14
AC-FT	9320	202200	96020	26780	87560	59390	44730	12800	10510	2720	1240	1230

CAL YR 1984 TOTAL 421235 MEAN 1151 MAX 10600 MIN 20 AC-FT 835500
WTR YR 1985 TOTAL 279552 MEAN 766 MAX 10600 MIN 13 AC-FT 554500

11482500 REDWOOD CREEK AT ORICK, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1955-56, 1959 to current year.
CHEMICAL ANALYSES: Water years 1959-66, 1973-81.
WATER TEMPERATURES: Water years 1966 to current year.
SEDIMENT RECORDS: Water years 1955-56, 1970 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1965 to September 1981, October 1981 to current year (storm season only).
SEDIMENT RECORDS: March 1970 to September 1981, October 1981 to current year (storm season only).

REMARKS.--Sediment samples were collected on most days where a water temperature is published.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 24.0°C, July 10, 1976; minimum recorded, 1.0°C, Dec. 14, 1967.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 9,610 mg/L, Mar. 18, 1975; minimum daily mean, 1 mg/L, on many days in 1970, 1973-74, 1976, 1978-81, several days in 1983-85.
SEDIMENT LOAD: Maximum daily, 1,070,000 tons, Mar. 18, 1975; minimum daily, 0.03 ton, Oct. 7, 8, 11, 12, 1970 Oct. 9, 10, 1979, and several days during 1981.

EXTREMES FOR CURRENT YEAR (storm season only).--
WATER TEMPERATURES: Maximum observed, 16.5°C, Apr. 29; minimum observed, 5.5°C, Jan. 24.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,030 mg/L, Nov. 12; minimum daily mean, 1 mg/L, Oct. 24, 25.
SEDIMENT LOAD: Maximum daily, 58,200 tons, Nov. 12; minimum daily, 0.11 ton, Oct. 1.

TEMPERATURE (DEG. C) OF WATER, OCTOBER 1984 TO APRIL 1985
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SE
1	---	10.5	7.5	8.0	7.0	10.0	10.0					
2	---	12.0	9.0	7.5	8.0	8.0	11.5					
3	15.0	11.0	9.5	---	8.0	8.0	11.0					
4	15.0	13.0	9.0	9.0	8.0	8.0	12.0					
5	---	11.5	10.5	8.5	8.0	7.5	12.5					
6	---	12.0	10.0	9.5	8.0	7.0	11.5					
7	---	11.0	10.5	10.0	8.0	8.0	11.5					
8	16.0	11.0	10.0	8.0	7.5	10.0	11.5					
9	15.5	9.5	10.0	10.0	6.5	8.0	12.5					
10	14.0	12.0	9.5	9.5	8.0	10.0	13.0					
11	15.5	12.0	9.0	8.5	8.0	9.0	12.0					
12	14.5	12.0	8.5	9.5	8.5	9.0	12.5					
13	15.0	11.0	8.5	7.5	9.5	11.5	14.5					
14	16.0	10.0	8.0	8.5	9.0	10.5	14.5					
15	15.0	11.0	7.5	10.0	9.0	9.0	11.5					
16	12.0	11.5	7.0	11.0	9.0	---	12.0					
17	11.5	10.0	7.5	10.5	7.5	11.5	11.0					
18	11.5	11.0	7.0	9.5	9.5	10.0	10.0					
19	12.0	10.5	7.5	10.0	8.5	9.0	11.0					
20	11.5	9.5	7.0	---	8.5	10.5	11.0					
21	12.0	10.0	8.5	9.0	9.5	9.0	10.0					
22	15.5	9.5	7.5	9.0	9.5	8.5	12.0					
23	14.5	9.5	6.0	9.5	11.0	9.0	13.5					
24	14.5	8.0	7.0	5.5	9.0	9.0	10.5					
25	---	8.0	6.0	8.5	10.0	8.0	12.5					
26	14.5	8.0	8.0	8.5	8.5	6.5	11.5					
27	12.5	10.5	8.5	8.0	12.5	6.0	14.0					
28	12.0	10.5	7.5	8.0	8.5	7.5	13.0					
29	12.0	9.0	7.5	8.0	---	8.0	16.5					
30	11.5	10.5	8.5	8.0	---	8.5	15.5					
31	11.5	---	8.0	8.5	---	---	---					
MONTH	13.5	10.5	8.5	9.0	8.5	9.0	12.0					

11482500 REDWOOD CREEK AT ORICK, CA--Continued

SUSPENDED-SEDIMENT, OCTOBER 1984 TO APRIL 1985

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	2	.11	3	1.4	262	2940	8	16	3	2.2	9	14
2	5	.41	439	3330	228	2130	6	11	3	2.7	6	8.6
3	3	.23	315	1790	412	4610	5	8.8	4	3.7	3	4.1
4	5	.36	60	173	180	1350	5	8.4	2	1.7	19	35
5	5	.39	18	36	115	689	6	9.6	4	3.1	14	26
6	4	.31	120	430	87	430	4	6.2	5	3.7	12	23
7	4	.31	8	306	65	277	4	6.1	444	4860	12	21
8	3	.23	227	1430	58	219	4	5.9	1210	26400	10	17
9	3	.30	149	889	41	139	4	5.8	400	3520	8	13
10	30	18	285	2420	105	377	4	5.7	166	1030	17	33
11	35	30	1200	21800	94	363	4	5.3	293	2620	16	31
12	5	2.7	2030	58200	130	579	5	6.4	872	14400	11	19
13	5	2.4	680	14000	110	544	3	3.7	232	2170	10	16
14	1	.37	363	4890	70	291	4	4.7	112	732	8	12
15	2	.49	198	1580	90	416	4	4.5	79	401	7	10
16	8	1.9	116	633	60	266	3	3.2	65	279	5	6.8
17	7	2.8	130	605	41	161	3	3.1	55	205	4	5.2
18	2	.71	276	2160	35	129	4	4.0	48	158	4	5.0
19	33	24	150	1010	32	108	2	2.0	33	97	4	4.7
20	34	39	378	4260	26	80	2	1.9	26	70	3	3.4
21	5	3.6	150	1250	25	73	3	2.8	21	52	3	3.3
22	2	.90	87	533	29	80	2	1.8	22	50	3	3.2
23	2	.65	134	1100	30	77	3	2.6	21	45	8	12
24	1	.26	511	5680	30	72	2	1.6	17	35	245	833
25	1	.22	187	1740	20	45	3	2.4	12	23	63	175
26	4	1.3	113	897	16	35	3	2.3	10	18	335	2310
27	3	1.1	896	19200	16	33	3	2.2	10	17	330	2740
28	23	20	1230	29700	11	23	6	5.3	9	14	198	1690
29	75	134	530	8340	9	18	4	3.3	---	---	130	1000
30	12	12	370	5120	27	60	2	1.5	---	---	82	472
31	5	3.1	---	---	15	33	4	2.9	---	---	65	339
TOTAL	---	302.15	---	193503.4	---	16647	---	151.0	---	57213.1	---	9885.3

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	132	720										
2	140	722										
3	76	345										
4	70	268										
5	44	144										
6	34	100										
7	30	80										
8	24	58										
9	23	51										
10	21	45										
11	20	40										
12	21	38										
13	18	31										
14	14	22										
15	14	21										
16	13	19										
17	15	21										
18	11	15										
19	9	12										
20	6	7.7										
21	8	9.8										
22	9	12										
23	7	9.2										
24	7	8.5										
25	6	6.6										
26	7	7.3										
27	8	7.8										
28	7	6.5										
29	7	6.4										
30	6	5.1										
31	---	---										
TOTAL	---	2838.9										

TOTAL LOAD FOR PERIOD:280540.85 TONS.

11482500 REDWOOD CREEK AT ORICK, CA--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO APRIL 1985

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1984	4700.00	302.15	256	558
NOVEMBER ...	101928.00	193503.40	66200	260000
DECEMBER ...	48411.00	16647.00	26200	42800
JANUARY 1985	13503.00	151.00	1770	1920
FEBRUARY ...	44145.00	57213.10	24400	81600
MARCH	29941.00	9885.30	12900	22800
APRIL	22553.00	2838.90	7650	10500
TOTAL	265181.00	280540.85	139376	420178

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
NOV								
20...	1515	4740	9.5	610	7810	15	19	25
FEB								
08...	1025	7470	8.0	1330	26800	20	27	37
12...	0925	6600	9.0	891	15900	--	--	--
12...	1135	6100	9.0	740	12200	18	25	34

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
NOV								
20...	33	41	49	58	67	82	92	96
FEB								
08...	49	60	72	82	96	99	100	--
12...	--	--	72	83	95	99	100	--
12...	44	53	62	69	80	89	94	100

11482500 REDWOOD CREEK AT ORICK, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	STREAM-FLOW, INSTAN-TANEOUS (CFS)	STREAM WIDTH (FT)	SEDI-MENT DIS-CHARGE, BEDLOAD (TONS/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
NOV								
20...	1700	9.5	16	4560	185	4100	1	5
JAN								
14...	1525	6.0	22	429	131	82	--	2
FEB								
12...	1235	8.5	14	5890	216	3460	1	5
MAR								
06...	1300	7.0	25	712	152	262	--	7
APR								
23...	1205	13.0	21	480	121	339	--	4

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM
NOV							
20...	14	30	47	68	86	97	100
JAN							
14...	13	49	81	93	98	100	--
FEB							
12...	11	26	44	64	86	99	100
MAR							
06...	26	46	71	90	99	100	--
APR							
23...	30	64	88	99	100	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	STREAM-FLOW, INSTAN-TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
FEB											
12...	1340	8.5	5	5690	2	9	26	47	69	87	100

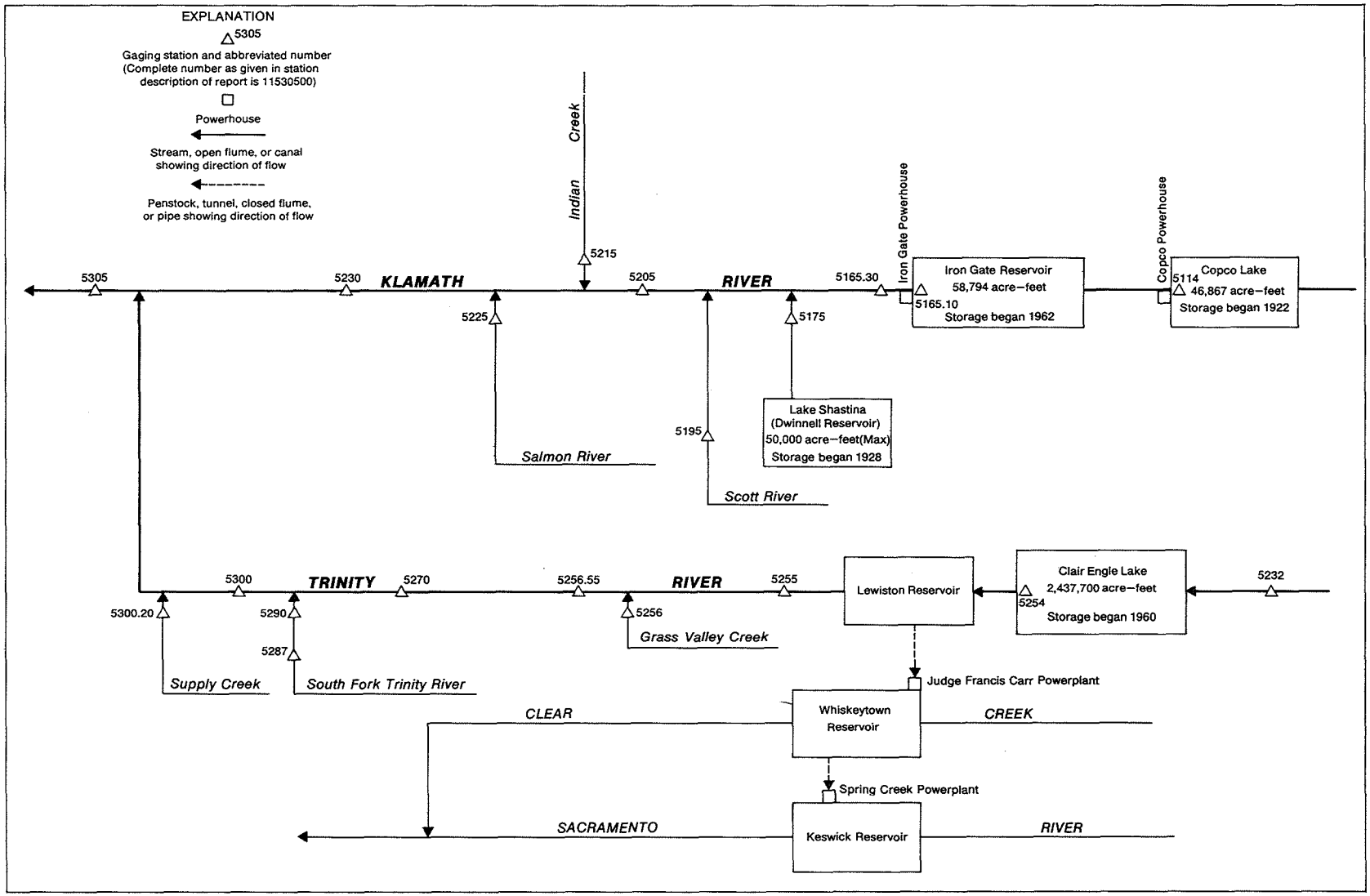


FIGURE 21. — Schematic diagram showing diversions and storage in Klamath River and Trinity River basins.

RESERVOIRS IN KLAMATH RIVER BASIN, CA

11511400 COPCO LAKE NEAR COPCO.--Lat 41°58'46", long 122°20'00", in SE 1/4 SW 1/4 sec.29, T.48 N., R.4 W., Siskiyou County, Hydrologic Unit 18010206, 12.7 mi northeast of Hornbrook. DRAINAGE AREA, 4,300 mi^2. PERIOD OF RECORD, October 1967 to current year (monthend contents only). GAGE, pressure device and telemark read once daily. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Pacific Power and Light Co.).

REMARKS.--Lake is formed by gravity-type dam completed in 1922. Usable capacity, 17,107 acre-ft between elevations 2,607.5 ft, top of tainter gates, and 2,588.5 ft, invert to powerhouse intake. Dead storage 29,760 acre-ft below elevation 2,588.5 ft. Figures given herin represent total contents at 0800 hours. Lake is used for power generation.

COOPERATION.--Records were provided by Pacific Power and Light Co.

EXTREMES (at 0800) FOR PERIOD OF RECORD.--Maximum contents, 46,818 acre-ft, June 24, 1969, elevation, 2,607.45 ft; minimum since first filling, 30,360 acre-ft, Aug. 19, 1971, elevation, 2,589.24 ft.

EXTREMES (at 0800) FOR CURRENT YEAR.--Maximum contents, 46,087 acre-ft, Aug. 25, elevation, 2,606.71 ft; minimum, 40,549 acre-ft, Nov. 8, elevation, 2,600.91 ft.

11516510 IRON GATE RESERVOIR NEAR HORNBROOK.--Lat 41°55'58", long 122°26'06", in SW 1/4 SW 1/4 sec.9, T.47 N., R.5 W., Siskiyou County, Hydrologic Unit 18010206, 6.6 mi northeast of Hornbrook. DRAINAGE AREA, 4,573 mi^2. PERIOD OF RECORD, October 1967 to current year (monthend contents only). GAGE, pressure device and telemark read once daily. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Pacific Power and Light Co.).

REMARKS.--Reservoir is formed by earth and rockfill dam completed in 1962. Usable capacity 58,387 acre-ft, between elevations 2,328.0 ft, crest of spillway, and 2,184.75 ft, invert to diversion tunnel. Dead storage 407 acre-ft. Normal operating pool is from elevations 2,305.0 ft, capacity, 39,963 acre-ft to 2,328.0 ft, capacity, 58,794 acre-ft. Figures herein represent total contents at 0800 hours. Reservoir is used for power generation and recreation.

COOPERATION.--Records were provided by Pacific Power and Light Co.

EXTREMES (at 0800) FOR PERIOD OF RECORD.--Maximum contents, 61,776 acre-ft, Mar. 3, 1972, elevation, 2,330.96 ft; minimum since first filling, 50,103 acre-ft, Dec. 9, 1968, elevation, 2,318.40 ft.

EXTREMES (at 0800) FOR CURRENT YEAR.--Maximum contents, 60,501 acre-ft, Apr. 11, elevation, 2,329.71 ft; minimum, 56,332 acre-ft, Sept. 30, elevation, 2,325.43 ft.

MONTHEND ELEVATION NGVD AND CONTENTS AT 0800, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
	11511400 COPCO LAKE			11516510 IRON GATE RESERVOIR		
Sept. 30	2605.53	44933	--	2326.35	57202	--
Oct. 31	2602.53	42064	-2869	2329.05	59834	+2632
Nov. 30	2601.05	40679	-1385	2329.08	59865	+31
Dec. 31	2602.20	41753	+1074	2328.53	59319	-546
CAL YR 1984	--	--	+328	--	--	-1121
Jan. 31	2603.70	43173	+1420	2327.48	58289	-1030
Feb. 28	2604.92	44342	+1169	2327.43	58240	-49
Mar. 31	2602.27	41820	-2522	2328.88	58665	+425
Apr. 30	2603.13	42630	+810	2328.56	59348	+683
May 31	2605.78	45177	+2547	2327.15	57968	-1380
June 30	2605.42	44826	-351	2327.45	58260	+292
July 31	2606.08	45468	+642	2326.03	56896	-1364
Aug. 31	2605.90	45293	-175	2327.10	57919	+1023
Sept. 30	2605.69	45089	-204	2325.10	56022	-1897
WTR YR 1985	--	--	+156	--	--	-1180

11516530 KLAMATH RIVER BELOW IRON GATE DAM, CA

LOCATION.--Lat 41°55'41", long 122°26'35", in SE 1/4 NE 1/4 sec.17, T.47 N., R.5 W., Siskiyou County, Hydrologic Unit 18010206, on left bank 0.1 mi downstream from Bogus Creek, 0.6 mi downstream from Iron Gate Dam, and 5.9 mi northeast of Hornbrook.

DRAINAGE AREA.--4,630 mi^2, 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 above National Geodetic Vertical Datum of 1929 (levels by Pacific Power and Light Co.).

REMARKS.--No estimated daily discharges. Records excellent. Flow regulated by Upper Klamath Lake, capacity, 523,700 acre-ft, Iron Gate Reservoir (station 11516510), other smaller reservoirs, and diversions above station.

AVERAGE DISCHARGE.--25 years, 2,297 ft^3/s, 1,664,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,400 ft^3/s, Dec. 22, 1964, gage height, 13.63 ft, from rating curve extended above 15,000 ft^3/s on basis of slope-area measurement of peak flow; minimum daily, 647 ft^3/s, Oct. 30, Nov. 6, 1960, Sept. 24, Oct. 1, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,970 ft^3/s, Apr. 11, gage height, 8.07 ft; minimum daily, 714 ft^3/s, July 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1780	4790	5000	2980	1670	1790	4210	2880	1030	730	1010	1320
2	1800	4800	4880	2890	1670	1790	4250	2430	1020	720	1010	1320
3	1800	4860	4940	2670	1680	1790	4170	2250	1020	720	1010	1320
4	1980	4680	4980	2660	1680	1790	4210	2170	1260	717	1010	1330
5	2260	4730	4870	2670	1680	1790	4220	2150	1690	714	1010	1330
6	2290	5190	4950	2670	1680	1790	4240	2060	1790	716	1000	1340
7	2380	5160	4830	2670	1720	1820	4290	1770	1780	717	1000	1360
8	2470	5090	4800	2770	1850	2170	4490	1770	2090	717	1010	1350
9	2960	4840	4900	2530	1750	2290	5390	1730	2300	715	1000	1460
10	3080	5210	5000	2380	1710	2290	6260	1240	2190	715	1000	1760
11	3050	5470	5060	2250	1750	2300	7830	1170	1410	716	1000	1750
12	2940	5720	5120	2240	1860	2330	7290	1170	1240	734	1020	1700
13	3030	5510	4720	2250	1810	2330	6480	1120	900	733	1010	1710
14	2960	5710	4470	2290	1800	2340	6450	1020	898	731	1010	1710
15	2930	5520	4170	2290	1800	2360	6070	1020	898	723	1010	1640
16	3050	5510	4110	2340	1800	2370	4690	1020	900	720	1010	1640
17	3010	5490	3680	2110	1790	2400	3700	1020	904	734	1010	1810
18	3220	5440	3290	1780	1790	2410	3550	1020	757	717	1010	1810
19	3690	5250	3250	1700	1790	2380	3500	1020	731	715	1010	1810
20	4510	5830	3210	1700	1790	2440	3470	1020	732	715	1010	1810
21	4330	5470	3030	1700	1790	2770	3450	1030	728	717	1010	1810
22	4500	5270	3020	1700	1790	2870	2880	1020	730	723	1010	1810
23	4370	5290	3010	1700	1790	3340	3330	1020	728	724	1010	1800
24	4510	5490	3000	1700	1790	3390	3380	1040	724	723	1010	1810
25	4450	5340	3000	1700	1790	3310	3450	1030	725	720	1020	1810
26	4440	5220	3000	1680	1790	3230	3830	1030	730	720	1010	1810
27	4450	5030	3000	1680	1790	3260	3690	1040	730	721	1010	1810
28	4550	5370	3000	1670	1790	3670	3570	1040	736	724	1020	1810
29	4510	5220	2990	1670	---	3880	3710	1020	733	727	1020	1810
30	4460	5130	3000	1680	---	3980	3300	1020	740	732	1020	1780
31	4170	---	2990	1670	---	4210	---	1030	---	741	1040	---
TOTAL	103930	157630	123270	66390	49390	80880	133350	42370	32844	22391	31340	49340
MEAN	3353	5254	3976	2142	1764	2609	4445	1367	1095	722	1011	1645
MAX	4550	5830	5120	2980	1860	4210	7830	2880	2300	741	1040	1810
MIN	1780	4680	2990	1670	1670	1790	2880	1020	724	714	1000	1320
AC-FT	206100	312700	244500	131700	97970	160400	264500	84040	65150	44410	62160	97870

CAL YR 1984 TOTAL 1238441 MEAN 3384 MAX 8120 MIN 722 AC-FT 2456000
WTR YR 1985 TOTAL 893125 MEAN 2447 MAX 7830 MIN 714 AC-FT 1772000

11517500 SHASTA RIVER NEAR YREKA, CA

LOCATION.--Lat 41°49'23", long 122°35'40", in SE 1/4 NE 1/4 sec.24, T.46 N., R.7 W., Siskiyou County, Hydrologic Unit 18010207, on right bank 24 mi downstream from Lake Shastina, 0.5 mi upstream from mouth, and 7 mi north of Yreka.

DRAINAGE AREA.--793 mi^2.

PERIOD OF RECORD.--October 1933 to December 1941, December 1944 to current year.

REVISED RECORDS.--WSP 1929: Drainage area.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 2,000 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Nov. 2, 1933, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Flow partly regulated by Lake Dwinnell beginning in 1928; storage limited to 50,000 acre-ft. Many diversions above station for irrigation.

AVERAGE DISCHARGE.--48 years (water years 1934-41, 1946-85), 191 ft^3/s, 138,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,500 ft^3/s, Dec. 22, 1964, gage height, 12.92 ft, in gage well, 13.85 ft, from floodmarks, from rating curve extended above 4,100 ft^3/s on basis of slope-area measurement of peak flow; minimum daily, 1.5 ft^3/s, Aug. 24, 1981, July 17, 1985.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 3	0945	450	4.12	Nov. 28	1000	*728	*4.73

Minimum daily, 1.5 ft^3/s, July 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110	200	363	249	219	256	194	69	179	21	60	18
2	108	290	324	241	221	257	199	76	196	28	40	45
3	118	418	356	241	225	245	194	83	198	29	30	56
4	140	324	318	239	217	252	188	75	181	21	36	46
5	140	281	296	239	212	243	165	82	169	28	33	35
6	142	271	276	240	216	243	146	77	146	21	25	30
7	142	267	262	245	237	242	152	80	129	19	19	45
8	148	276	260	252	498	239	159	88	88	18	14	103
9	168	274	257	249	360	237	132	88	67	23	11	189
10	173	334	274	252	288	230	125	90	67	20	14	208
11	200	413	319	240	282	235	117	91	68	17	23	164
12	221	501	305	239	391	231	118	92	63	16	21	146
13	200	401	287	231	355	226	113	87	52	10	24	146
14	187	336	269	231	329	215	103	72	46	6.1	33	166
15	184	289	281	226	329	215	104	67	50	4.8	25	164
16	195	267	302	224	348	220	100	72	35	3.8	27	162
17	231	262	291	221	335	225	103	66	38	1.5	24	160
18	225	300	290	223	316	223	96	58	31	4.8	22	162
19	229	276	275	227	311	210	131	45	18	15	35	157
20	237	393	253	227	311	204	94	52	15	18	44	156
21	234	415	256	227	292	201	105	41	17	16	36	131
22	224	327	267	221	281	199	106	33	20	22	25	135
23	219	304	264	219	274	189	98	58	25	22	22	129
24	214	547	261	219	275	199	101	46	25	15	20	123
25	208	466	261	223	274	207	93	45	24	14	16	128
26	205	354	257	222	268	209	89	46	30	9.6	16	125
27	206	365	247	220	263	231	91	64	29	10	17	119
28	211	669	248	221	257	241	82	71	30	25	17	83
29	216	558	243	222	---	238	82	101	27	24	15	68
30	211	444	243	221	---	218	76	108	25	19	16	58
31	206	---	253	218	---	198	---	125	---	65	13	---
TOTAL	5852	10822	8658	7169	8184	6978	3656	2248	2088	566.6	773	3457
MEAN	189	361	279	231	292	225	122	72.5	69.6	18.3	24.9	115
MAX	237	669	363	252	498	257	199	125	198	65	60	208
MIN	108	200	243	218	212	189	76	33	15	1.5	11	18
AC-FT	11610	21470	17170	14220	16230	13840	7250	4460	4140	1120	1530	6860

CAL YR 1984	TOTAL	81473	MEAN	223	MAX	995	MIN	18	AC-FT 161600
WTR YR 1985	TOTAL	60451.6	MEAN	166	MAX	669	MIN	1.5	AC-FT 119900

11519500 SCOTT RIVER NEAR FORT JONES, CA

LOCATION.--Lat 41°38'27", long 123°00'50", in NE 1/4 NE 1/4 sec.29, T.44 N., R.10 W., Siskiyou County, Hydrologic Unit 18010208, on right bank 1.8 mi upstream from Snow Creek, and 9.0 mi west of Fort Jones.

DRAINAGE AREA.--653 mi^2.

PERIOD OF RECORD.--December 1941 to current year. Monthly discharge only October to December 1941, published in WSP 1315-B.

REVISED RECORDS.--WSP 1445: 1942-43(M), 1946(M), 1948. WSP 1715: 1951-52(M). WSP 1929: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 2,623.80 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Oct. 1, 1966, water-stage recorder 400 ft downstream at datum 2.00 ft higher.

REMARKS.--No estimated daily discharges. Records good. Diversions for irrigation of about 30,000 acres above station.

AVERAGE DISCHARGE.--44 years, 674 ft^3/s, 488,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,600 ft^3/s, Dec. 22, 1964, gage height, 25.34 ft, from floodmarks, from rating curve extended above 15,000 ft^3/s on basis of slope-area measurement at 21.40 ft, site and datum then in use; minimum daily, 5.0 ft^3/s, on several days during August 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 12	1630	*3,420	*10.25				

Minimum daily, 25 ft^3/s, several days in August.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	165	860	355	300	540	587	801	514	126	42	26
2	61	615	790	344	300	532	727	941	520	119	43	29
3	62	1150	769	338	299	511	930	964	507	108	43	32
4	62	602	722	334	288	500	1030	824	485	102	43	34
5	61	420	682	334	280	491	1090	713	488	99	42	34
6	60	434	646	336	280	481	1270	675	670	93	40	34
7	60	456	622	340	297	469	1640	654	778	88	36	34
8	60	392	604	346	531	453	1720	634	732	85	34	34
9	60	366	585	351	485	431	1700	589	622	83	34	34
10	63	526	603	355	399	418	1730	542	545	76	34	35
11	67	985	658	350	415	406	1750	512	482	75	33	36
12	71	2820	658	335	899	398	1500	477	440	72	33	36
13	74	2710	626	320	932	392	1410	474	415	69	33	37
14	85	1460	593	313	808	388	1620	486	388	67	32	40
15	90	1000	581	309	755	387	1900	503	357	65	27	42
16	95	803	555	330	748	387	1880	521	336	61	26	44
17	100	700	528	347	730	392	1570	558	322	60	25	44
18	108	834	512	350	690	396	1340	606	300	58	25	44
19	114	744	482	340	661	398	1150	633	279	55	26	44
20	117	740	451	330	633	408	925	651	259	52	28	44
21	131	741	440	325	599	414	882	608	241	50	27	44
22	130	641	425	325	581	414	777	618	221	49	26	44
23	128	612	410	325	576	412	703	696	203	46	26	44
24	126	900	404	325	576	423	661	780	192	44	26	43
25	124	826	400	325	583	436	621	770	178	41	27	43
26	124	698	393	325	587	428	574	735	166	39	27	43
27	130	733	384	319	575	433	546	776	155	36	27	43
28	137	1260	379	317	551	433	563	739	144	38	25	43
29	163	1170	366	315	---	441	630	673	136	41	25	43
30	180	935	360	303	---	474	702	596	130	42	25	42
31	175	---	360	300	---	517	---	552	---	41	25	---
TOTAL	3079	26438	16848	10261	15358	13603	34128	20301	11205	2080	965	1169
MEAN	99.3	881	543	331	548	439	1138	655	374	67.1	31.1	39.0
MAX	180	2820	860	355	932	540	1900	964	778	126	43	44
MIN	60	165	360	300	280	387	546	474	130	36	25	26
AC-FT	6110	52440	33420	20350	30460	26980	67690	40270	22230	4130	1910	2320

CAL YR 1984 TOTAL 247404 MEAN 676 MAX 2820 MIN 39 AC-FT 490700
WTR YR 1985 TOTAL 155435 MEAN 426 MAX 2820 MIN 25 AC-FT 308300

11520500 KLAMATH RIVER NEAR SEIAD VALLEY, CA

LOCATION.--Lat 41°51'14", long 123°13'52", in SW 1/4 SW 1/4 sec.3, T.46 N., R.12 W., Siskiyou County, Hydrologic Unit 18010206, Klamath National Forest, on left bank 0.4 mi upstream from Bittenbender Creek, 1.4 mi downstream from Grider Creek, and 2.2 mi west of Seiad Valley.

DRAINAGE AREA.--6,940 mi^2, 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 and crest-stage gage. Elevation of gage is 1,320 ft above National Geodetic Vertical Datum of 1929, from river-profile map. November 1912 to June 1925, nonrecording gage at site 3.5 mi upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Low flow regulated considerably by reservoirs and powerplants above station. Large diversions above station for irrigation.

AVERAGE DISCHARGE.--47 years (water years 1913-25, 1952-85), 4,158 ft^3/s, 3,012,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 165,000 ft^3/s, Dec. 23, 1964, gage height, 33.75 ft, from floodmarks, from rating curve extended above 49,000 ft^3/s on basis of slope-area measurements at gage heights 20.1 ft and 29.2 ft; minimum daily, 320 ft^3/s, Nov. 25, 1917.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 12	1145	*13,800	*10.20	Apr. 11	1200	12,000	9.53

Minimum daily, 937 ft^3/s, July 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2070	5070	7780	4110	2650	3550	6660	5240	2550	1210	1100	1270
2	2080	6490	7240	4080	2650	3530	7190	4870	2550	1170	1280	1470
3	2090	7910	7280	3830	2650	3450	7530	4660	2520	1160	1260	1490
4	2120	6540	7090	3750	2610	3430	7510	4280	2480	1140	1250	1490
5	2480	5800	6940	3740	2580	3380	7510	4070	2940	1130	1240	1490
6	2580	6400	6760	3740	2580	3330	7810	3990	3570	1130	1240	1490
7	2650	6600	6650	3750	2690	3300	8310	3690	3790	1100	1210	1500
8	2700	6360	6470	3820	3520	3410	8410	3540	3680	1090	1210	1560
9	3060	6170	6540	3770	3480	3660	9110	3470	3840	1080	1210	1630
10	3530	6700	6700	3570	3050	3680	9900	3140	3740	1060	1210	1930
11	3670	7950	7060	3370	3130	3670	11400	2750	3040	1060	1210	2120
12	3520	12500	7010	3280	5170	3670	11300	2680	2670	1050	1210	2030
13	3600	11000	6780	3250	4970	3660	10300	2660	2270	1060	1220	2010
14	3540	9240	6320	3270	4520	3660	10200	2560	2040	1050	1210	2070
15	3430	8040	5970	3280	4350	3680	10500	2520	1970	1040	1210	2050
16	3530	7540	5810	3290	4470	3710	9240	2580	1910	1020	1190	1950
17	3650	7240	5600	3350	4300	3770	7520	2590	1860	1010	1180	2030
18	3590	7600	4970	2930	4090	3780	6720	2670	1790	1010	1180	2090
19	4040	7280	4760	2840	3960	3810	6350	2700	1620	984	1180	2090
20	4970	7440	4650	2820	3870	3760	6020	2720	1560	981	1190	2090
21	4940	8120	4490	2820	3740	4070	5840	2680	1480	977	1200	2090
22	4990	7140	4380	2820	3690	4210	5370	2680	1420	975	1200	2070
23	5000	7010	4320	2800	3730	4570	5090	2770	1380	975	1200	2070
24	5030	7840	4280	2790	3750	4890	5320	2970	1350	971	1190	2070
25	4950	7900	4250	2760	3770	4870	5210	2950	1320	958	1190	2070
26	5060	7280	4250	2740	3720	4790	5430	2860	1310	949	1190	2070
27	4930	7440	4220	2710	3650	4830	5510	2910	1280	942	1180	2060
28	5150	9690	4190	2700	3570	4900	5260	2860	1250	937	1180	2040
29	5250	9190	4160	2700	---	5510	5550	2740	1230	978	1170	2020
30	5120	8140	4170	2670	---	5510	5470	2610	1210	990	1170	1980
31	4930	---	4150	2650	---	6160	---	2550	---	991	1170	---
TOTAL	118250	229620	175240	100000	100910	126200	223540	97960	65620	32178	37230	56390
MEAN	3815	7654	5653	3226	3604	4071	7451	3160	2187	1038	1201	1880
MAX	5250	12500	7780	4110	5170	6160	11400	5240	3840	1210	1280	2120
MIN	2070	5070	4150	2650	2580	3300	5090	2520	1210	937	1100	1270
AC-FT	234500	455500	347600	198400	200200	250300	443400	194300	130200	63830	73850	111800

CAL YR 1984 TOTAL 1930090 MEAN 5273 MAX 14000 MIN 1080 AC-FT 3828000
WTR YR 1985 TOTAL 1363138 MEAN 3735 MAX 12500 MIN 937 AC-FT 2704000

11521500 INDIAN CREEK NEAR HAPPY CAMP, CA

LOCATION.--Lat 41°50'07", long 123°22'55", in SW 1/4 SW 1/4 sec.26, T.17 N., R.7 E., Siskiyou County, Hydrologic Unit 18010209, on left bank 0.2 mi upstream from Slater Creek, 3.0 mi north of Happy Camp, and 3.5 mi upstream from mouth.

DRAINAGE AREA.--120 mi^2.

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.

REVISED RECORDS.--WSP 1635: 1957-58.

GAGE.--Water-stage recorder. Datum of gage is 1,198.37 ft above National Geodetic Vertical Datum of 1929. Prior to December 1956, nonrecording gages at sites 1.0 mi upstream at different datums. December 1956 to Sept. 20, 1969, water-stage recorder at site 0.8 mi upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Small diversions above station for irrigation.

AVERAGE DISCHARGE.--31 years (water years 1912-14, 1958-85), 446 ft^3/s, 320,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,000 ft^3/s, Dec. 22, 1964, gage height, 24.3 ft, from floodmarks, present site and datum, from rating curve extended above 6,000 ft^3/s on basis of slope-area measurement at gage height 29.0 ft, previous site and datum; minimum discharge observed, 20 ft^3/s, Aug. 19 to Sept. 6, 1914.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 21, 1955, reached a stage of 29.0 ft, at 1956-69 site and datum, from floodmarks, discharge, 23,000 ft^3/s on basis of slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 12	0530	*5,780	*10.72				

Minimum daily, 42 ft^3/s, Aug. 27-31, Sept. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	80	825	232	204	437	715	505	221	110	61	45
2	52	1560	707	227	200	415	930	504	220	107	59	50
3	51	994	630	223	196	387	1020	467	207	104	56	47
4	52	674	562	218	189	384	951	400	217	100	54	44
5	54	379	509	216	183	360	959	374	215	97	53	42
6	54	665	470	215	182	342	1040	361	411	95	52	44
7	52	522	441	222	247	327	1020	344	392	92	51	46
8	53	425	417	226	346	311	949	331	320	89	52	47
9	57	382	398	232	289	302	969	317	253	86	51	51
10	68	1180	463	231	255	298	962	301	226	84	50	52
11	98	2270	490	225	372	295	887	289	210	82	49	51
12	83	4410	542	219	880	297	799	283	202	80	48	51
13	105	2290	498	215	724	295	816	287	193	77	47	58
14	71	1260	453	211	632	293	874	300	181	74	46	65
15	63	884	434	208	634	297	839	294	176	72	46	60
16	67	699	396	209	664	315	744	310	166	69	45	53
17	67	646	375	239	588	335	660	310	161	68	45	51
18	67	924	356	283	529	331	614	323	157	66	46	48
19	80	774	333	287	497	349	555	325	153	64	47	47
20	111	719	315	287	470	356	497	308	143	61	47	48
21	89	625	300	285	443	353	477	297	135	60	46	48
22	78	544	286	276	470	332	462	305	132	59	45	49
23	71	570	276	266	519	399	468	315	135	58	45	49
24	67	683	268	256	546	544	447	298	130	57	45	48
25	64	593	263	246	538	426	414	279	128	57	44	48
26	80	522	256	237	493	416	396	270	125	55	43	48
27	81	839	250	230	453	396	414	257	122	54	42	48
28	114	1410	244	227	430	367	453	266	115	54	42	47
29	147	1050	235	218	---	346	469	242	113	62	42	47
30	103	943	254	211	---	363	474	223	112	58	42	47
31	87	---	240	206	---	482	---	214	---	59	42	---
TOTAL	2340	29516	12486	7283	12173	11150	21274	9899	5671	2310	1483	1479
MEAN	75.5	984	403	235	435	360	709	319	189	74.5	47.8	49.3
MAX	147	4410	825	287	880	544	1040	505	411	110	61	65
MIN	51	80	235	206	182	293	396	214	112	54	42	42
AC-FT	4640	58540	24770	14450	24150	22120	42200	19630	11250	4580	2940	2930

CAL YR 1984 TOTAL 168778 MEAN 461 MAX 4410 MIN 51 AC-FT 334800
WTR YR 1985 TOTAL 117064 MEAN 321 MAX 4410 MIN 42 AC-FT 232200

11522500 SALMON RIVER AT SOMES BAR, CA

LOCATION.--Lat 41°22'40", long 123°28'35", in NE 1/4 sec.3, T.11 N., R.6 E., Siskiyou County, Hydrologic Unit 18010210, Klamath National Forest, on left bank at Somes Bar, 1.0 mi upstream from mouth.

DRAINAGE AREA.--751 mi^2.

PERIOD OF RECORD.--September 1911 to September 1915, October 1927 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1285: 1912, 1914, 1915(M), 1946(M), 1948(M). WDR CA-72-1: 1971(P).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 482.97 ft above National Geodetic Vertical Datum of 1929. Prior to October 1927, nonrecording gage at different datum, October 1927 to Dec. 22, 1964, water-stage recorder at site 0.5 mi upstream at datum 6.54 ft higher.

REMARKS.--No estimated daily discharges. Records good. No storage or large diversion above station.

AVERAGE DISCHARGE.--62 years, 1,833 ft^3/s, 1,328,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 133,000 ft^3/s, Dec. 22, 1964, gage height, 46.6 ft present site and datum, from floodmarks, from rating curve extended above 33,000 ft^3/s; minimum, 70 ft^3/s, Aug. 25, Sept. 4, 5, 1931.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft^3/s and maximum(*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Nov. 12	0930	*14,600	*10.95				

Minimum daily, 154 ft^3/s, Aug. 28-31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	229	466	4050	954	852	1550	2300	2730	1300	504	274	157
2	231	4490	3380	938	853	1500	3320	2950	1350	489	282	183
3	224	4000	2950	931	837	1420	4110	2770	1210	476	267	192
4	220	1910	2580	931	806	1430	4060	2210	1310	467	246	184
5	220	1270	2300	931	790	1350	4140	2020	1410	447	232	173
6	220	1780	2060	940	785	1310	4730	1990	2590	434	223	167
7	219	1750	1920	981	1040	1260	4940	1900	2370	421	218	182
8	215	1580	1830	988	1950	1210	4580	1850	2090	412	214	192
9	241	1510	1760	979	1470	1170	4630	1750	1680	395	211	231
10	305	3380	1920	965	1250	1160	4610	1630	1490	382	208	253
11	653	6220	1990	938	1450	1140	4300	1530	1390	372	202	257
12	467	12200	2010	924	4490	1120	3740	1480	1410	364	194	255
13	753	7330	1920	905	3710	1100	3870	1530	1370	353	191	252
14	495	5000	1800	899	3040	1080	4470	1670	1230	344	184	378
15	380	3440	1780	895	2800	1080	4770	1640	1170	336	183	344
16	363	2580	1640	898	2780	1090	4100	1760	1090	323	177	285
17	380	2220	1530	990	2540	1130	3430	1870	1080	318	174	254
18	340	2860	1470	1100	2280	1130	3000	1930	1060	307	182	240
19	405	2560	1360	1120	2100	1150	2640	2020	1010	294	211	228
20	570	2710	1290	1110	1950	1170	2340	1990	974	286	206	218
21	490	2500	1240	1100	1820	1180	2180	1880	869	283	198	210
22	427	2170	1180	1070	1780	1150	2040	2000	774	302	190	202
23	390	2140	1150	1040	1830	1180	1990	2190	731	309	184	195
24	371	3580	1120	1020	1860	1420	1920	2320	674	282	177	188
25	364	2940	1110	991	1840	1240	1800	2150	626	265	170	187
26	423	2410	1090	967	1750	1310	1720	2000	591	253	165	181
27	486	3760	1060	942	1650	1380	1840	1860	566	245	158	181
28	571	7410	1040	931	1570	1360	2030	1780	551	249	154	177
29	975	5760	1010	908	---	1290	2180	1590	534	267	154	177
30	673	4580	1020	881	---	1320	2360	1390	523	253	154	173
31	536	---	978	867	---	1620	---	1330	---	252	154	---
TOTAL	12836	106506	53538	30034	51873	39000	98140	59710	35023	10684	6137	6496
MEAN	414	3550	1727	969	1853	1258	3271	1926	1167	345	198	217
MAX	975	12200	4050	1120	4490	1620	4940	2950	2590	504	282	378
MIN	215	466	978	867	785	1080	1720	1330	523	245	154	157
AC-FT	25460	211300	106200	59570	102900	77360	194700	118400	69470	21190	12170	12880

CAL YR 1984	TOTAL	780499	MEAN	2133	MAX	12200	MIN	211	AC-FT	1548000
WTR YR 1985	TOTAL	509977	MEAN	1397	MAX	12200	MIN	154	AC-FT	1012000

11523000 KLAMATH RIVER AT ORLEANS, CA

LOCATION.--Lat 41°18'13", long 123°32'00", in SW 1/4 NE 1/4 sec.31, T.11 N., R.6 E., Humboldt County, Hydrologic Unit 18010209, Six Rivers National Forest, on right bank at Orleans, 25 ft upstream from highway bridge, and 0.2 mi downstream from Cheenitch Creek.

DRAINAGE AREA.--8,475 mi^2, 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."

REVISED RECORDS.--WSP 1565: 1935(M), 1949.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 355.98 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1965, at site 6.7 mi upstream at datum 90.68 ft higher.

REMARKS.--Estimated daily discharges: July 12 to Aug. 19. Records good except for estimated daily discharge, which are fair. Flow considerably regulated by reservoirs and powerplants above station. Large diversions above station for irrigation.

AVERAGE DISCHARGE.--58 years, 8,350 ft^3/s, 6,050,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 307,000 ft^3/s, Dec. 22, 1964, gage height, 76.5 ft, from floodmarks, site and datum then in use, from rating curve extended above 80,000 ft^3/s by slope-conveyance study; minimum daily, 320 ft^3/s, Aug. 25, Sept. 1, 1951.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 40,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 12	1130	*64,400	*18.57				

Minimum daily, 1,550 ft^3/s, Aug. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2400	5780	20700	6810	4680	7340	13200	10500	4870	2410	1650	1580
2	2440	17000	18400	6680	4690	7190	16500	10600	4990	2380	1750	1710
3	2420	20700	17000	6520	4620	6890	18700	9970	4720	2320	1860	1790
4	2400	14700	15700	6240	4540	6880	18300	8750	4770	2290	1800	1790
5	2520	10300	14700	6180	4440	6660	18200	8010	4980	2250	1780	1760
6	2870	11600	13700	6190	4410	6450	19100	7770	7750	2210	1720	1750
7	2910	12500	13100	6290	5060	6250	19700	7420	8290	2180	1690	1760
8	3000	11300	12500	6320	8620	6110	18900	6940	7900	2150	1680	1800
9	3160	11200	12100	6430	7700	6270	19200	6690	6750	2110	1620	1870
10	3970	18300	12600	6130	6520	6350	20000	6370	6350	2070	1610	1980
11	5170	25200	13400	5910	6660	6270	20300	5700	5930	2040	1600	2180
12	4700	54200	13600	5690	17800	6250	20200	5430	5070	1990	1600	2220
13	5190	36200	13200	5610	16200	6200	19300	5420	4880	1920	1620	2170
14	4680	25800	12200	5550	13400	6150	19700	5570	4290	1900	1620	2350
15	4240	20100	11700	5530	12200	6160	20200	5400	4090	1890	1600	2330
16	4170	16800	11000	5530	12200	6290	18700	5580	3920	1820	1550	2190
17	4470	14900	10500	5810	11300	6420	15700	5750	3800	1800	1580	2100
18	4350	17800	9830	6010	10200	6460	13500	5860	3730	1780	1670	2200
19	4800	16800	9090	5750	9530	6530	12300	6030	3550	1770	1700	2210
20	5710	16500	8670	5660	9040	6560	11300	5970	3370	1720	1630	2190
21	6190	16700	8380	5640	8480	6620	10600	5820	3160	1710	1620	2160
22	5860	14800	7980	5560	8270	6860	10300	5890	3000	1780	1620	2150
23	5870	13800	7750	5450	8490	7200	9430	6150	2910	1750	1610	2120
24	5690	17500	7580	5350	8650	9570	9700	6480	2800	1700	1610	2110
25	5780	16700	7440	5240	8600	8530	9320	6300	2710	1680	1600	2110
26	5810	14800	7350	5140	8240	8570	9120	6020	2640	1650	1600	2110
27	5990	18500	7230	5030	7790	8910	9570	5850	2580	1610	1590	2100
28	6340	31000	7120	4990	7430	8750	9750	5780	2530	1620	1580	2090
29	7530	26900	6970	4900	---	8950	9980	5550	2470	1680	1580	2060
30	6620	22700	7130	4810	---	9120	10300	5080	2440	1700	1580	2030
31	6220	---	6960	4730	---	10300	---	4870	---	1680	1580	---
TOTAL	143470	571080	345580	177680	239760	223060	451070	203520	131240	59560	50900	60970
MEAN	4628	19040	11150	5732	8563	7195	15040	6565	4375	1921	1642	2032
MAX	7530	54200	20700	6810	17800	10300	20300	10600	8290	2410	1860	2350
MIN	2400	5780	6960	4730	4410	6110	9120	4870	2440	1610	1550	1580
AC-FT	284600	1133000	685500	352400	475600	442400	894700	403700	260300	118100	101000	120900

CAL YR 1984	TOTAL	3810840	MEAN	10410	MAX	54200	MIN	1820	AC-FT	7559000
WTR YR 1985	TOTAL	2657890	MEAN	7282	MAX	54200	MIN	1550	AC-FT	5272000

11523200 TRINITY RIVER ABOVE COFFEE CREEK, NEAR TRINITY CENTER, CA

LOCATION.--Lat 41°06'41", long 122°42'16", in SW 1/4 NW 1/4 sec.32, T.38 N., R.7 W., Trinity County, Hydrologic Unit 18010211, Shasta National Forest, on left bank 24 ft upstream from State Highway No. 3 bridge, 1.8 mi upstream from Coffee Creek, and 8.6 mi north of Trinity Center.

DRAINAGE AREA.--149 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is 2,536.93 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1978, water-stage recorder at site 0.2 mi downstream at datum 3.57 ft lower.

REMARKS.--No estimated daily discharges. Records good. No regulation or diversion above station.

AVERAGE DISCHARGE.--28 years, 425 ft^3/s, 307,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,500 ft^3/s, Jan. 16, 1974, gage height, 12.96 ft, site and datum then in use, on basis of slope-area measurement of peak flow; maximum gage height, 13.78 ft, Nov. 16, 1981; minimum daily, 16 ft^3/s, Sept. 11-14, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1955, reached a stage of 10.5 ft, previous site and datum, from floodmarks, discharge, 11,400 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 12	1345	*2,630	*8.22				

Minimum daily, 32 ft^3/s, Sept. 30.

REVISIONS.--The maximum discharge for water year 1982 is 14,500 ft^3/s, Nov. 16, 1981, gage height, 13.78 ft; the previously published figure was not the maximum. The gage height for maximum discharge has been corrected to 12.96 ft site and datum then in use. This supersedes the figure published in the reports for 1979-84.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	69	187	138	165	314	477	742	229	71	71	37
2	44	211	181	137	163	303	665	748	256	68	58	40
3	44	199	183	137	157	275	821	696	220	66	52	42
4	43	124	179	137	147	263	891	571	210	64	48	41
5	43	105	178	137	149	248	1010	520	210	62	46	39
6	45	151	175	143	148	235	1290	506	240	61	44	38
7	45	143	173	173	156	227	1470	503	229	60	42	45
8	46	141	174	178	160	211	1420	474	212	59	40	56
9	53	139	197	178	151	205	1370	432	195	58	40	59
10	63	183	311	176	139	205	1350	402	182	56	41	60
11	99	656	374	170	141	207	1180	368	173	54	41	54
12	68	2340	326	165	145	213	1050	348	166	53	40	50
13	66	1460	279	163	155	213	1160	354	157	52	39	48
14	60	634	249	163	158	217	1420	380	150	51	40	51
15	57	432	237	164	174	234	1560	365	144	49	39	50
16	62	383	217	172	196	260	1320	375	136	49	38	47
17	67	337	206	213	199	284	980	380	129	48	38	44
18	65	341	196	266	202	305	819	393	119	46	40	41
19	65	304	179	270	209	347	686	400	112	46	48	41
20	71	316	171	270	216	377	576	389	107	45	49	41
21	74	298	173	276	216	386	509	364	101	45	46	40
22	70	262	164	269	270	349	449	374	96	47	43	39
23	67	247	162	253	329	330	441	395	94	46	40	38
24	65	251	159	240	366	365	432	394	88	43	38	37
25	65	223	159	226	377	323	409	360	85	41	37	36
26	64	200	157	214	352	310	398	324	83	41	37	36
27	64	207	153	201	316	296	476	294	81	41	37	35
28	71	221	150	195	304	270	554	289	76	41	37	35
29	79	202	145	186	---	252	619	266	73	41	37	33
30	79	195	143	176	---	259	674	229	73	47	37	32
31	73	---	141	170	---	337	---	231	---	74	37	---
TOTAL	1920	10974	6078	5956	5860	8620	26476	12866	4426	1625	1320	1285
MEAN	61.9	366	196	192	209	278	883	415	148	52.4	42.6	42.8
MAX	99	2340	374	276	377	386	1560	748	256	74	71	60
MIN	43	69	141	137	139	205	398	229	73	41	37	32
AC-FT	3810	21770	12060	11810	11620	17100	52520	25520	8780	3220	2620	2550

CAL YR 1984	TOTAL	135739	MEAN	371	MAX	2340	MIN	41	AC-FT	269200
WTR YR 1985	TOTAL	87406	MEAN	239	MAX	2340	MIN	32	AC-FT	173400

11525400 CLAIR ENGLE LAKE NEAR LEWISTON, CA

LOCATION.--Lat 40°48'05", long 122°45'44", in NW 1/4 SW 1/4 sec.15, T.34 N., R.8 W., Trinity County, Hydrologic Unit 18010211, Trinity National Forest, Whiskeytown-Shasta-Trinity National Recreation Area, on side of intake structure of Trinity Dam on Trinity River, 9 mi north of Lewiston.

DRAINAGE AREA.--692 mi^2.

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 National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation). Prior to Jan. 4, 1962, nonrecording gage at same site and datum.

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 between elevations 1,995.5 ft, elevation of invert of river outlets and 2,370.0 ft, crest of Glory Hole spillway. Dead storage, 10,000 acre-ft. Operating pool is from elevation 2,145.0 ft, capacity, 312,621 acre-ft, to 2,370.0 ft, capacity, 2,447,700 acre-ft. Figures given herein represent total contents at 2400 hours. Lake is used for power generation, flood control and recreation.

COOPERATION.--Records were provided by Bureau of Reclamation.

EXTREMES (at 2400) FOR PERIOD OF RECORD.--Maximum contents, 2,588,000 acre-ft, Jan. 19, 1974, elevation, 2,378.32 ft; minimum since first filling, 222,400 acre-ft, Nov. 9, 1977, elevation, 2,120.22 ft.

EXTREMES (at 2400) FOR CURRENT YEAR.--Maximum contents, 2,139,000 acre-ft, June 19, elevation, 2,350.34 ft; minimum, 1,761,700 acre-ft, Sept. 30, elevation, 2,323.80 ft.

Capacity table (elevation, in feet NGVD, and contents, in acre-feet)

2,100	162,200	2,250	955,100
2,140	292,900	2,310	1,583,600
2,190	529,600	2,380	2,617,000

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1885500	1857000	1923400	1888400	1873300	1870200	1895300	2053200	2121000	2123400	2024500	1911000
2	1884300	1862200	1923500	1888300	1873000	1869400	1899600	2056900	2122000	2120400	2021800	1907300
3	1882900	1863600	1923000	1887600	1872700	1869300	1904900	2060100	2122900	2116600	2019200	1904000
4	1881200	1863700	1922100	1887300	1872300	1869000	1910700	2063000	2124300	2113000	2016600	1901300
5	1879700	1864800	1921400	1887300	1872000	1868700	1917500	2065600	2125500	2109600	2014000	1895800
6	1879000	1866600	1921400	1887900	1872200	1868700	1925600	2068000	2127600	2105900	2010900	1890100
7	1878100	1867600	1920300	1888300	1874700	1868700	1935000	2070200	2129400	2102300	2006700	1884700
8	1876300	1868200	1919300	1888700	1874100	1868200	1943500	2072300	2130900	2098300	2002900	1878700
9	1874500	1869500	1918400	1889600	1873100	1867600	1951600	2073900	2132100	2094800	1999300	1874100
10	1873700	1874300	1920400	1889800	1871800	1866900	1959200	2075100	2133400	2091300	1996000	1869100
11	1872600	1885100	1921600	1890500	1871200	1866200	1966500	2076000	2134500	2087700	1992200	1863700
12	1871600	1905500	1921700	1891200	1870700	1865800	1973000	2077300	2135700	2083500	1988700	1858500
13	1871100	1919200	1921300	1892300	1870100	1865300	1980600	2078500	2135900	2081000	1985100	1853500
14	1870100	1922300	1920400	1892600	1869400	1864600	1990200	2081200	2136200	2078300	1981800	1848000
15	1869700	1924100	1919700	1893000	1869000	1865500	1999300	2083200	2136600	2075700	1978500	1842800
16	1869000	1925100	1918700	1893900	1868900	1866500	2007100	2085600	2137200	2072700	1974600	1837600
17	1867600	1926200	1917500	1895700	1869100	1868400	2012900	2088300	2138000	2069800	1970400	1832300
18	1866600	1926600	1916200	1895700	1868700	1869700	2017300	2090500	2138600	2066600	1966700	1827200
19	1866500	1926400	1914200	1894300	1868400	1871100	2020700	2095000	2139000	2063500	1962800	1822100
20	1866000	1926900	1912200	1893300	1868200	1872600	2023700	2097200	2138400	2060700	1959200	1817200
21	1865100	1926400	1910600	1892100	1868000	1874300	2026400	2099900	2136900	2057600	1955800	1812300
22	1864800	1925400	1908300	1890500	1868000	1875500	2028600	2102900	2136300	2054700	1952200	1807300
23	1864600	1925500	1906200	1889000	1868600	1877200	2030500	2105700	2135300	2052000	1948500	1801300
24	1864200	1924900	1904400	1887500	1868900	1879700	2032500	2108400	2133600	2049400	1944100	1793700
25	1863000	1924100	1902100	1885900	1869700	1880900	2034000	2111000	2132100	2046900	1939800	1786100
26	1861400	1923100	1900000	1884000	1869800	1884300	2035400	2113200	2131300	2044000	1935100	1779800
27	1860600	1924700	1897800	1881800	1870100	1885800	2037900	2114800	2130400	2041000	1931400	1772100
28	1860800	1924900	1895600	1880100	1870100	1886900	2040600	2116600	2129500	2038100	1927600	1770200
29	1859900	1924800	1893200	1877900	---	1888200	2044500	2117800	2128000	2034400	1923500	1769200
30	1858800	1924200	1891200	1875600	---	1889600	2048700	2118700	2127100	2030900	1919600	1761700
31	1857700	---	1888900	1873400	---	1891800	---	2119500	---	2027500	1915600	---
MAX	1885500	1926900	1923500	1895700	1874700	1891800	2048700	2119500	2139000	2123400	2024500	1911000
MIN	1857700	1857000	1888900	1873400	1868000	1864600	1895300	2053200	2121000	2027500	1915600	1761700
a	2330.88	2335.65	2333.13	2332.02	2331.78	2333.34	2344.27	2349.04	2349.55	2342.83	2335.04	2323.80
b	-31200	+66500	-35300	-15500	-3300	+21700	+156900	+ 70800	+7600	-99600	-111900	-153900
c	2060	500	430	450	1150	1970	4400	6100	7630	8350	7250	3880

CAL YR 1984 b -226200
WTR YR 1985 b -127200

a Elevation, in feet NGVD, at end month.
b Change in contents, in acre-feet.
c Evaporation, in acre-feet.

11525430 JUDGE FRANCIS CARR POWERPLANT NEAR FRENCH GULCH, CA

LOCATION.--Lat 40°38'49", long 122°37'34", Shasta County, Hydrologic Unit 18010212, at powerplant 1.6 mi downstream from Mill Creek, and 3.8 mi south of French Gulch.

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

GAGE.--Recorded powerplant output.

REMARKS.--Water is diverted from Trinity River at NW 1/4 SE 1/4 sec.8, T.33 N., R.8 W., through a tunnel to powerplant and then into Whiskeytown Lake (station 11371700). See schematic diagram of Pit and McCloud River basins.

COOPERATION.--Records were provided by Bureau of Reclamation.

AVERAGE DISCHARGE.--22 years, 1,555 ft^3/s, 1,127,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,910 ft^3/s, Feb. 11, 1970; no flow many days in most years.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1456	480	1493	452	614	1009	245	707	249	1500	1097	1368
2	532	442	1493	458	452	995	245	718	250	1815	1094	1417
3	532	387	1493	492	498	995	255	709	247	1493	1094	1386
4	532	247	1493	452	388	1022	248	720	250	1641	1094	1379
5	532	224	1493	452	452	982	249	660	253	1641	1075	2336
6	246	215	933	0	252	982	258	688	249	1640	1091	2336
7	246	220	1475	472	498	1034	128	660	249	1531	1091	2380
8	521	351	1453	284	552	1009	720	658	250	1531	1496	2380
9	530	380	1453	275	504	1009	492	658	250	1556	1418	2424
10	521	606	1003	270	504	1009	480	553	144	1641	1405	2417
11	463	598	1396	266	435	1009	492	621	279	1438	1406	2417
12	464	652	1453	0	1006	1006	480	608	295	1504	1406	2373
13	246	923	1453	0	1017	982	487	730	380	1056	1406	2373
14	250	1541	1435	270	987	982	541	349	247	962	1406	2373
15	439	1575	1513	274	918	265	500	355	249	1057	1406	2373
16	444	1575	1493	162	989	262	494	267	252	1058	1381	2359
17	445	1533	1453	0	995	0	494	271	249	1055	1381	2359
18	459	1493	1551	509	1009	245	494	271	251	1094	1385	2448
19	0	1493	1473	1493	994	249	512	125	255	1060	1326	2329
20	255	1493	1493	1473	995	307	488	271	255	1111	1385	2402
21	247	1493	1493	1453	981	245	476	263	892	1000	1385	2402
22	0	1493	1473	1453	1019	443	491	271	255	1094	1385	2402
23	100	1493	1493	1473	1003	122	495	500	255	1094	1410	2595
24	259	1493	1473	1473	989	0	497	500	256	1116	1913	3430
25	423	1570	1473	1473	883	239	497	250	256	1039	1966	3555
26	458	1493	1473	1416	995	239	716	250	295	1039	1954	3037
27	261	1493	1493	1356	1048	242	716	247	252	1116	1410	3555
28	281	1473	1473	1453	1008	233	747	250	260	1057	1385	883
29	456	1493	1473	1473	---	236	514	250	246	1057	1398	209
30	450	1493	1473	1473	---	245	718	273	250	1097	1398	3360
31	462	---	1513	1473	---	0	---	250	---	1004	1398	---
TOTAL	12510	31415	44798	24023	21985	17597	14169	13903	8320	39097	42845	69057
MEAN	403	1047	1445	774	785	567	472	448	277	1261	1382	2301
MAX	1456	1575	1551	1493	1048	1034	747	730	892	1815	1966	3555
MIN	0	215	933	0	252	0	128	125	144	962	1075	209
AC-FT	24810	62310	88860	47650	43610	34900	28100	27580	16500	77550	84980	137000

CAL YR 1984 TOTAL 538434.00 MEAN 1471 MAX 3680 MIN 0 AC-FT 1068000
WTR YR 1985 TOTAL 339719.00 MEAN 931 MAX 3555 MIN 0 AC-FT 673800

11525500 TRINITY RIVER AT LEWISTON, CA

LOCATION.--Lat 40°43'10", long 122°48'09", in SW 1/4 NW 1/4 sec.17, T.33 N., R.8 W., Trinity County, Hydrologic Unit 18010211, on right bank 400 ft upstream from Deadwood Creek, 0.8 mi downstream from Lewiston Diversion Dam, and 0.8 mi northeast of Lewiston.

DRAINAGE AREA.--719 mi^2.

PERIOD OF RECORD.--August 1911 to current year.

REVISED RECORDS.--WSP 331: 1911-12. WSP 1181: 1949. WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,815.95 ft above National Geodetic Vertical Datum of 1929. See WSP 1929 for history of changes prior to July 7, 1964.

REMARKS.--No estimated daily discharges. Records good. Flow completely regulated by Trinity Dam beginning in November 1960 and Lewiston Lake, capacity, 14,660 acre-ft, when diversion to Judge Francis Carr powerplant (station 11525430) began in April 1963. Small diversions above head of Clair Engle Lake for irrigation, power, placer mining, and for domestic use between Trinity Dam and station at Lewiston.

AVERAGE DISCHARGE.--49 years (water years 1912-60) prior to storage and diversions, 1,641 ft^3/yr, 1,189,000 acre-ft/yr; 25 years (water years 1961-85), 1,964 ft^3/s, 1,423,000 acre-ft/yr, adjusted for changes in contents, evaporation, and diversion; unadjusted flow for same period was 423 ft^3/s, 306,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 71,600 ft^3/s, Dec. 22, 1955, gage height, 27.3 ft, from floodmarks, site and datum then in use; minimum, 23 ft^3/s, July 30, 1924. Maximum discharge since completion of Trinity Dam in 1960, 14,400 ft^3/s, Jan. 18, 1974, gage height, 10.41 ft; minimum daily, 100 ft^3/s, Apr. 14, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1861 reached a stage of 21.6 ft, from floodmarks, at site 1.1 mi downstream at different datum, discharge, not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 860 ft^3/s, Feb. 8, gage height, 4.66 ft; minimum daily, 177 ft^3/s, Nov. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	317	303	318	306	302	303	302	301	304	456	449	374
2	316	223	318	307	300	305	299	301	303	454	446	346
3	310	177	320	306	300	304	306	305	305	456	445	346
4	308	246	319	306	321	305	318	305	303	454	444	345
5	308	299	320	303	338	306	319	304	307	453	451	344
6	308	257	320	304	339	307	319	304	304	451	449	348
7	308	251	313	304	345	306	318	303	306	449	447	348
8	308	253	312	304	715	303	318	305	307	454	446	363
9	308	279	310	304	847	303	305	304	308	469	445	350
10	311	313	312	305	845	302	301	303	306	465	444	352
11	311	319	312	306	618	301	301	305	307	462	444	351
12	309	314	312	306	329	306	301	309	304	463	445	350
13	311	292	313	306	306	310	301	309	308	467	446	351
14	309	257	314	304	305	310	319	305	332	464	448	352
15	309	253	314	303	307	309	306	305	471	460	446	354
16	309	293	314	303	306	310	308	307	471	460	452	354
17	308	318	313	301	305	310	307	306	461	457	457	354
18	307	319	312	304	305	309	307	306	459	455	458	353
19	304	319	311	306	306	310	306	305	459	454	463	351
20	304	320	312	304	303	310	306	304	460	450	464	350
21	304	318	311	303	302	309	307	303	462	452	462	350
22	304	318	311	303	301	307	306	305	461	448	460	349
23	304	317	310	303	302	306	306	303	462	447	457	349
24	304	319	308	303	300	306	305	303	460	447	456	351
25	304	318	308	302	301	306	305	305	460	447	454	350
26	304	319	308	301	305	303	305	307	460	450	458	352
27	304	321	308	304	303	311	304	308	460	453	460	350
28	305	321	308	304	303	306	305	307	459	454	458	352
29	304	320	308	303	---	302	305	305	454	454	457	348
30	304	319	308	303	---	301	304	305	455	451	457	347
31	304	---	307	303	---	302	---	304	---	454	456	---
TOTAL	9528	8795	9684	9424	10459	9488	9219	9451	11678	14110	14024	10534
MEAN	307	293	312	304	374	306	307	305	389	455	452	351
MAX	317	321	320	307	847	311	319	309	471	469	464	374
MIN	304	177	307	301	300	301	299	301	303	447	444	344
AC-FT	18900	17440	19210	18690	20750	18820	18290	18750	23160	27990	27820	20890
MEAN a	237	2466	1190	834	1120	1259	3489	2004	922	232	133	132
AC-FT a	14600	146800	73200	51290	62210	77390	207600	123200	54890	14290	8150	7840

CAL YR 1984	TOTAL	208930	MEAN	571	MAX	6350	MIN	177	AC-FT	414400	MEAN a	1797	AC-FT a	1304000
WTR YR 1985	TOTAL	126394	MEAN	346	MAX	847	MIN	177	AC-FT	250700	MEAN a	1162	AC-FT a	841500

a Adjusted for change in contents and evaporation from Clair Engle Lake and diversion to Judge Francis Carr powerplant.

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA

LOCATION.--Lat 40°40'35", long 122°49'46", in SW 1/4, NE 1/4 sec. 36, T..33 N., R.9 W., Trinity County, Hydrologic Unit 18010211, on right bank 0.1 mi upstream from Phillips Gulch, and 2.5 mi southwest of Lewiston.

DRAINAGE AREA.--30.8 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1975 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,049.73 ft above National Geodetic Vertical Datum of 1929 (California State Highway Department bench mark).

REMARKS.--No estimated daily discharge. Records good. No regulation; small pumping diversions above station.

AVERAGE DISCHARGE.--9 years (water years 1977-85), 52.8 ft^3/s, 38,260 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,670 ft^3/s, Feb. 28, 1983; gage height, 10.11 ft, from rating curve extended above 700 ft^3/s on basis of slope-area measurement of peak flow; minimum daily, 4.3 ft^3/s, many days in 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 13	0100	*495	*7.19				

Minimum daily, 7.5 ft^3/s, July 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	18	58	34	26	27	38	30	20	9.4	9.5	9.2
2	13	43	56	33	26	27	38	29	21	9.1	8.9	10
3	13	25	58	33	26	27	38	29	19	9.0	8.5	10
4	13	19	55	32	25	27	37	28	18	8.9	8.4	9.5
5	13	18	65	32	25	27	38	26	18	8.6	8.7	9.4
6	14	29	59	32	25	28	39	26	18	8.5	8.8	9.6
7	14	24	54	37	32	29	40	26	17	8.4	8.9	11
8	14	30	51	34	55	28	40	26	16	8.4	9.0	12
9	14	24	52	36	34	27	40	25	15	8.2	9.1	14
10	16	57	77	34	31	30	40	25	15	8.2	8.8	14
11	17	99	78	33	30	29	40	25	14	8.1	8.8	12
12	15	264	69	32	33	29	38	24	14	8.0	8.8	11
13	15	304	63	32	33	28	38	23	13	8.0	8.8	11
14	15	108	59	31	32	28	38	22	13	7.9	8.8	11
15	15	79	58	31	31	28	38	22	12	7.8	8.7	11
16	17	80	54	30	31	27	40	21	12	7.8	8.8	10
17	17	75	53	30	31	28	39	21	12	7.6	8.7	10
18	17	83	50	30	30	27	37	21	11	7.7	11	10
19	18	65	47	30	30	27	36	21	11	7.7	11	9.9
20	17	67	45	29	30	27	35	20	12	7.7	9.8	9.8
21	16	59	44	29	29	27	36	20	11	8.1	9.5	9.7
22	16	52	43	29	29	27	35	19	10	8.8	9.2	9.6
23	16	53	41	29	29	27	34	19	11	8.0	9.0	9.6
24	16	61	40	29	29	30	33	19	10	7.6	8.8	9.6
25	16	51	39	28	29	28	32	19	10	7.5	8.7	9.4
26	16	46	39	28	29	29	32	18	10	7.7	8.7	9.3
27	17	61	38	28	28	33	32	19	9.9	8.1	8.7	9.6
28	20	90	37	28	28	31	31	21	9.6	8.0	8.8	9.8
29	19	66	36	27	---	31	30	21	9.6	7.7	8.8	9.4
30	18	62	35	27	---	32	30	19	9.7	7.9	8.8	9.5
31	18	---	35	26	---	35	---	19	---	12	8.9	---
TOTAL	489	2112	1588	953	846	885	1092	703	401.8	256.4	279.7	309.9
MEAN	15.8	70.4	51.2	30.7	30.2	28.5	36.4	22.7	13.4	8.27	9.02	10.3
MAX	20	304	78	37	55	35	40	30	21	12	11	14
MIN	13	18	35	26	25	27	30	18	9.6	7.5	8.4	9.2
AC-FT	970	4190	3150	1890	1680	1760	2170	1390	797	509	555	615

CAL YR 1984 TOTAL 15962 MEAN 43.6 MAX 304 MIN 11 AC-FT 31660
WTR YR 1985 TOTAL 9915.8 MEAN 27.2 MAX 304 MIN 7.5 AC-FT 19670

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 to current year.
WATER TEMPERATURES: Water years 1976 to current year.
SEDIMENT RECORDS: Water years 1976 to current year.

PERIOD OF DAILY RECORD.--
SEDIMENT RECORDS.--November 1975 to current year.

REMARKS.--Sediment samples were collected on most days where a water temperature is published.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 9,550 mg/L, Mar. 2, 1983; minimum daily mean, 0 mg/L during most years.
SEDIMENT LOAD: Maximum daily, 65,200 tons, Mar. 2, 1983; minimum daily, 0 ton during most years.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 417 mg/L, Nov. 13; minimum daily mean, 1 mg/L on several days during the year.
SEDIMENT LOAD: Maximum daily, 431 tons, Nov. 13; minimum daily, 0.03 ton on several days during June and September.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.5	---	---	---	---	---	---	14.0	---	---	---	---
2	---	7.5	---	3.0	3.0	---	6.5	---	14.0	---	---	---
3	12.0	7.0	---	---	---	4.5	---	---	---	18.0	---	14.0
4	11.0	---	5.5	---	4.0	---	---	11.0	---	---	20.0	14.0
5	---	6.5	---	4.5	---	---	11.5	---	12.0	---	---	12.0
6	12.5	7.0	5.5	---	2.0	---	---	---	15.0	---	---	---
7	---	---	4.0	5.0	---	3.0	---	---	14.0	20.0	18.0	14.5
8	---	7.0	---	---	4.0	---	13.0	11.0	---	---	---	---
9	10.5	---	6.0	5.0	---	4.0	---	---	---	18.0	---	13.0
10	---	6.0	6.5	4.5	---	---	---	---	---	---	18.5	12.5
11	9.0	7.0	---	---	4.5	5.5	12.5	11.0	---	20.0	---	---
12	---	7.5	6.0	---	---	---	---	---	---	---	16.5	13.0
13	10.5	7.5	---	3.0	---	---	---	13.5	18.0	19.5	---	---
14	---	7.0	4.0	---	5.5	7.0	14.0	---	---	---	---	14.0
15	---	7.0	---	3.5	---	---	---	---	---	---	20.0	---
16	---	8.0	---	---	---	---	---	---	19.5	19.5	---	11.0
17	6.5	---	4.0	---	---	---	---	10.5	---	---	19.5	---
18	---	8.0	---	4.0	5.5	8.5	7.5	---	---	20.5	---	13.0
19	7.0	8.0	2.0	---	---	---	---	---	---	---	18.5	---
20	---	---	---	---	5.0	---	---	13.0	21.5	20.5	---	---
21	8.5	6.0	3.0	4.0	---	---	8.0	---	---	---	---	14.0
22	---	---	---	---	6.5	---	---	---	---	21.0	18.0	---
23	8.0	5.5	---	3.5	---	---	11.0	---	24.0	---	---	14.0
24	---	---	3.0	---	---	8.0	---	16.5	---	21.5	---	---
25	9.0	---	---	4.0	7.0	8.0	---	---	16.0	---	19.0	---
26	---	5.5	4.0	---	---	---	---	15.0	---	22.5	---	11.5
27	---	---	---	---	6.5	---	13.0	14.5	15.0	---	---	---
28	8.0	5.0	---	4.5	---	4.5	---	---	---	22.0	---	14.0
29	---	---	3.5	---	---	5.5	11.0	11.5	14.0	---	17.0	---
30	---	6.0	---	---	---	---	---	---	15.5	19.5	---	14.0
31	7.0	---	4.5	3.5	---	9.0	---	11.5	---	13.0	16.5	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	3	.11	2	.10	6	.94	3	.28	5	.35	4	.29
2	3	.11	105	15	7	1.1	3	.27	6	.42	5	.36
3	4	.14	9	.61	9	1.4	3	.27	5	.35	5	.36
4	1	.04	5	.26	8	1.2	3	.26	3	.20	5	.36
5	2	.07	5	.24	8	1.4	2	.17	3	.20	5	.36
6	4	.15	12	.94	4	.64	2	.17	3	.20	5	.38
7	4	.15	4	.26	4	.58	7	.70	15	1.7	5	.39
8	3	.11	6	.49	3	.41	6	.55	40	6.5	4	.30
9	2	.08	2	.13	2	.28	6	.58	15	1.4	4	.29
10	4	.17	73	13	15	3.2	3	.28	8	.67	4	.32
11	5	.23	184	67	10	2.1	3	.27	6	.49	4	.31
12	5	.20	404	308	5	.93	4	.35	7	.62	3	.23
13	5	.20	417	431	5	.85	4	.35	6	.53	3	.23
14	5	.20	33	9.6	6	.96	4	.33	5	.43	3	.23
15	4	.16	14	3.0	5	.78	5	.42	5	.42	3	.23
16	5	.23	12	2.6	3	.44	6	.49	5	.42	3	.22
17	3	.14	11	2.2	1	.14	6	.49	5	.42	3	.23
18	2	.09	11	2.5	2	.27	7	.57	5	.41	3	.22
19	3	.15	9	1.6	3	.38	6	.49	5	.41	3	.22
20	3	.14	8	1.4	3	.36	5	.39	4	.32	3	.22
21	2	.09	4	.64	3	.36	4	.31	4	.31	3	.22
22	2	.09	3	.42	4	.46	4	.31	4	.31	3	.22
23	2	.09	4	.57	4	.44	4	.31	4	.31	3	.22
24	2	.09	7	1.2	4	.43	3	.23	4	.31	3	.24
25	2	.09	5	.69	3	.32	2	.15	4	.31	3	.23
26	3	.13	4	.50	1	.11	2	.15	4	.31	3	.23
27	4	.18	8	1.3	2	.21	3	.23	4	.30	3	.27
28	7	.38	20	4.9	2	.20	3	.23	4	.30	3	.25
29	6	.31	10	1.8	2	.19	3	.22	---	---	3	.25
30	4	.19	6	1.0	2	.19	4	.29	---	---	4	.35
31	3	.15	---	---	3	.28	4	.28	---	---	5	.47
TOTAL	---	4.66	---	872.95	---	21.55	---	10.39	---	18.92	---	8.70

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6	.62	2	.16	4	.22	4	.10	16	.41	3	.07
2	6	.62	3	.23	5	.28	3	.07	12	.29	3	.08
3	6	.62	4	.31	5	.26	3	.07	10	.23	2	.05
4	6	.60	4	.30	4	.19	4	.10	10	.23	1	.03
5	6	.62	4	.28	3	.15	5	.12	10	.23	4	.10
6	6	.63	4	.28	3	.15	6	.14	9	.21	5	.13
7	6	.65	4	.28	2	.09	6	.14	8	.19	7	.21
8	6	.65	4	.28	2	.09	6	.14	8	.19	9	.29
9	6	.65	4	.27	2	.08	5	.11	8	.20	11	.42
10	6	.65	4	.27	2	.08	5	.11	8	.19	8	.30
11	6	.65	4	.27	2	.08	4	.09	8	.19	5	.16
12	6	.62	5	.32	2	.08	4	.09	8	.19	4	.12
13	6	.62	5	.31	2	.07	3	.06	8	.19	4	.12
14	6	.62	5	.30	3	.11	3	.06	8	.19	5	.15
15	6	.62	5	.30	4	.13	4	.08	8	.19	4	.12
16	6	.65	4	.23	4	.13	4	.08	7	.17	2	.05
17	6	.63	4	.23	4	.13	4	.08	6	.14	1	.03
18	6	.60	4	.23	4	.12	4	.08	6	.18	1	.03
19	6	.58	4	.23	4	.12	4	.08	6	.18	2	.05
20	6	.57	4	.22	4	.13	3	.06	5	.13	2	.05
21	6	.58	4	.22	4	.12	4	.09	5	.13	3	.08
22	6	.57	4	.21	4	.11	5	.12	4	.10	3	.08
23	6	.55	3	.15	3	.09	4	.09	4	.10	3	.08
24	6	.53	3	.15	2	.05	3	.06	4	.10	3	.08
25	6	.52	3	.15	1	.03	4	.08	4	.09	3	.08
26	6	.52	3	.15	1	.03	4	.08	4	.09	3	.08
27	5	.43	4	.21	1	.03	4	.09	5	.12	2	.05
28	4	.33	3	.17	2	.05	4	.09	5	.12	1	.03
29	3	.24	2	.11	3	.08	3	.06	5	.12	1	.03
30	3	.24	3	.15	4	.10	2	.04	4	.10	1	.03
31	---	---	3	.15	---	---	29	1.7	4	.10	---	---
TOTAL	---	16.98	---	7.12	---	3.38	---	4.36	---	5.29	---	3.18

TOTAL LOAD FOR YEAR: 977.48 TONS.

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTION, CA--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1984	489.00	4.66	0	5
NOVEMBER ...	2112.00	872.95	667	1540
DECEMBER ...	1588.00	21.55	122	144
JANUARY 1985	953.00	10.39	0	10
FEBRUARY ...	846.00	18.92	4	23
MARCH	885.00	8.70	0	9
APRIL	1092.00	16.98	0	17
MAY	703.00	7.12	0	7
JUNE	401.80	3.38	0	3
JULY	256.40	4.36	0	4
AUGUST	279.70	5.29	0	5
SEPTEMBER ..	309.90	3.18	0	3
TOTAL	9915.80	977.48	793	1770

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	STREAM-FLOW, INSTAN-TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
DEC							
07...	1245	4.0	1	54	--	--	--
07...	1250	4.0	1	54	--	5	20
07...	1255	4.0	1	54	--	2	17
07...	1300	4.0	1	54	--	1	7
07...	1305	4.0	1	54	--	--	1
APR							
29...	1200	11.0	1	31	--	2	6
29...	1205	11.0	1	31	1	8	21
29...	1210	11.0	1	31	1	9	29
29...	1215	11.0	1	31	--	1	4
29...	1220	11.0	1	31	--	2	5

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
DEC							
07...	1	1	1	1	1	1	100
07...	34	53	88	100	--	--	--
07...	39	68	97	100	--	--	--
07...	18	32	56	72	85	100	--
07...	1	3	6	8	40	100	--
APR							
29...	12	17	22	27	29	54	100
29...	34	50	69	78	82	100	--
29...	43	60	84	100	--	--	--
29...	9	12	19	27	42	81	100
29...	8	12	19	25	42	100	--

PARTICLE-SIZE DISTRIBUTION OF SEDIMENT BEDLOAD, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	STREAM-FLOW, INSTAN-TANEOUS (CFS)	STREAM WIDTH (FT)	SEDI-MENT DIS-CHARGE, BEDLOAD (TONS/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM
DEC												
07...	1255	4.0	25	54	36.0	13	2	15	40	69	95	100

11525655 TRINITY RIVER BELOW LIMEKILN GULCH, NEAR DOUGLAS CITY, CA

LOCATION.--Lat 40°40'21", long 122°55'07", in SW 1/4 NW 1/4 sec. 32, T.33 N., R.9 W., Trinity County, Hydrologic Unit 18010211, on left bank 1.8 mi northeast of Douglas City, 11.3 mi downstream from Lewiston Diversion Dam, and 2.3 mi downstream from Limekiln Gulch.

DRAINAGE AREA.--812 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1981 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,650 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Clair Engle Lake (station 11525400) and transbasin diversion to Judge Francis Carr powerplant (station 11525430). Small diversion for irrigation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,070 ft^3/s, June 12, 1983, gage height, 10.45 ft; minimum daily, 286 ft^3/s, Nov. 4, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,230 ft^3/s, Nov. 13, gage height, 5.91 ft; minimum daily, 286 ft^3/s, Nov. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	325	335	502	370	364	370	429	397	336	454	477	389
2	326	465	496	370	360	370	443	395	343	454	455	345
3	321	315	550	370	360	370	452	389	335	448	454	344
4	321	286	509	370	366	365	463	378	341	451	454	340
5	321	342	500	367	380	365	464	365	349	454	454	340
6	321	349	495	365	383	366	477	365	363	454	453	340
7	321	329	469	376	399	370	481	365	363	448	448	342
8	321	346	452	380	758	367	467	363	357	448	448	348
9	321	342	442	379	923	365	457	359	354	459	448	359
10	332	549	479	379	907	365	450	355	356	460	448	350
11	343	716	514	375	755	365	440	355	358	459	448	350
12	335	962	487	375	434	365	427	355	358	454	448	350
13	335	963	463	372	402	365	432	355	358	454	447	350
14	333	530	448	370	402	365	459	364	359	454	442	350
15	330	436	441	370	402	365	481	355	487	450	442	350
16	341	441	428	370	402	365	447	358	500	457	446	350
17	339	471	421	373	407	365	422	355	489	459	448	350
18	335	515	412	375	406	365	410	362	488	454	465	350
19	335	467	404	375	400	365	400	362	489	454	466	350
20	335	474	398	375	394	367	394	364	489	452	460	345
21	332	453	394	375	386	370	391	354	486	450	453	342
22	330	433	390	375	385	369	386	359	482	460	448	345
23	330	435	386	374	380	365	380	365	477	458	442	345
24	329	518	389	370	380	376	380	360	476	454	442	345
25	325	468	386	370	380	372	378	356	470	454	442	345
26	325	444	386	367	380	379	372	352	469	455	442	345
27	327	492	384	365	379	378	374	349	472	466	441	345
28	339	654	380	365	375	385	383	350	470	466	436	345
29	350	561	380	365	---	386	389	347	461	466	436	345
30	345	524	379	364	---	391	388	339	456	465	436	341
31	337	---	376	363	---	398	---	335	---	464	436	---
TOTAL	10260	14615	13540	11509	12649	11494	12716	11182	12591	14135	13905	10435
MEAN	331	487	437	371	452	371	424	361	420	456	449	348
MAX	350	963	550	380	923	398	481	397	500	466	477	389
MIN	321	286	376	363	360	365	372	335	335	448	436	340
AC-FT	20350	28990	26860	22830	25090	22800	25220	22180	24970	28040	27580	20700

CAL YR 1984 TOTAL 247728 MEAN 677 MAX 6250 MIN 286 AC-FT 491400
WTR YR 1985 TOTAL 149031 MEAN 408 MAX 963 MIN 286 AC-FT 295600

11525655 TRINITY RIVER BELOW LIMEKILN GULCH, NEAR DOUGLAS CITY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1981 to current year.
WATER TEMPERATURES: Water years 1981 to current year.
SEDIMENT RECORDS: Water years 1981 to current year.

PERIOD OF DAILY RECORD.--
SEDIMENT RECORD: April 1981 to current year.

REMARKS.--Sediment samples were collected on most days where a water temperature is published.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 981 mg/L, Dec. 19, 1981; minimum daily mean, 0 mg/L, May 19-22, 1982, Sept. 11-13, 1984.
SEDIMENT LOAD: Maximum daily, 12,600 tons, Mar. 3, 1983; minimum daily, 0 ton, May 19-22, 1982, Sept. 11-13, 1984.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 62 mg/L, Nov. 13; minimum daily mean, 1 mg/L on many days during the year.
SEDIMENT LOAD: Maximum daily, 175 tons, Nov. 13; minimum daily, 0.87 ton, Oct. 3.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.0	---	---	---	---	---	---	13.0	---	---	15.5	---
2	---	9.0	---	6.0	6.0	---	10.5	---	16.0	---	---	---
3	12.0	8.0	---	---	---	7.0	8.5	---	---	16.0	---	12.0
4	10.0	---	7.0	---	6.0	---	---	12.0	---	---	15.5	12.0
5	---	8.5	---	6.5	---	---	11.5	---	13.0	---	---	14.5
6	11.0	---	6.0	---	---	---	---	---	13.5	---	---	---
7	---	8.5	---	7.0	5.5	6.5	---	11.0	14.0	17.5	11.5	12.5
8	---	8.5	---	---	5.5	---	12.0	---	---	12.5	---	---
9	10.5	---	7.5	---	---	8.5	---	---	---	---	---	12.0
10	---	7.5	7.5	6.5	---	---	---	---	---	16.5	15.0	12.0
11	10.0	8.0	---	---	6.0	7.5	13.0	12.0	---	---	---	---
12	---	8.0	7.0	---	---	---	---	---	---	---	13.5	12.0
13	10.0	8.0	---	6.0	---	---	---	13.5	18.5	15.0	---	---
14	---	8.0	---	---	7.5	9.0	13.5	---	---	---	---	12.5
15	---	---	---	6.5	---	---	---	---	---	---	15.0	---
16	---	8.5	6.0	---	---	---	---	---	19.5	15.0	---	10.0
17	9.5	---	---	---	---	---	---	11.5	---	---	15.0	---
18	---	8.5	---	6.5	8.0	10.5	10.0	---	---	16.0	---	11.0
19	9.0	8.5	4.5	---	---	---	---	---	---	---	15.0	---
20	---	---	---	---	7.5	---	---	13.5	19.0	16.0	---	---
21	9.0	7.0	5.0	6.0	---	---	10.0	---	---	---	---	12.5
22	---	---	---	---	8.5	---	---	---	---	16.0	14.0	---
23	10.0	7.5	---	6.0	---	10.0	11.5	---	17.0	---	---	12.5
24	---	---	4.5	---	---	---	---	16.0	---	16.0	---	---
25	10.5	---	---	5.5	8.0	9.5	---	---	15.0	16.5	15.0	---
26	---	7.0	6.0	---	---	---	---	16.0	---	---	---	10.5
27	---	---	---	---	8.0	---	12.5	15.5	14.5	---	---	---
28	---	6.5	---	6.0	---	7.0	---	---	---	16.5	---	11.0
29	10.0	---	5.5	---	---	7.5	---	13.0	14.5	---	15.0	---
30	---	---	---	---	---	---	11.0	---	15.0	16.0	---	11.5
31	9.5	---	6.5	6.5	---	10.0	---	13.5	---	---	14.5	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

11525655 TRINITY RIVER BELOW LIMEKILN GULCH, NEAR DOUGLAS CITY, CA--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	2	1.8	4	3.6	1	1.4	3	3.0	3	2.9	3	3.0
2	1	.88	25	35	1	1.3	3	3.0	3	2.9	3	3.0
3	1	.87	9	7.7	10	15	2	2.0	3	2.9	3	3.0
4	3	2.6	3	2.3	8	11	2	2.0	3	3.0	3	3.0
5	4	3.5	3	2.8	7	9.5	2	2.0	3	3.1	3	3.0
6	5	4.3	3	2.8	6	8.0	2	2.0	3	3.1	3	3.0
7	5	4.3	4	3.6	4	5.1	3	3.0	4	4.3	3	3.0
8	5	4.3	3	2.8	2	2.4	3	3.1	26	59	3	3.0
9	5	4.3	3	2.8	1	1.2	2	2.0	30	75	3	3.0
10	6	5.4	20	33	1	1.3	2	2.0	16	39	3	3.0
11	7	6.5	31	74	2	2.8	3	3.0	8	16	3	3.0
12	6	5.4	34	88	2	2.6	3	3.0	4	4.7	3	3.0
13	5	4.5	62	175	2	2.5	4	4.0	4	4.3	2	2.0
14	5	4.5	10	14	2	2.4	4	4.0	3	3.3	2	2.0
15	4	3.6	4	4.7	1	1.2	4	4.0	3	3.3	2	2.0
16	4	3.7	3	3.6	1	1.2	4	4.0	4	4.3	2	2.0
17	3	2.7	3	3.8	1	1.1	3	3.0	4	4.4	3	3.0
18	3	2.7	3	4.2	1	1.1	3	3.0	5	5.5	3	3.0
19	4	3.6	1	1.3	1	1.1	3	3.0	5	5.4	3	3.0
20	4	3.6	1	1.3	2	2.1	4	4.1	6	6.4	3	3.0
21	5	4.5	2	2.4	2	2.1	4	4.1	5	5.2	3	3.0
22	5	4.5	2	2.3	2	2.1	3	3.0	5	5.2	3	3.0
23	5	4.5	3	3.5	2	2.1	2	2.0	4	4.1	3	3.0
24	5	4.4	4	5.6	2	2.1	3	3.0	4	4.1	4	4.1
25	6	5.3	3	3.8	3	3.1	4	4.0	3	3.1	4	4.0
26	6	5.3	3	3.6	4	4.2	4	4.0	3	3.1	4	4.1
27	5	4.4	5	6.6	3	3.1	3	3.0	3	3.1	4	4.1
28	5	4.6	6	11	3	3.1	3	3.0	3	3.0	3	3.1
29	5	4.7	2	3.0	2	2.1	3	3.0	---	---	4	4.2
30	4	3.7	1	1.4	2	2.0	3	2.9	---	---	5	5.3
31	4	3.6	---	---	2	2.0	3	2.9	---	---	6	6.4
TOTAL	---	122.55	---	509.5	---	102.3	---	94.1	---	283.7	---	100.3

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7	8.1	3	3.2	4	3.6	4	4.9	7	9.0	4	4.2
2	8	9.6	3	3.2	3	2.8	4	4.9	6	7.4	4	3.7
3	8	9.8	4	4.2	4	3.6	5	6.0	4	4.9	4	3.7
4	6	7.5	4	4.1	4	3.7	5	6.1	4	4.9	3	2.8
5	6	7.5	5	4.9	4	3.8	5	6.1	4	4.9	2	1.8
6	6	7.7	6	5.9	5	4.9	5	6.1	3	3.7	2	1.8
7	5	6.5	6	5.9	5	4.9	5	6.0	3	3.6	2	1.8
8	5	6.3	6	5.9	5	4.8	7	8.5	3	3.6	2	1.9
9	5	6.2	6	5.8	4	3.8	6	7.4	3	3.6	1	.97
10	5	6.1	5	4.8	4	3.8	4	5.0	3	3.6	3	2.8
11	5	5.9	4	3.8	4	3.9	3	3.7	2	2.4	3	2.8
12	5	5.8	5	4.8	3	2.9	3	3.7	2	2.4	2	1.9
13	5	5.8	6	5.8	2	1.9	2	2.5	2	2.4	2	1.9
14	6	7.4	5	4.9	2	1.9	2	2.5	2	2.4	1	.95
15	6	7.8	5	4.8	4	5.3	2	2.4	2	2.4	1	.95
16	5	6.0	4	3.9	4	5.4	2	2.5	2	2.4	2	1.9
17	4	4.6	3	2.9	4	5.3	2	2.5	2	2.4	2	1.9
18	4	4.4	3	2.9	4	5.3	2	2.5	2	2.5	2	1.9
19	4	4.3	4	3.9	4	5.3	2	2.5	1	1.3	2	1.9
20	3	3.2	4	3.9	4	5.3	2	2.4	1	1.2	2	1.9
21	3	3.2	4	3.8	4	5.2	2	2.4	2	2.4	2	1.8
22	2	2.1	4	3.9	4	5.2	3	3.7	2	2.4	3	2.8
23	2	2.1	3	3.0	4	5.2	2	2.5	3	3.6	4	3.7
24	2	2.1	3	2.9	3	3.9	2	2.5	4	4.8	3	2.8
25	2	2.0	4	3.8	2	2.5	2	2.5	5	6.0	2	1.9
26	3	3.0	4	3.8	3	3.8	2	2.5	4	4.8	1	.93
27	3	3.0	4	3.8	3	3.8	3	3.8	4	4.8	2	1.9
28	3	3.1	4	3.8	2	2.5	3	3.8	4	4.7	2	1.9
29	2	2.1	3	2.8	2	2.5	3	3.8	3	3.5	3	2.8
30	2	2.1	3	2.7	3	3.7	3	3.8	3	3.5	3	2.8
31	---	---	4	3.6	---	---	3	3.8	4	4.7	---	---
TOTAL	---	155.3	---	127.4	---	120.5	---	123.3	---	116.2	---	66.80

TOTAL LOAD FOR YEAR: 1921.95 TONS.

11525655 TRINITY RIVER BELOW LIMEKILN GULCH, NEAR DOUGLAS CITY, CA--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1984	10260.00	122.55	0	123
NOVEMBER ...	14615.00	509.50	0	510
DECEMBER ...	13540.00	102.30	0	102
JANUARY 1985	11509.00	94.10	0	94
FEBRUARY ...	12649.00	283.70	0	284
MARCH	11494.00	100.30	0	100
APRIL	12716.00	155.30	0	155
MAY	11182.00	127.40	0	127
JUNE	12591.00	120.50	0	121
JULY	14135.00	123.30	0	123
AUGUST	13905.00	116.20	0	116
SEPTEMBER ..	10435.00	66.80	0	67
TOTAL	149031.00	1921.95	0	1922

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	STREAM-FLOW, INSTAN-TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
MAR												
11...	1220	7.5	1	365	--	1	2	7	18	28	50	100
11...	1225	7.5	1	365	--	2	4	8	16	22	42	100
11...	1230	7.5	1	365	2	5	14	19	23	26	38	100
11...	1235	7.5	1	365	1	3	22	82	99	100	--	--
11...	1240	7.5	1	365	1	2	2	4	8	14	32	100

11527000 TRINITY RIVER NEAR BURNT RANCH, CA

LOCATION.--Lat 40°47'20", long 123°26'20", in S 1/2 sec.19, T.5 N., R.7 E., Trinity County, Hydrologic Unit 18010211, Trinity National Forest, on left bank 500 ft upstream from Cedar Flat Creek, 700 ft upstream from highway bridge at Cedar Flat, and 2.3 mi southeast of town of Burnt Ranch.

DRAINAGE AREA.--1,439 mi^2.

PERIOD OF RECORD.--October 1931 to September 1940, October 1956 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WDR CA-78-2: 1975 (M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 944.05 ft above National Geodetic Vertical Datum of 1929. October 1, 1931, to Jan. 19, 1940, at site 2 mi upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated since November 1960 by Clair Engle Lake (station 11525400), 64 mi upstream, and by transbasin diversion to Judge Francis Carr powerplant (station 11525430) since April 1963. Small diversions above station for irrigation.

AVERAGE DISCHARGE.--13 years (water years 1932-40, 1957-60), 2,785 ft^3/s, 2,016,000 acre-ft/yr; 22 years (water years 1964-85), 1,795 ft^3/s, 1,300,000 acre-ft/yr .

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 81,500 ft^3/s, Feb. 25, 1958, gage height, 30.50 ft, from rating curve extended above 40,000 ft^3/s on basis of slope-area measurement at gage height 43.2 ft; minimum 82 ft^3/s, Aug. 31, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1955, reached a stage of 43.2 ft, from floodmarks, discharge, 172,000 ft^3/s, on basis of slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,900 ft^3/s, Nov. 12, gage height, 11.70 ft; minimum daily, 415 ft^3/s, Sept. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	431	575	3440	1040	910	1350	2210	1480	796	641	570	498
2	436	2150	3010	1010	910	1310	3150	1570	834	634	566	458
3	432	2570	3100	1000	884	1240	3690	1480	790	634	549	436
4	426	1150	2760	1000	865	1220	3490	1300	797	635	536	429
5	426	882	2560	1000	864	1170	3390	1200	885	626	528	421
6	429	1000	2500	1010	868	1160	3520	1190	1130	619	525	415
7	429	1170	2370	1080	959	1150	3540	1150	1300	609	519	426
8	429	1160	2260	1120	1600	1120	3190	1110	1120	607	517	456
9	435	1340	2160	1140	1850	1070	3050	1070	981	599	517	488
10	460	2660	2410	1140	1700	1060	2920	1020	916	598	516	508
11	624	4980	3040	1110	1650	1070	2730	992	892	589	514	509
12	589	10100	2820	1080	1720	1070	2380	952	938	583	508	493
13	825	8330	2530	1060	1910	1070	2340	957	967	579	507	478
14	655	5430	2270	1050	1870	1070	2610	1020	894	578	507	487
15	551	3400	2150	1030	1900	1070	2810	1010	921	573	507	504
16	540	2560	1970	1040	2050	1090	2430	1030	986	567	504	486
17	581	2210	1810	1140	2020	1100	2050	1060	1000	566	509	474
18	531	2680	1710	1270	1860	1100	1800	1100	1040	560	526	465
19	550	2430	1580	1290	1730	1110	1640	1110	1020	555	544	462
20	625	2290	1480	1270	1630	1130	1490	1110	1000	550	540	456
21	598	2140	1410	1250	1520	1130	1420	1070	937	547	538	450
22	565	1870	1340	1210	1500	1100	1360	1090	844	564	529	448
23	549	1700	1300	1170	1550	1070	1290	1190	808	567	522	443
24	544	2720	1260	1150	1570	1160	1250	1260	765	551	517	440
25	551	2450	1230	1100	1560	1100	1200	1220	719	545	512	437
26	547	2070	1220	1090	1510	1150	1170	1190	686	542	508	434
27	611	2660	1180	1040	1430	1170	1210	1080	673	549	507	432
28	571	5490	1150	1010	1360	1180	1280	1010	670	552	503	430
29	737	4950	1110	980	---	1180	1330	980	662	550	501	429
30	689	3780	1100	953	---	1250	1380	877	651	545	501	425
31	617	---	1070	926	---	1550	---	819	---	545	499	---
TOTAL	16983	88897	61300	33759	41750	35770	67320	34697	26622	17959	16146	13717
MEAN	548	2963	1977	1089	1491	1154	2244	1119	887	579	521	457
MAX	825	10100	3440	1290	2050	1550	3690	1570	1300	641	570	509
MIN	426	575	1070	926	864	1060	1170	819	651	542	499	415
AC-FT	33690	176300	121600	66960	82810	70950	133500	68820	52800	35620	32030	27210

CAL YR 1984 TOTAL 663418 MEAN 1813 MAX 10300 MIN 423 AC-FT 1316000
WTR YR 1985 TOTAL 454920 MEAN 1246 MAX 10100 MIN 415 AC-FT 902300

11528700 SOUTH FORK TRINITY RIVER BELOW HYAMPOM, CA

LOCATION.--Lat 40°39'00", long 123°29'35", in NW 1/4 SW 1/4 sec.10, T.3 N., R.6 E., Trinity County, Hydrologic Unit 18010212, Trinity National Forest, on left bank 0.3 mi downstream from Big Creek, 3.0 mi northeast of Hyampom, and 3.5 mi downstream from Hayfork Creek.

DRAINAGE AREA.--764 mi^2.

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,211.37 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharge. Records good. No regulation or diversion above station.

AVERAGE DISCHARGE.--20 years, 1,515 ft^3/s, 1,098,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 73,300 ft^3/s, Jan. 26, 1983, gage height, 28.00 ft, from rating curve extended above 23,000 ft^3/s on basis of flood-routing study at gage height 30.45 ft; minimum daily, 14 ft^3/s, Aug. 24, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1964, reached a stage of 30.45 ft, from floodmarks, discharge, 88,000 ft^3/s, on basis of flood-routing study.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 11	2045	12,300	12.37	Nov. 27	1845	*13,500	*12.86

Minimum daily, 50 ft^3/s, Aug. 30 and Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	180	4090	926	577	867	1990	668	327	136	70	50
2	95	1300	3730	901	578	846	3180	647	326	133	71	53
3	96	1960	3520	873	555	816	3690	630	318	130	71	56
4	95	904	3050	848	541	820	3300	614	306	124	70	57
5	95	540	2890	836	525	804	2900	594	298	119	68	56
6	95	626	2780	840	514	802	2500	577	296	117	64	56
7	95	872	2560	924	795	799	2100	561	291	112	62	56
8	95	1220	2400	949	4000	766	1760	546	288	110	61	60
9	96	1550	2280	971	2420	739	1610	528	274	105	61	70
10	114	3740	2910	954	1630	769	1520	516	263	103	60	98
11	167	7030	3500	909	1470	785	1410	507	252	101	59	105
12	193	8130	3110	879	1800	792	1310	490	244	98	58	96
13	184	6860	2730	855	2060	774	1250	471	233	94	56	89
14	160	4350	2380	828	1840	748	1220	457	226	92	55	87
15	150	2810	2240	802	1710	733	1190	438	220	90	54	86
16	168	2380	2020	780	1670	723	1140	424	215	86	54	85
17	204	2130	1840	780	1590	717	1100	417	208	83	53	84
18	202	3400	1690	805	1470	712	1040	414	200	81	57	82
19	208	2620	1540	810	1340	703	1000	405	192	80	64	80
20	209	2220	1460	800	1240	689	957	392	187	77	65	77
21	204	1900	1360	789	1170	673	958	380	184	76	63	75
22	190	1600	1280	758	1100	657	927	370	175	78	61	74
23	176	1520	1230	728	1060	646	871	363	166	79	60	73
24	167	3980	1180	705	1040	875	829	358	159	79	59	73
25	160	2920	1140	686	1020	814	797	351	156	73	57	71
26	161	2170	1120	670	988	828	766	341	154	72	55	69
27	159	6710	1080	648	940	916	748	334	149	69	53	67
28	183	10200	1040	636	888	920	728	338	145	70	52	66
29	210	6070	999	621	---	928	706	361	143	71	52	65
30	202	4740	987	600	---	1040	682	353	139	70	51	64
31	193	---	964	582	---	1360	---	334	---	70	50	---
TOTAL	4820	96632	65100	24693	36531	25061	44179	14179	6734	2878	1846	2180
MEAN	155	3221	2100	797	1305	808	1473	457	224	92.8	59.5	72.7
MAX	210	10200	4090	971	4000	1360	3690	668	327	136	71	105
MIN	94	180	964	582	514	646	682	334	139	69	50	50
AC-FT	9560	191700	129100	48980	72460	49710	87630	28120	13360	5710	3660	4320

CAL YR 1984 TOTAL 473401 MEAN 1293 MAX 10200 MIN 83 AC-FT 939000
WTR YR 1985 TOTAL 324833 MEAN 890 MAX 10200 MIN 50 AC-FT 644300

11530000 TRINITY RIVER AT HOOPA, CA

LOCATION.--Lat 41°03'00", long 123°40'15", in SE 1/4 NW 1/4 sec.25, T.8 N., R.4 E., Humboldt County, Hydrologic Unit 18010211, in Hoopa Valley Indian Reservation, on left bank at Hoopa, 0.4 mi upstream from Supply Creek.

DRAINAGE AREA.--2,853 mi^2.

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.

REVISED RECORDS.--WSP 1565: 1913. WDR CA-77-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 274.82 ft above National Geodetic Vertical Datum of 1929. Prior to October 1931, nonrecording gage at site 0.4 mi upstream at different datum. October 1931 to Dec. 22, 1964, water-stage recorder at site 2.5 mi upstream at datum 31.67 ft higher.

REMARKS.--Estimated daily discharges: Nov. 12 and Feb. 5. Records good. Flow regulated since November 1960 by Clair Engle Lake (station 11525400) 84 mi upstream, and by transbasin diversion to Judge Francis Carr Powerplant (station 11525430) since April 1963. Small diversions above station for irrigation.

AVERAGE DISCHARGE .--33 years (water years 1912-13, 1917-18, 1932-60), 5,619 ft^3/s, 4,071,000 acre-ft/yr; 22 years (water years 1964-85), 5,115 ft^3/s, 3,706,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 231,000 ft^3/s, Dec. 22, 1964, gage height, 57.0 ft present site and datum, from floodmarks; minimum, 162 ft^3/s, Oct. 4, 1931.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 22,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 12	Unknown	*43,300	*28.54	Nov. 28	1215	34,300	26.38

Minimum daily, 563 ft^3/s, Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	684	1130	13100	3290	2130	3650	6640	3190	1720	1040	817	700
2	693	3340	11300	3170	2190	3600	9590	3290	1760	1030	844	712
3	696	8310	10700	3090	2120	3440	11600	3200	1700	1020	824	662
4	686	3950	9460	3040	2070	3390	10800	2970	1650	1010	802	655
5	683	2560	8620	3010	1900	3300	9810	2750	1680	993	778	647
6	683	2760	8090	3000	1990	3230	9260	2650	1800	981	766	638
7	683	3460	7490	3130	2670	3170	8400	2590	2200	966	760	642
8	683	3800	7010	3300	9530	3090	7540	2490	2020	955	750	665
9	706	4920	6630	3340	7470	2940	7120	2390	1820	947	750	705
10	787	8350	7020	3330	5650	2980	6750	2300	1700	936	749	749
11	1120	31500	8940	3180	5150	3040	6330	2230	1630	929	742	792
12	1150	28600	8810	2960	7570	3020	5700	2160	1610	920	733	778
13	1260	28400	8100	2930	7800	3000	5380	2120	1630	908	723	757
14	1250	18300	7270	2830	7110	2910	5490	2130	1560	894	723	797
15	999	11400	6920	2800	6640	2880	5640	2150	1520	890	717	787
16	975	8740	6390	2760	6480	2870	5270	2100	1570	882	715	732
17	1090	7280	5840	2850	6130	2860	4780	2120	1570	870	710	694
18	1050	8870	5510	3060	5620	2840	4400	2140	1560	865	735	663
19	1130	8400	5190	3150	5210	2810	4160	2140	1550	851	775	648
20	1270	7900	4890	3080	4930	2790	3880	2120	1520	842	790	639
21	1210	7300	4670	3020	4630	2770	3740	2070	1460	831	781	625
22	1100	6280	4470	2920	4420	2540	3690	2030	1350	850	768	613
23	1030	5800	4270	2820	4390	2650	3470	2090	1270	867	750	603
24	1000	9680	4040	2720	4370	3270	3320	2170	1230	844	740	591
25	979	9610	3870	2620	4290	3220	3170	2130	1170	818	729	590
26	994	7830	3940	2530	4130	3370	3050	2060	1130	803	720	590
27	1050	12300	3820	2450	3730	3810	3020	2010	1100	791	712	581
28	1190	32600	3720	2420	3730	3970	3080	1930	1080	794	705	574
29	1710	23300	3560	2350	---	3960	3090	2010	1070	799	704	569
30	1480	15800	3540	2200	---	4020	3100	1870	1060	796	696	563
31	1250	---	3450	2210	---	4750	---	1750	---	800	696	---
TOTAL	31271	332470	200630	89560	134050	100140	171270	71350	45690	27722	23204	19961
MEAN	1009	11080	6472	2889	4788	3230	5709	2302	1523	894	749	665
MAX	1710	32600	13100	3340	9530	4750	11600	3290	2200	1040	844	797
MIN	683	1130	3450	2200	1900	2540	3020	1750	1060	791	696	563
AC-FT	62030	659500	397900	177600	265900	198600	339700	141500	90630	54990	46030	39590

CAL YR 1984	TOTAL	1874926	MEAN	5123	MAX	32600	MIN	666	AC-FT	3719000
WTR YR 1985	TOTAL	1247318	MEAN	3417	MAX	32600	MIN	563	AC-FT	2474000

11530020 SUPPLY CREEK AT HOOPA, CA

LOCATION.--Lat 41°03'06", long 123°40'47", in NW 1/4 sec.25, T.8 N., R.4 E., Hoopa Valley Indian Reservation, Humboldt County, Hydrologic Unit 18010211, on left bank side at upstream side of bridge on Loop Road, 1,800 ft upstream from mouth and 1.0 mi downstream from Rock Creek.

DRAINAGE AREA.--15.8 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1981 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 350 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharge. Records fair. Some diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,060 ft^3/s, Dec. 16, 1982, gage height, 4.62 ft; minimum daily, 4.1 ft^3/s, Aug. 29, 1985.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 750 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 12	0345	*1,020	*3.67	Nov. 28	0900	867	3.44

Minimum daily, 4.10 ft^3/s, Aug. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	14	276	51	28	54	135	30	19	7.7	5.4	4.6
2	6.0	221	261	50	28	52	155	29	19	7.3	5.3	4.7
3	6.0	135	266	48	28	51	160	29	16	7.3	5.1	4.4
4	5.9	66	201	47	27	55	145	28	17	7.0	5.0	4.2
5	6.0	46	166	46	26	52	130	27	16	7.0	5.0	4.2
6	6.0	95	136	45	26	51	121	26	20	7.0	5.0	4.7
7	6.0	83	120	45	168	51	107	25	21	6.8	5.0	4.9
8	6.3	120	110	44	295	50	93	24	21	6.6	5.1	4.9
9	7.0	139	100	45	155	49	85	24	18	6.6	4.9	5.3
10	14	278	105	43	119	53	77	23	16	6.4	4.9	5.3
11	23	505	100	41	155	52	70	22	15	6.4	4.8	5.2
12	13	697	117	40	300	52	64	22	14	6.4	4.6	5.0
13	19	385	117	38	208	51	59	21	13	6.3	4.6	7.7
14	9.6	250	105	38	159	50	57	21	12	6.0	4.6	8.9
15	8.1	160	103	37	135	48	54	20	12	6.0	4.5	5.5
16	12	113	95	36	121	48	51	19	12	5.9	4.4	5.1
17	13	102	90	35	107	47	48	19	11	5.7	4.5	4.9
18	12	147	86	34	96	45	46	18	10	5.7	5.0	4.9
19	22	125	79	33	89	45	44	18	10	5.5	5.1	4.8
20	22	156	72	33	83	44	42	18	9.5	5.5	4.9	4.8
21	15	129	68	33	77	43	44	17	9.1	5.6	4.8	4.7
22	12	102	62	32	72	42	43	17	8.9	5.9	4.6	4.7
23	10	125	59	31	68	46	40	17	8.7	5.4	4.5	4.6
24	9.1	165	57	30	65	76	37	17	8.3	5.2	4.4	4.5
25	8.4	137	55	30	63	64	35	16	8.2	5.0	4.2	4.4
26	11	116	54	30	61	86	34	16	8.1	5.0	4.2	4.3
27	11	413	52	29	57	101	33	15	7.9	5.0	4.2	4.4
28	34	745	51	30	56	102	32	20	7.6	5.0	4.2	4.4
29	40	391	49	29	---	100	32	21	7.7	5.0	4.1	4.4
30	23	340	56	28	---	97	31	17	8.0	5.2	4.2	4.4
31	17	---	54	27	---	110	---	17	---	5.3	4.2	---
TOTAL	413.4	6500	3322	1158	2872	1867	2104	653	384.0	186.7	145.3	148.8
MEAN	13.3	217	107	37.4	103	60.2	70.1	21.1	12.8	6.02	4.69	4.96
MAX	40	745	276	51	300	110	160	30	21	7.7	5.4	8.9
MIN	5.9	14	49	27	26	42	31	15	7.6	5.0	4.1	4.2
AC-FT	820	12890	6590	2300	5700	3700	4170	1300	762	370	288	295

CAL YR 1984	TOTAL	26127.6	MEAN	71.4	MAX	745	MIN	5.1	AC-FT	51820
WTR YR 1985	TOTAL	19754.2	MEAN	54.1	MAX	745	MIN	4.1	AC-FT	39180

11530020 SUPPLY CREEK AT HOOPA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1981 to April 1985 (discontinued).
WATER TEMPERATURES: November 1981 to April 1985 (discontinued).
SEDIMENT RECORDS: November 1981 to April 1985 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: November 1981 to April 1985 (discontinued).
SEDIMENT RECORDS: November 1981 to April 1985 (discontinued).

REMARKS.--Water quality data collected only during the storm season (normally November through April). Sediment samples were collected on most days where a water temperature is published.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,490 mg/L, Dec. 19, 1981; minimum daily mean, 0 mg/L, many days in 1983.
SEDIMENT LOAD: Maximum daily, 9,950 tons, Dec, 19, 1981; minimum daily, 0 ton many days in 1983.

EXTREMES FOR CURRENT YEAR (storm season only).--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 340 mg/L, Nov. 12; minimum daily mean, 2 mg/L, several days.
SEDIMENT LOAD: Maximum daily, 707 tons, Nov. 12; minimum daily, 0.08 tons, Nov. 1.

TEMPERATURE (DEG. C) OF WATER, NOVEMBER 1984 TO APRIL 1985
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	---	---	7.0	6.0	---					
2		12.0	---	6.0	---	---	---					
3		11.0	8.0	---	7.0	---	9.0					
4		11.0	---	---	---	5.0	10.0					
5		---	---	8.0	6.0	---	7.0					
6		11.0	8.0	---	---	5.5	---					
7		---	---	10.0	7.0	---	---					
8		9.0	7.0	---	---	7.0	2.0					
9		---	---	7.5	6.0	---	---					
10		---	8.5	---	---	8.5	3.0					
11		11.0	---	7.5	7.0	---	---					
12		11.0	---	---	7.0	8.5	1.0					
13		10.0	6.5	7.5	7.5	---	---					
14		10.0	---	---	8.0	9.0	---					
15		---	7.5	7.0	---	---	---					
16		---	---	---	8.0	8.0	1.0					
17		---	7.5	8.0	---	---	---					
18		---	---	---	---	9.0	---					
19		9.5	---	8.5	8.0	---	---					
20		9.0	7.0	---	---	8.0	---					
21		---	---	7.5	8.0	---	---					
22		---	8.0	7.0	---	---	---					
23		9.0	---	---	9.0	7.0	10.0					
24		---	---	7.0	---	---	---					
25		---	---	---	8.5	4.0	---					
26		---	7.0	---	---	3.5	---					
27		9.0	---	7.0	8.0	---	---					
28		9.5	8.0	---	---	5.0	---					
29		8.0	---	---	---	---	10.0					
30		---	8.0	5.5	---	---	---					
31		---	---	---	---	8.0	---					
MONTH		---	---	---	---	---	---					

11530020 SUPPLY CREEK AT HOOPA, CA--Continued

SUSPENDED-SEDIMENT, NOVEMBER 1984 TO APRIL 1985

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1			2	.08	37	28	7	.96	3	.23	3	.44
2			196	136	41	29	7	.95	3	.23	3	.42
3			34	12	35	25	6	.78	2	.15	2	.28
4			8	1.4	23	12	4	.51	2	.15	5	.74
5			2	.25	15	6.7	3	.37	2	.14	4	.56
6			46	12	9	3.3	4	.49	2	.14	3	.41
7			18	4.0	8	2.6	4	.49	102	109	5	.69
8			84	30	8	2.4	4	.48	120	96	8	1.1
9			27	10	8	2.2	4	.49	17	7.1	5	.66
10			123	98	10	2.8	5	.58	8	2.6	3	.43
11			299	538	8	2.2	5	.55	62	51	4	.56
12			340	707	11	3.5	7	.76	125	107	3	.42
13			130	135	9	2.8	9	.92	20	11	3	.41
14			55	37	8	2.3	6	.62	13	5.6	3	.41
15			28	12	7	1.9	4	.40	10	3.6	3	.39
16			18	5.5	7	1.8	4	.39	9	2.9	3	.39
17			17	5.1	8	1.9	3	.28	8	2.3	3	.38
18			21	8.4	8	1.9	3	.28	7	1.8	3	.36
19			10	3.4	7	1.5	3	.27	7	1.7	4	.49
20			33	9.2	6	1.2	3	.27	6	1.3	4	.48
21			7	2.4	5	.92	2	.18	5	1.0	4	.46
22			2	.55	2	.33	2	.17	5	.97	5	.57
23			21	9.7	3	.48	2	.17	6	1.1	7	1.0
24			22	9.8	4	.62	2	.16	5	.88	18	3.7
25			13	4.8	4	.59	2	.16	4	.68	8	1.4
26			11	3.4	4	.58	3	.24	5	.82	15	3.7
27			228	386	7	.98	3	.23	5	.77	9	2.5
28			325	673	10	1.4	3	.24	4	.60	6	1.7
29			118	125	7	.93	2	.16	---	---	6	1.6
30			48	44	9	1.4	2	.15	---	---	6	1.6
31			---	---	8	1.2	2	.15	---	---	13	4.0
TOTAL	---		---	3022.98	---	144.43	---	12.85	---	410.76	---	32.25

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	18	6.6										
2	19	8.0										
3	13	5.6										
4	9	3.5										
5	8	2.8										
6	7	2.3										
7	6	1.7										
8	5	1.3										
9	6	1.4										
10	8	1.7										
11	7	1.3										
12	7	1.2										
13	7	1.1										
14	7	1.1										
15	7	1.0										
16	7	.96										
17	7	.91										
18	6	.75										
19	5	.59										
20	5	.57										
21	5	.59										
22	4	.46										
23	4	.43										
24	4	.40										
25	4	.38										
26	4	.37										
27	4	.36										
28	4	.35										
29	4	.35										
30	4	.33										
31	---	---										
TOTAL	---	48.40										

TOTAL LOAD FOR PERIOD: 3671.67 TONS.

11530020 SUPPLY CREEK AT HOOPA, CA--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO APRIL 1985

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
NOVEMBER 1984	6500.00	3022.98	1170	4190
DECEMBER	3322.00	144.43	66	210
JANUARY 1985	1158.00	12.85	0	13
FEBRUARY	2872.00	410.76	111	522
MARCH	1867.00	32.25	0	32
APRIL	2104.00	48.40	0	48
TOTAL	17823.00	3671.67	1347	5015

11530500 KLAMATH RIVER NEAR KLAMATH, CA
(National stream-quality accounting network station)

LOCATION.--Lat 41°30'52", long 123°59'57", in SW 1/4, sec.13, T.13 N., R.2 E., Del Norte County, Hydrologic Unit 18010209, on right bank 0.2 mi upstream from Turwar Creek, and 2.2 mi southeast of Klamath.

DRAINAGE AREA.--12,100 mi^2, approximately (not including Lost River or Lower Klamath Lake basins).

WATER-DISCHARGE RECORDS

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.

REVISED RECORDS.--WSP 1285: 1951(P). WSP 1445: 1918-20. WDR CA-81-2: 1980.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to June 1926, nonrecording gage at site 2.6 mi upstream at different datum. June 1926 to Oct. 2, 1975, at site 2.6 mi upstream at datum 5.60 ft higher.

REMARKS.--Estimated daily discharge: June 5. Records fair. Flow considerably regulated by reservoirs and powerplants above station. Large diversions for irrigation above station.

AVERAGE DISCHARGE.--51 years, 18,060 ft^3/s, 13,084,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 557,000 ft^3/s, Dec. 23, 1964, gage height, 55.3 ft former datum, from floodmarks, from rating curve extended above 230,000 ft^3/s on basis of flood-routing study; minimum daily, 1,310 ft^3/s, Sept. 4, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 90,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 12	1715	*149,000	*23.57	Nov. 28	1715	109,000	20.92

Minimum daily, 3,040 ft^3/s, Aug. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3990	9710	60200	15200	10100	15500	26900	16600	9030	4350	3190	3190
2	4080	21300	49800	14900	10200	15400	34100	17100	9440	4240	3260	3050
3	4130	47100	46000	14400	9820	14800	40200	16500	8790	4190	3490	3340
4	4130	30400	40600	13800	9730	15000	40300	15100	8590	4150	3470	3350
5	4150	20500	36000	13500	9520	14900	38100	13500	7600	4000	3380	3280
6	4360	19900	32900	13400	9310	14500	37900	13000	7410	4000	3350	3290
7	4580	25500	30600	13600	12700	14000	37900	12600	14700	3930	3280	3310
8	4650	24300	28900	13900	32900	13500	35600	12000	14900	3740	3240	3470
9	4830	26900	27300	13900	28900	13100	34200	11500	12700	3640	3160	3670
10	5690	35600	27600	13800	22800	13300	34500	11000	11100	3700	3170	3800
11	8190	54500	31100	13400	20700	13500	34000	10500	10200	3660	3100	4100
12	8380	126000	32100	12800	43200	13200	33600	9710	9270	3640	3150	4380
13	8970	106000	32100	12500	41400	13100	31600	9470	8990	3580	3180	4380
14	9140	76900	29400	12200	34300	13000	31500	9420	8200	3600	3140	4530
15	7500	51500	28100	12000	30000	12800	32600	9350	7470	3580	3140	4670
16	6830	39100	26800	11700	28500	12800	31600	9350	7050	3560	3090	4440
17	7380	33500	24900	11900	27100	12800	27300	9660	6960	3440	3060	4130
18	7410	38800	23600	12600	24500	12800	23700	9680	6930	3460	3100	4090
19	7790	39900	22000	12500	22600	12800	21800	9830	6810	3480	3150	4190
20	9750	39200	20700	12300	21200	13000	20000	9810	6350	3380	3220	4150
21	10400	38400	19600	12300	19600	13000	18900	9580	5990	3310	3170	4140
22	9410	33800	18800	12000	18500	13300	18600	9300	5800	3350	3180	4170
23	8840	30300	18100	11800	18200	13900	17200	9460	5590	3410	3180	4090
24	8570	39200	17700	11500	18300	20600	17000	10600	5210	3250	3140	4150
25	8500	42400	17100	11200	18000	19400	16500	10500	4990	3210	3090	4120
26	8720	37100	16500	10900	17600	19200	15600	10300	4960	3210	3050	4220
27	9650	42200	16300	10700	16700	23200	15600	10200	4840	3190	3160	4210
28	10400	98900	15900	10700	15800	24400	16000	10100	4630	3190	3150	4210
29	14600	89200	15500	10500	---	23200	15900	10400	4530	3210	3040	4180
30	12600	70000	16000	10300	---	21400	16500	9340	4490	3250	3050	4080
31	10600	---	15800	10000	---	21500	---	8890	---	3230	3050	---
TOTAL	238220	1388110	838000	386200	592180	486900	815200	344350	233520	111130	98580	118380
MEAN	7685	46270	27030	12460	21150	15710	27170	11110	7784	3585	3180	3946
MAX	14600	126000	60200	15200	43200	24400	40300	17100	14900	4350	3490	4670
MIN	3990	9710	15500	10000	9310	12800	15600	8890	4490	3190	3040	3050
AC-FT	472500	2753000	1662000	766000	1175000	965800	1617000	683000	463200	220400	195500	234800

CAL YR 1984	TOTAL	8255370	MEAN	22560	MAX	126000	MIN	3370	AC-FT	16370000
WTR YR 1985	TOTAL	5650770	MEAN	15480	MAX	126000	MIN	3040	AC-FT	11210000

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.
CHEMICAL ANALYSES: Water years 1951 to current year.
BIOLOGICAL DATA: Water years 1975-81.
SPECIFIC CONDUCTANCE: Water years 1975-81.
WATER TEMPERATURES: Water years 1966-81.
SEDIMENT RECORDS: Water years 1955-56, 1975 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1974 to September 1981.
WATER TEMPERATURES: November 1965 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 27.0°C, Sept. 12, 1979; minimum recorded, 2.5°C, Feb. 2, 1972.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
NOV												
06...	1400	19000	138	7.8	10.0	760	15	10.5	93	48	78	59
JAN												
15...	1430	11400	159	7.8	5.5	765	4.0	12.3	97	K2	K2	70
FEB												
21...	1200	19700	139	7.8	7.5	765	6.9	11.5	96	K2	K8	65
MAR												
14...	1530	13000	144	8.1	9.0	760	--	12.2	106	--	--	--
MAY												
08...	1250	11700	132	7.5	13.0	765	4.2	10.7	101	K1	K3	59
JUL												
17...	1400	2990	175	8.3	22.0	755	1.6	9.4	109	<1	46	78
SEP												
12...	1635	4350	194	8.0	17.0	765	3.0	9.4	97	36	36	81

DATE	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE IT-FLD (MG/L AS HCO3)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L - CACO3)	ALKA-LINITY FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
NOV												
06...	2	13	6.3	6.5	19	.4	1.2	--	--	57	9.2	3.3
JAN												
15...	2	16	7.3	6.2	16	.3	1.1	83	68	69	11	2.9
FEB												
21...	3	15	6.8	4.7	13	.3	.80	76	62	62	6.2	2.2
MAR												
14...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
08...	2	14	5.9	4.4	14	.3	.90	70	57	56	6.3	2.1
JUL												
17...	3	19	7.4	6.5	15	.3	1.2	91	74	76	8.5	3.4
SEP												
12...	0	18	8.6	11	22	.5	1.7	100	82	81	11	4.7

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
NOV												
06...	<.10	19	94	93	.13	4820	.17	.040	.50	.080	.040	.030
JAN												
15...	<.10	20	96	110	.13	2950	.25	.030	<.20	.040	.030	.030
FEB												
21...	<.10	17	93	90	.13	4950	.13	.070	.20	.030	.030	.020
MAR												
14...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
08...	<.10	16	81	84	.11	2560	<.10	.020	.20	.020	.010	<.010
JUL												
17...	<.10	14	104	100	.14	840	<.10	.020	.30	.030	.020	<.010
SEP												
12...	.10	22	120	130	.16	1410	.12	.030	.50	.080	.060	.030

See footnotes at end of table.

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
NOV											
06...	1400	80	1	18	<.5	1	<1	<3	2	41	1
JAN											
15...	1430	20	1	19	<.5	<1	3	<3	1	36	6
MAY											
08...	1250	20	<1	15	<.5	<1	<1	<3	1	20	8
SEP											
12...	1635	<10	3	21	<.5	<1	1	<3	3	13	1

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
NOV										
06...	<4	4	<.1	<10	3	<1	<1	80	<6	7
JAN										
15...	5	4	<.1	<10	1	<1	<1	87	<6	16
MAY										
08...	<4	3	<.1	<10	2	<1	<1	72	<6	5
SEP										
12...	9	<1	<.1	<10	2	<1	<1	110	<6	<3

K Results based on colony count outside the acceptable range (non-ideal colony count).
< Actual value is known to be less than the value shown.

CROSS-SECTIONAL DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
MAR						
14...	1150	182	144	8.1	9.5	12.3
14...	1245	292	144	8.1	9.0	12.2
14...	1340	382	144	8.1	9.0	12.3
14...	1435	472	144	8.1	9.0	12.3
14...	1530	562	145	8.1	9.0	12.3
SEP						
12...	1525	195	194	7.8	16.5	9.6
12...	1610	295	194	8.0	17.0	10.2
12...	1630	385	194	8.0	17.0	11.6
12...	1700	465	198	8.0	17.0	9.5
12...	1745	545	195	8.0	17.0	12.0

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV						
06...	1400	19000	10.0	61	3130	52
JAN						
15...	1430	11400	5.5	12	369	--
FEB						
21...	1200	19700	7.5	37	1970	--
MAR						
14...	1530	13000	9.0	8	281	--
MAY						
08...	1250	11700	13.0	19	600	--
JUL						
17...	1400	2990	22.0	4	32	--
SEP						
12...	1635	4350	17.0	11	129	--

11532500 SMITH RIVER NEAR CRESCENT CITY, CA
(National stream-quality accounting network station)

LOCATION.--Lat 41°47'22", long 124°03'14", in SW 1/4 SW 1/4 sec.10, T.16 N., R.1 E. (unsurveyed), Del Norte County, Hydrologic Unit 18010101, Six Rivers National Forest, on left bank 0.5 mi downstream from South Fork, and 8 mi east of Crescent City.

DRAINAGE AREA.--609 mi^2.

WATER-DISCHARGE RECORDS

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 above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharge: July 27 to Aug. 20. Records good. No regulation or diversion above station.

AVERAGE DISCHARGE.--54 years, 3,874 ft^3/s, 2,807,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 228,000 ft^3/s, Dec. 22, 1964, gage height, 48.5 ft, from floodmarks, from rating curve extended above 110,000 ft^3/s on basis of slope-area measurement at gage height 39.51 ft; minimum daily, 160 ft^3/s, Oct. 24, 25, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 36,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 12	1800	*55,700	*26.76	Nov. 28	1200	39,300	23.79

Minimum daily, 257 ft^3/s, Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	279	1010	14800	3110	1050	1860	7420	1540	1180	638	400	307
2	281	13300	10100	2720	1130	1770	8000	1510	1770	616	410	334
3	275	13300	8300	2450	1090	1680	7350	1630	1350	595	390	336
4	277	11700	6810	2270	1040	2010	6250	1500	1210	583	372	316
5	293	5280	5720	2140	1010	2080	5680	1380	1120	566	360	304
6	295	8000	4900	2080	1010	2120	5210	1320	2980	556	345	302
7	286	8790	4310	2060	8920	2010	4590	1270	6640	545	340	329
8	290	8770	3920	1980	13500	1920	3970	1210	5920	527	332	336
9	373	9250	3860	1930	6980	1890	3650	1180	3480	518	330	349
10	522	16800	4300	1810	5210	2060	3400	1140	2510	502	330	373
11	1240	23200	4450	1720	9460	2260	3220	1100	2020	496	330	358
12	711	45300	5050	1640	22000	2330	2860	1060	1730	489	330	357
13	1450	32300	5110	1570	10900	2130	2630	1030	1540	477	330	436
14	739	17900	4450	1520	7480	2010	2570	1020	1390	462	330	554
15	530	10300	4730	1460	6110	1930	2400	988	1290	451	332	558
16	464	7260	4450	1430	5290	1870	2210	982	1190	441	338	396
17	526	5960	4050	1470	4440	1800	2030	986	1110	431	340	350
18	488	9940	3710	1500	3810	1720	1920	964	1040	427	350	341
19	1260	8400	3360	1450	3430	1650	1920	940	984	419	350	319
20	2130	8310	3090	1400	3190	1600	1760	918	928	409	335	303
21	1270	7400	2940	1350	2880	1600	1840	895	870	407	338	294
22	891	5880	2770	1300	2710	1630	2550	877	829	407	331	284
23	701	5710	2630	1250	2640	5420	2410	862	798	407	324	275
24	597	7980	2490	1200	2540	12200	2300	866	763	389	324	272
25	533	6910	2380	1160	2380	6380	2050	837	736	376	319	266
26	756	6200	2270	1140	2200	6590	1870	813	721	369	314	264
27	921	20100	2200	1100	2050	8060	1770	788	697	360	312	262
28	2840	34600	2300	1230	1930	7510	1710	1030	677	352	310	262
29	3500	18700	2190	1110	---	6770	1640	1090	657	350	306	262
30	1730	23700	3990	1060	---	5460	1570	900	654	360	304	257
31	1250	---	3760	1030	---	5630	---	921	---	370	304	---
TOTAL	27698	402250	139390	50640	136380	105950	98750	33547	48784	14295	10460	9956
MEAN	893	13410	4496	1634	4871	3418	3292	1082	1626	461	337	332
MAX	3500	45300	14800	3110	22000	12200	8000	1630	6640	638	410	558
MIN	275	1010	2190	1030	1010	1600	1570	788	654	350	304	257
AC-FT	54940	797900	276500	100400	270500	210200	195900	66540	96760	28350	20750	19750

CAL YR 1984 TOTAL 1533539 MEAN 4190 MAX 45300 MIN 262 AC-FT 3042000
WTR YR 1985 TOTAL 1078100 MEAN 2954 MAX 45300 MIN 257 AC-FT 2138000

11532500 SMITH RIVER NEAR CRESCENT CITY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952 to current year.
CHEMICAL ANALYSES: Water years 1952 to current year.
BIOLOGICAL DATA: Water years 1978-81.
SPECIFIC CONDUCTANCE: Water years 1979-81.
WATER TEMPERATURES: Water years 1966-81.
SEDIMENT RECORDS: Water years 1955-56, November 1977 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1978 to September 1981.
WATER TEMPERATURES: October 1965 to September 1981.
SEDIMENT RECORDS: November 1977 to September 1979, October 1980 to September 1981.

EXTREMES FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 154 microsiemens, Sept. 24-26, 1981; minimum recorded, 62 microsiemens, Jan. 12, 1980.
WATER TEMPERATURES: Maximum recorded, 24.5°C, July 15, 1972, July 26, 27, 1973; minimum recorded, 0.5°C, Dec. 10, 11, 1972.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
DEC												
13...	1230	5140	81	7.4	7.0	765	.40	12.4	102	K4	24	49
MAR												
15...	1230	1870	98	7.8	8.0	760	.60	12.3	104	K2	K2	52
JUN												
13...	1115	1460	103	8.0	16.5	760	.60	10.1	104	K2	K5	58
SEP												
13...	1215	407	141	7.9	15.0	760	.30	10.3	102	K8	35	69

DATE	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE IT-FLD (MG/L AS HCO3)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L - CAC03)	ALKA-LINITY FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
DEC												
13...	7	5.9	8.4	1.8	7	.1	.20	52	43	42	2.1	2.2
MAR												
15...	5	5.3	9.3	1.9	7	.1	.30	57	47	46	2.3	2.0
JUN												
13...	8	6.6	10	2.0	7	.1	.30	61	51	51	2.3	2.0
SEP												
13...	3	7.8	12	2.6	8	.1	.60	80	66	65	4.6	2.8

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
DEC												
13...	<.10	15	52	61	.07	722	<.10	.020	.20	.020	<.010	<.010
MAR												
15...	<.10	14	67	63	.09	338	<.10	.010	<.20	<.010	<.010	<.010
JUN												
13...	<.10	14	56	67	.08	221	<.10	.030	.30	<.010	<.010	<.010
SEP												
13...	<.10	13	76	83	.10	84	<.10	.030	<.20	<.010	<.010	<.010

See footnotes at end of table.

11532500 SMITH RIVER NEAR CRESCENT CITY, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
DEC											
13...	1230	20	<1	7	.8	1	10	<3	1	31	5
MAR											
15...	1230	<10	<1	9	<.5	<1	2	<3	<1	11	<1
JUN											
13...	1115	<10	1	10	<.5	<1	2	<3	2	5	<1
SEP											
13...	1215	<10	<1	13	<.5	<1	2	<3	2	5	1

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
DEC										
13...	<4	1	<.1	<10	6	<1	<1	19	<6	13
MAR										
15...	<4	<1	<.1	<10	8	<1	<1	27	<6	4
JUN										
13...	<4	2	<.1	<10	8	<1	<1	29	<6	11
SEP										
13...	<4	<1	<.1	<10	4	<1	<1	41	<6	8

K Results based on colony count outside the acceptable range (non-ideal colony count).
< Actual value is known to be less than the value shown.

CROSS-SECTIONAL DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
MAR						
15...	1030	93	95	7.8	8.0	12.6
15...	1130	138	95	7.8	8.0	13.2
15...	1235	158	96	7.8	8.0	12.9
15...	1340	183	96	7.8	8.0	12.9
15...	1445	233	95	7.8	8.0	12.9
SEP						
13...	1135	38	142	8.0	15.0	10.6
13...	1200	38	142	8.0	15.0	10.2
13...	1220	81	141	8.0	15.0	9.6
13...	1240	98	141	8.0	15.0	10.1
13...	1305	118	141	8.0	15.0	10.8

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
DEC					
13...	1230	5140	7.0	5	69
JUN					
13...	1115	1460	16.5	6	24
SEP					
13...	1215	407	15.0	2	2.2

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- or flood-flow analyses, depending on the type of data collected.

Records collected at partial-record stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations and the second is a table of annual maximum discharge at crest-stage stations.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. Most of these measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream where continuous records are available, will give a picture of the low-flow potentiality of 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 1985

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements: Date	Measurements: Discharge (ft^3/s)
		Alameda Creek basin				
11177000	Arroyo de la Laguna near Pleasanton, CA	Lat 37°36'55", long 121°52'50", in Valle de San Jose Grant, Alameda County, Hydrologic Unit 18050004, on right bank 0.3 mi upstream from small leftbank tributary, 0.8 mi downstream from highway bridge, and 3.2 mi south of Pleasanton.	405	1912-30 1969-85	3-1-84* 4-19-84* 4-26-85 9-25-85	32.9 74.0 21.8 3.54
11177200a	Valicitos Creek near Sunol, CA	Lat 37°35'42", long 121°52'51", in Valle de San Jose Grant, Alameda County, Hydrologic Unit 18050004, on right bank at culvert on Sunol Road, 700 ft upstream from mouth, and 0.3 mi east of Sunol.	7.48	1975-76 1977-85	10-30-84 12-19-84 2-1-85 4-26-85 5-31-85 7-11-85 8-22-85 9-26-85	0.14 0.70 0.56 0.46 17.6 42.9 47.2 33.6
		Klamath River basin				
11525520	Deadwood Creek at Lewiston, CA	Lat 40°43'02", long 122°48'04", in SW¼NW¼ sec.17, T.33 N., R.8 W., Trinity County, Hydrologic Unit 18010211, 300 ft upstream from mouth and 0.7 mi northeast of Lewiston.	9.10	1965-75 1976-85	2-4-85 4-30-85 8-6-85 8-28-85	3.36 3.16 0 0

a Water-quality data for current year published in this report.
* Not previously published.

Discharge measurements in the following table were made at miscellaneous sites throughout the area included in this volume.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1982
(NOT PREVIOUSLY PUBLISHED)

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft³/s)
		San Lorenzo Creek basin				
Cull Creek Tributary No. 4	Cull Creek	Lat 37°45'02", long 122°03'21" in San Lorenzo (Castro) Grant, Alameda County, on Cull Canyon Road, 3.2 mi upstream from Cull Creek Dam, 50 ft from culvert under Cull Canyon Road on left bank.	0.45	1979-85	12-29-81	11.0
					12-29-81	26.1
					12-29-81	18.4
					12-29-81	37.0
					1-4-82	39.0
					1-5-82	10.5
					1-5-82	6.89
					1-7-82	2.06
					1-20-82	4.18
					2-2-82	6.51
					2-17-82	3.14
					3-2-82	7.35
					3-18-82	0.78
					3-31-82	17.7
					3-31-82	23.2
					3-31-82	26.6
					3-31-82	21.1
					4-1-82	4.92
					4-2-82	3.17

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1983
(NOT PREVIOUSLY PUBLISHED)

					11-18-82	3.51
					11-18-82	0.56
					11-30-82	0.84
					12-21-82	0.82
					12-21-92	22.8
					12-21-82	24.2
					12-22-82	5.72
					12-22-82	8.84
					12-22-82	10.1
					1-22-83	9.01
					1-22-83	12.6
					1-22-83	3.87
					1-22-83	18.0
					1-27-83	5.91
					2-7-83	10.1
					2-7-83	43.2
					2-25-83	16.3
					2-25-83	17.1
					2-28-83	6.22
					2-28-83	10.9
					3-2-83	39.1
					3-2-83	28.5
					3-22-83	11.2
					3-22-83	13.2
					3-24-83	6.92
					3-24-83	9.71
					3-24-83	9.60

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1984
(NOT PREVIOUSLY PUBLISHED)

					11-17-83	1.72
					12-9-83	1.03
					12-9-83	3.39
					12-9-83	3.29
					12-9-83	3.96
					12-9-83	3.14
					12-11-83	11.1
					12-11-83	4.93
					12-11-83	4.71

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1985

					2-8-84	15.8
					2-8-84	8.03

DISCHARGE MEASUREMENTS MADE AT PARTIAL-RECORD SITES DURING WATER YEAR 1984
(NOT PREVIOUSLY PUBLISHED)

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Whitehouse Creek Basin				
Whitehouse Creek		Lat 37°08'58", long 122°20'40", in Punta del Ano Nuevo Grant, San Mateo County, Hydrologic Unit 18060001, on upstream side of culvert at Highway 1, 0.3 mi from mouth, 7.5 mi southeast of town of Pescadero.	4.05	1982-83	12-16-83	8.25
					1-24-84	4.16
					2-29-84	2.74
					4-04-84	1.81a
					5-10-84	.88a
					6-21-84	.19a
					7-31-84	.29a
					9-12-84	.04a
		Gazos Creek Basin				
Gazos Creek		Lat 37°15'14", long 122°21'53", in Punta del Ano Nuevo Grant, San Mateo County, Hydrologic Unit 18060001, on right bank 1.7 mi upstream from Highway 1 bridge, and 5.6 mi southeast of town of Pescadero.	11.0	1982-83	12-16-83	27.3
					1-24-84	11.3
					2-29-84	7.64
					4-04-84	6.26a
					5-10-84	4.00a
					6-21-84	2.57a
					7-31-84	1.63a
					9-12-84	1.26a
		Pescadero Creek Basin				
Honsinger Creek	Pescadero Creek	Lat 37°15'14", long 122°21'53", in SW1/4 NE1/4 sec.11 T.8S., R.5 W., San Mateo County, Hydrologic Unit 18050001, on left bank at upstream side of culvert, 0.4 mi upstream from Pescadero Creek, and 0.9 mi east of town of Pescadero.	2.55	1982-83	12-16-83	3.26
					1-24-84	.95
					2-29-84	1.09
					4-04-84	.68a
					5-10-84	.31a
					6-21-84	.16a
					7-31-84	.08a
					9-12-84	.02a
Bradley Creek	Pescadero Creek	Lat 37°16'44", long 122°22'46", on eastern boundary of San Antonio or Pescadero Grant, San Mateo County, Hydrologic Unit 18050001, on left bank of Stage Road, 1.8 mi upstream from Pescadero Creek, and 1.7 mi northeast of town of Pescadero.	2.27	1982-83	10-19-83	.01
					1-24-84	.53
					2-29-84	.58
					4-04-84	.32a
					5-10-84	.12a
					6-21-84	.03a

DISCHARGE MEASUREMENTS MADE AT PARTIAL-RECORD SITES DURING WATER YEAR 1985

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Pomponio Creek Basin				
Pomponio Creek		Lat 37°18'12", long 122°22'44", in San Antonio or Pescadero Grant, San Mateo County, Hydrologic Unit 18050006, at bridge culvert at intersection of Stage Road and Pomponio Road 2.3 miles south of San Gregorio.			11-19-84	4.25
					1-08-85	1.78
					2-05-85	.72a
					3-14-85	7.41
					4-12-85	2.05a
					5-20-85	.37a
					7-19-85	.08a
					8-28-85	.07a
		San Gregorio Creek Basin				
La Honda Creek	San Gregorio Creek	Lat 37°19'09", long 122°16'21", in SE1/4 SW1/4 sec 14, T.7 S., R.4 W., San Mateo County, Hydrologic Unit 18050006, at bridge on Entrada Way 500 feet east of intersection with La Honda Road at La Honda.			11-19-84	5.36
					1-08-85	4.96
					2-05-85	2.32a
					3-14-85	5.71
					4-12-85	4.40a
					5-21-85	1.78a
					7-19-85	.58a
					8-28-85	.36a
Alpine Creek	San Gregorio Creek	Lat 37°17'58", long 122°15'48", in NW1/4 NE1/4 sec 26, T.7 S., R.4 W., San Mateo County, Hydrologic Unit 18050006, at upstream bridge at intersection of Alpine Road and Pescadero Road, 1.5 miles southeast of La Honda.			11-19-84	3.48
					1-08-85	3.13
					2-05-85	1.97a
					3-14-85	5.66
					4-12-85	3.70a
					5-21-85	1.60a
					7-19-85	.87a
					8-28-85	.53a
		Tunitas Creek Basin				
Tunitas Creek		Lat 37°21'26", long 122°23'46", in San Gregorio Grant, San Mateo County, Hydrologic Unit 18050006, at bridge crossing on State Highway 1, 2.5 miles north of San Gregorio.			11-19-84	5.94
					1-08-85	3.70
					2-05-85	1.49a
					3-14-85	5.61
					4-12-85	3.28a
					5-20-85	.72a
					7-19-85	.21a
					8-28-85	.10a

a Base flow.

Discharge measurements in the following table were made at miscellaneous sites throughout the area included in this volume.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1985

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
Bradley Creek	Pescadero Creek	Lat 37°16'44", long 122°22'46", on eastern boundary of San Antonio or Pescadero Grant, San Mateo County on left bank of Stage Road, 1.8 mi upstream from Pescadero Creek, and 1.7 mi north of Pescadero.	2.27		12-15-83	2.72
					12-23-82	11.6
					3-29-83	1.70
					5-24-83	0.50a
					7-7-83	0.24a
					7-16-83	0.04a
Honsinger Creek	Pescadero Creek	Lat 37°15"14", long 122°21'53", in SW¼NE¼ sec.11, T.8 S., R.5 W., San Mateo County, on left bank at upstream side of culvert, 0.4 mi upstream from Pescadero Creek, and 0.9 mi east of town of Pescadero.	2.55		9-24-82	0.14a
					11-29-82	6.27
					3-4-83	25.3
					3-29-83	7.99
					5-24-83	1.20a
					7-7-83	0.64a
Gazos Creek		Lat 37°10'41", long 122°21'05", in Punta del Año Nuevo Grant, San Mateo County, on right bank 1.7 mi upstream from Highway 1 bridge, and 5.6 mi southeast of town of Pescadero.	11.0		9-24-82	2.02a
					12-23-82	100
					3-29-83	92.7
					5-24-83	15.7a
		Whitehouse Creek basin				
Whitehouse Creek		Lat 37°08'58", long 122°20'40", in Punta del Año Grant, San Mateo County, on upstream side of culvert at Highway 1, 0.3 mi from mouth, and 7.5 mi southeast of town of Pescadero.	4.05		9-24-82	0.55a
					12-23-82	18.3
					3-29-83	33.1
					5-24-83	5.46a
					7-7-83	1.69a

a Base flow.

Water-quality partial-record stations are particular sites where chemical-quality, biological and/or sediment data are collected systematically over a period of years for use in hydrologic analyses. These data are collected usually less than quarterly. Samples collected at sites other than gaging stations and partial-record stations to give better areal coverage in a river basin are referred to as miscellaneous sites.

PAJARO RIVER BASIN

11153500 LLAGAS CREEK NEAR MORGAN HILL, CA

LOCATION.--Lat 37°06'52", long 121°41'22", in Las Uvas Grant, Santa Clara County, Hydrologic Unit 18060002, 500 ft upstream from Llagas Avenue bridge, 0.3 mi downstream from Chesbro Dam, 0.3 mi upstream from small left bank tributary, and 2.3 mi west of Morgan Hill.
DRAINAGE AREA.--19.6 mi².
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1979 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
JAN									
16...	1200	.90	419	8.4	8.0	760	12	11.3	96
30...	1100	.90	409	8.3	8.0	760	5.5	11.9	101
FEB									
10...	0930	1.1	402	8.0	8.0	765	15	10.9	92
MAR									
11...	1400	1.1	408	8.2	11.5	750	8.1	12.6	118
JUN									
14...	1230	23	409	8.2	15.5	750	15	10.2	104
JUL									
25...	1130	23	437	8.1	22.0	750	.80	7.7	90
SEP									
12...	1315	3.6	470	8.4	20.0	755	2.7	8.6	96

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
JAN										
16...	210	17	39	28	11	10	.3	1.3	196	21
30...	210	0	39	28	11	10	.3	1.0	213	22
FEB										
10...	210	27	37	29	11	10	.3	1.0	185	21
MAR										
11...	210	23	37	28	12	11	.4	1.1	185	23
JUN										
14...	200	14	37	26	11	11	.3	1.3	186	19
JUL										
25...	220	17	40	29	12	11	.4	1.5	203	21
SEP										
12...	240	23	43	33	14	11	.4	1.6	221	23

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
JAN										
16...	11	.10	16	250	.33	.60	.20	.20	.040	.030
30...	10	.10	16	260	.35	.62	.20	.21	.030	.030
FEB										
10...	11	.10	16	240	.32	.70	.20	.18	.010	.010
MAR										
11...	11	.10	15	240	.32	.71	.20	.19	.060	.050
JUN										
14...	10	.10	14	230	.31	14	<.10	<.10	.130	.120
JUL										
25...	11	.10	13	250	.34	15	<.10	<.10	.070	.060
SEP										
12...	12	.20	14	270	.37	2.7	<.10	<.10	.060	.060

See footnotes at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

PAJARO RIVER BASIN--Continued

11153500 LLAGAS CREEK NEAR MORGAN HILL, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)
JAN									
16...	.36	.27	.40	.30	.60	.020	<.010	3.5	.40
30...	.67	--	.70	--	.90	.030	<.010	20	.30
FEB									
10...	.69	.49	.70	.50	.90	<.010	<.010	--	--
MAR									
11...	.44	.55	.50	.60	.70	.030	<.010	--	--
JUN									
14...	.37	.38	.50	.50	--	.080	.020	--	--
JUL									
25...	.43	.34	.50	.40	--	.040	.010	--	--
SEP									
12...	.54	.44	.60	.50	--	.050	.030	--	--

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ALUMINUM, RECOV. FM BOTTOM MATERIAL (UG/G)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)
JAN								
16...	1200	--	--	--	--	180	--	--
30...	1100	--	--	--	--	180	--	--
FEB								
10...	0930	10	22000	1	2	170	<1	<1
MAR								
11...	1400	--	--	--	--	170	--	--
JUN								
14...	1230	--	--	--	--	190	--	--
JUL								
25...	1130	--	--	--	--	120	--	--
SEP								
12...	1315	<10	12000	2	5	230	1	<1

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)
JAN									
16...	--	--	--	--	--	15	--	--	--
30...	--	--	--	--	--	6	--	--	--
FEB									
10...	<10	210	40	2	38	13	45000	<1	30
MAR									
11...	--	--	--	--	--	14	--	--	--
JUN									
14...	--	--	--	--	--	12	--	--	--
JUL									
25...	--	--	--	--	--	7	--	--	--
SEP									
12...	--	2100	40	<1	35	<3	23000	1	<10

DATE	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
JAN								
16...	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--
FEB								
10...	23	1100	<.1	.08	<100	<1	<3	70
MAR								
11...	--	--	--	--	--	--	--	--
JUN								
14...	--	--	--	--	--	--	--	--
JUL								
25...	--	--	--	--	--	--	--	--
SEP								
12...	30	3100	<.1	.10	<100	<1	<10	60

See footnotes at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

PAJARO RIVER BASIN--Continued

11153500 LLAGAS CREEK NEAR MORGAN HILL, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	NAPH-THA-LENES, POLY-CHLOR. TOTAL (UG/L)	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR-DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI-ELDRIN TOTAL (UG/L)
FEB									
10...	0930	<.10	<.1	<.010	<.1	<.010	<.010	<.010	<.010
SEP									
12...	1315	<.10	<.1	<.010	<.1	<.010	<.010	<.010	<.010

DATE	DI-AZINON, TOTAL (UG/L)	ENDO-SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA-CHLOR, TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA-THION, TOTAL (UG/L)	METH-OXY-CHLOR, TOTAL (UG/L)	METHYL PARA-THION, TOTAL (UG/L)
FEB										
10...	<.01	<.010	<.010	<.01	<.010	<.010	.010	<.01	<.01	<.01
SEP										
12...	<.01	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01	<.01

DATE	METHYL TRI-THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA-THION, TOTAL (UG/L)	PER-THANE TOTAL (UG/L)	TOX-APHENE, TOTAL (UG/L)	TOTAL TRI-THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
FEB									
10...	<.01	<.01	<.01	<.1	<1	<.01	<.01	<.01	<.01
SEP									
12...	<.01	<.01	<.01	<.1	<1	<.01	<.01	<.01	<.01

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	COLI-FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, (COLS. PER 100 ML)
MAR						
12...	0945	1.1	11.0	75	50	30
19...	0915	1.1	11.0	340	120	13
26...	0920	1.1	10.0	170	24	10
APR						
02...	0910	1.2	12.0	217	140	37
09...	0940	1.2	12.0	450	210	35

< Actual value is known to be less than the value shown.

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	BED MAT. FALL DIAM. % FINER THAN .002 MM	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .008 MM	BED MAT. FALL DIAM. % FINER THAN .016 MM
FEB							
10...	0930	1.1	8.0	--	2	--	--
SEP							
12...	1315	3.6	20.0	2	2	3	3

DATE	BED MAT. FALL DIAM. % FINER THAN .031 MM	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
FEB							
10...	--	7	10	18	47	86	100
SEP							
12...	3	3	6	18	55	84	100

11153530 LLAGAS CREEK AT MACHADO SCHOOL, NEAR MORGAN HILL, CA

LOCATION.--Lat 37°05'23", long 121°39'38", in San Francisco de Las Llagas Grant, Santa Clara County, Hydrologic Unit 18060002, on left bank at Machado School, 125 ft upstream from Sycamore Avenue bridge, 1,300 ft downstream from small right bank tributary, and 2.8 mi south of Morgan Hill.
DRAINAGE AREA.--24.1 mi².
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
JAN									
16...	1045	.50	464	7.6	9.0	760	.80	11.8	102
30...	0930	1.2	453	7.7	9.0	760	.50	10.5	91
FEB									
10...	0830	4.1	484	7.8	9.0	760	2.4	9.9	86
MAR									
11...	1315	3.0	472	7.6	13.0	750	1.3	11.1	107
JUN									
14...	1130	26	408	8.2	16.0	750	9.2	9.0	93
JUL									
25...	1030	26	439	8.2	20.0	750	7.8	8.2	92
SEP									
12...	1215	3.4	475	8.2	17.0	760	.90	10.0	104

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
JAN										
16...	230	16	41	32	12	10	.3	.90	218	19
30...	240	22	42	33	12	10	.3	.70	219	22
FEB										
10...	250	39	43	35	14	11	.4	.80	213	22
MAR										
11...	240	22	41	33	13	11	.4	.70	216	22
JUN										
14...	200	16	38	26	11	11	.3	1.2	186	20
JUL										
25...	220	15	40	29	12	11	.4	1.4	205	21
SEP										
12...	250	27	43	34	14	11	.4	1.3	221	25

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
JAN										
16...	12	.10	23	270	.37	.37	.60	.62	<.010	<.010
30...	13	.10	24	280	.38	.90	.60	.60	<.010	<.010
FEB										
10...	16	.10	27	290	.39	3.2	1.8	1.8	.010	--
MAR										
11...	13	.10	23	280	.37	2.2	1.0	.97	.030	<.010
JUN										
14...	10	.10	15	230	.32	16	<.10	.10	.060	.040
JUL										
25...	11	.10	14	250	.34	18	<.10	<.10	.030	.040
SEP										
12...	12	.10	18	280	.38	2.6	.20	.20	.050	.040

See footnotes at end of table.

11153530 LLAGAS CREEK AT MACHADO SCHOOL, NEAR MORGAN HILL, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
JAN								
16...	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--
FEB								
10...	6	980	<.1	.04	<100	<1	4	70
MAR								
11...	--	--	--	--	--	--	--	--
JUN								
14...	--	--	--	--	--	--	--	--
JUL								
25...	--	--	--	--	--	--	--	--
SEP								
12...	10	1600	<.1	.09	<100	<1	<10	90

DATE	TIME	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLORDANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)
FEB									
10...	0830	<.10	<.1	<.010	<.1	<.010	<.010	<.010	<.010
SEP									
12...	1215	<.10	<.1	<.010	<.1	<.010	<.010	<.010	<.010

DATE	DIAZINON, TOTAL (UG/L)	ENDOSULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALATHION, TOTAL (UG/L)	METHOXYCHLOR, TOTAL (UG/L)	METHYL PARATHION, TOTAL (UG/L)
FEB										
10...	<.01	<.010	<.010	<.01	<.010	<.010	.010	<.01	<.01	<.01
SEP										
12...	<.01	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01	<.01

DATE	METHYL TRITHION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARATHION, TOTAL (UG/L)	PERTHANE TOTAL (UG/L)	TOXAPHENE, TOTAL (UG/L)	TOTAL TRITHION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
FEB									
10...	<.01	<.01	<.01	<.1	<1	<.01	<.01	<.01	<.01
SEP									
12...	<.01	<.01	<.01	<.1	<1	<.01	<.01	<.01	<.01

DATE	TIME	TEMPERATURE (DEG C)	COLIFORM, TOTAL, IMMED. MEM.FIL (COLS./100 ML)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, (COLS. PER 100 ML)
MAR					
12...	0930	13.0	550	280	110
19...	0905	13.0	420	130	50
26...	0915	10.0	730	680	60
APR					
02...	0900	15.0	560	100	62
09...	0930	14.0	1300	320	130

< Actual value is known to be less than the value shown.

11153530 LLAGAS CREEK AT MACHADO SCHOOL, NEAR MORGAN HILL, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	BED MAT. FALL DIAM. % FINER THAN .002 MM	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .008 MM	BED MAT. FALL DIAM. % FINER THAN .016 MM
FEB							
10...	0830	4.1	9.0	--	--	--	--
SEP							
12...	1215	3.4	17.0	1	1	1	2

DATE	BED MAT. FALL DIAM. % FINER THAN .031 MM	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
FEB							
10...	--	1	3	1	9	56	100
SEP							
12...	2	2	3	8	30	66	--

11153555 LLAGAS CREEK AT SAN MARTIN, CA

LOCATION.--Lat 37°05'13", long 121°36'15", in San Francisco de Las Llagas Grant, Santa Clara County, Hydrologic Unit 18060002, at bridge on San Martin Avenue, 0.3 mi east of San Martin.
DRAINAGE AREA.--28.2 mi².
CHEMICAL ANALYSES: Water years 1979 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
FEB									
09...	1445	8.5	271	7.8	12.0	760	50	9.8	91
MAR									
11...	1230	1.1	385	8.3	14.0	760	5.5	12.6	123
JUN									
14...	1000	21	415	8.2	18.0	755	4.5	9.3	99
JUL									
25...	0930	19	437	8.2	21.0	755	2.6	8.2	93
SEP									
12...	1015	15	373	8.2	18.5	760	1.4	8.8	94

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY FIELD (MG/L AS CACO3)
FEB									
09...	120	15	21	16	8.4	13	.3	1.8	103
MAR									
11...	190	25	33	26	13	13	.4	1.2	165
JUN									
14...	210	18	38	27	12	11	.4	1.2	188
JUL									
25...	220	21	40	30	13	11	.4	1.3	203
SEP									
12...	180	20	36	21	12	13	.4	1.3	157

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)
FEB									
09...	18	11	<.10	15	150	.21	3.5	.90	1.0
MAR									
11...	21	14	.10	16	220	.30	.66	.80	.75
JUN									
14...	20	11	.10	15	240	.32	13	<.10	<.10
JUL									
25...	20	11	.10	14	250	.34	13	<.10	<.10
SEP									
12...	30	8.9	.10	13	220	.29	8.8	<.10	<.10

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
FEB									
09...	.040	.020	1.7	.98	1.7	1.0	2.6	.200	.080
MAR									
11...	.040	<.010	.56	--	.60	.60	1.4	.040	.010
JUN									
14...	.060	.050	.44	.25	.50	.30	--	.040	.020
JUL									
25...	.040	.040	.46	.36	.50	.40	--	.020	.030
SEP									
12...	.040	.020	.36	.28	.40	.30	--	.020	.010

See footnotes at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

PAJARO RIVER BASIN--Continued

11153555 LLAGAS CREEK AT SAN MARTIN, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ALUMINUM, RECOV. FM BOTTOM MATERIAL (UG/G)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)
FEB								
09...	1445	100	14000	<1	3	70	<1	<1
MAR								
11...	1230	--	--	--	--	100	--	--
JUN								
14...	1000	--	--	--	--	170	--	--
JUL								
25...	0930	--	--	--	--	120	--	--
SEP								
12...	1015	10	14000	1	7	110	1	1

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)
FEB									
09...	<10	100	20	2	30	150	30000	<1	40
MAR									
11...	--	--	--	--	--	45	--	--	--
JUN									
14...	--	--	--	--	--	4	--	--	--
JUL									
25...	--	--	--	--	--	9	--	--	--
SEP									
12...	--	860	30	<1	79	8	26000	1	280

DATE	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
FEB								
09...	12	770	<.1	.07	<100	<1	53	60
MAR								
11...	--	--	--	--	--	--	--	--
JUN								
14...	--	--	--	--	--	--	--	--
JUL								
25...	--	--	--	--	--	--	--	--
SEP								
12...	20	1400	<.1	.01	<100	<1	<10	90

DATE	TIME	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLORDANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)
FEB									
09...	1445	<.10	<.1	<.010	<.1	<.010	<.010	<.010	<.010
SEP									
12...	1015	<.10	<.1	<.010	<.1	<.010	<.010	<.010	<.010

DATE	DIAZINON, TOTAL (UG/L)	ENDOSULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALATHION, TOTAL (UG/L)	METHOXYCHLOR, TOTAL (UG/L)	METHYL PARATHION, TOTAL (UG/L)
FEB										
09...	.02	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01	<.01
SEP										
12...	<.01	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01	<.01

< Actual value is known to be less than the value shown.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

PAJARO RIVER BASIN--Continued

11153555 LLAGAS CREEK AT SAN MARTIN, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	METHYL TRI-THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA-THION, TOTAL (UG/L)	PER-THANE TOTAL (UG/L)	TOX-APHENE, TOTAL (UG/L)	TOTAL TRI-THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
FEB									
09...	<.01	<.01	<.01	<.1	<1	<.01	.09	<.01	<.01
SEP									
12...	<.01	<.01	<.01	<.1	<1	<.01	<.01	<.01	<.01

DATE	TIME	TEMPER-ATURE (DEG C)	COLI-FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, (COLS. PER 100 ML)
MAR					
12...	0915	12.0	500	60	130
19...	0850	13.0	1900	240	150
APR					
02...	0845	16.0	2760	1300	800

< Actual value is known to be less than the value shown.

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	BED MAT. FALL DIAM. % FINER THAN .002 MM	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .008 MM	BED MAT. FALL DIAM. % FINER THAN .016 MM
FEB							
09...	1445	8.5	12.0	2	2	3	3
SEP							
12...	1015	15	18.5	1	2	2	2

DATE	BED MAT. FALL DIAM. % FINER THAN .031 MM	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
FEB							
09...	4	4	5	12	37	66	100
SEP							
12...	2	3	3	9	37	73	100

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

GUADALUPE RIVER BASIN

11166900 ALAMITOS CREEK NEAR NEW ALMADEN, CA

WATER-QUALITY RECORDS

LOCATION.--Lat 37°13'21", long 121°51'00", in Pueblo Lands of San Jose Grant, Santa Clara County, on right bank at Greystone bridge, 1.1 mi downstream from Arroyo Calero, 3.4 mi southwest of Edenvale, and 3.5 mi northwest of New Almaden.
DRAINAGE AREA.--31.8 mi².
PERIOD OF RECORD.--
CHEMICAL ANALYSES: October 1984 to September 1985.
SEDIMENT RECORDS: October 1984 to September 1985.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
JAN									
15...	1400	.60	697	8.3	10.0	760	.50	14.8	132
29...	1145	.50	677	8.2	11.0	760	.70	10.8	98
FEB									
08...	1545	--	432	8.1	11.5	760	70	10.2	94
MAR									
11...	1015	2.7	609	8.0	13.0	760	7.8	9.4	90
JUN									
13...	1130	4.5	517	8.3	18.5	755	.80	11.9	128
JUL									
24...	1130	3.5	552	8.2	21.0	750	1.8	10.9	125
SEP									
11...	1330	3.8	550	8.5	18.5	760	1.7	12.8	137

DATE	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY FIELD (MG/L AS CACO3)
JAN										
15...	13	350	52	44	58	22	12	.5	1.0	297
29...	30	330	54	44	53	23	13	.6	1.0	274
FEB										
08...	52	190	47	25	31	16	15	.5	4.6	143
MAR										
11...	<10	290	51	39	47	23	15	.6	1.3	240
JUN										
13...	<10	270	20	39	42	17	12	.5	1.3	251
JUL										
24...	22	280	21	40	43	18	12	.5	1.4	256
SEP										
11...	<10	260	4	40	40	18	13	.5	1.3	261

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)
JAN										
15...	37	39	.20	24	400	.55	.65	2.2	2.1	<.010
29...	36	39	.20	25	390	.52	.52	2.2	2.2	.010
FEB										
08...	46	22	.10	16	250	.34	--	2.4	2.3	.170
MAR										
11...	39	32	.10	22	350	.47	2.5	1.9	1.9	.050
JUN										
13...	20	14	.10	23	310	.42	3.7	.40	.34	.050
JUL										
24...	25	14	.10	24	320	.43	3.0	.50	.53	.030
SEP										
11...	25	17	.20	22	320	.44	3.3	.50	.46	.060

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

GUADALUPE RIVER BASIN--Continued

11166900 ALAMITOS CREEK NEAR NEW ALMADEN, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)
JAN										
15...	<.010	--	--	.40	.30	2.6	.020	.020	1.1	.10
29...	.010	.49	.29	.50	.30	2.7	.020	.010	4.1	.20
FEB										
08...	.160	2.1	1.6	2.3	1.8	4.7	.370	.220	--	--
MAR										
11...	<.010	.90	--	.95	.85	2.9	.050	.030	--	--
JUN										
13...	.030	.25	.27	.30	.30	.70	.020	.010	--	--
JUL										
24...	.030	.27	.17	.30	.40	.80	.020	.030	--	--
SEP										
11...	.050	.24	.25	.30	.30	.80	.030	.020	--	--

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ALUMINUM, RECOV. FM BOTTOM MATERIAL (UG/G)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)
JAN								
15...	1400	--	--	--	--	140	--	--
29...	1145	--	--	--	--	130	--	--
FEB								
08...	1545	70	12000	1	11	120	<1	<1
MAR								
11...	1015	--	--	--	--	130	--	--
JUN								
13...	1130	--	--	--	--	150	--	--
JUL								
24...	1130	--	--	--	--	130	--	--
SEP								
11...	1330	20	3900	2	13	180	1	<1

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)
JAN									
15...	--	--	--	--	--	4	--	--	--
29...	--	--	--	--	--	<3	--	--	--
FEB									
08...	<10	150	30	3	22	150	24000	<1	50
MAR									
11...	--	--	--	--	--	14	--	--	--
JUN									
13...	--	--	--	--	--	<3	--	--	--
JUL									
24...	--	--	--	--	--	7	--	--	--
SEP									
11...	--	1700	30	<1	88	8	32000	<1	10

See footnotes at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

GUADALUPE RIVER BASIN--Continued

11166900 ALAMITOS CREEK NEAR NEW ALMADEN, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
JAN								
15...	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--
FEB								
08...	14	520	<.1	1.5	<100	<1	6	60
MAR								
11...	--	--	--	--	--	--	--	--
JUN								
13...	--	--	--	--	--	--	--	--
JUL								
24...	--	--	--	--	--	--	--	--
SEP								
11...	<10	620	<.1	57	<100	<1	<10	100

DATE	TIME	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLORDANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)
FEB									
08...	1545	<.10	<.1	<.010	<.1	<.010	<.010	<.010	<.010
SEP									
11...	1330	<.10	<.1	<.010	<.1	<.010	<.010	<.010	<.010

DATE	DIAZINON, TOTAL (UG/L)	ENDOSULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALATHION, TOTAL (UG/L)	METHOXYCHLOR, TOTAL (UG/L)	METHYL PARATHION, TOTAL (UG/L)
FEB										
08...	.05	<.010	<.010	.03	<.010	<.010	.010	<.01	<.01	<.01
SEP										
11...	<.01	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01	<.01

DATE	METHYL TRITHION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARATHION, TOTAL (UG/L)	PERTHANE TOTAL (UG/L)	TOXAPHENE, TOTAL (UG/L)	TOTAL TRITHION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
FEB									
08...	<.01	<.01	<.01	<.1	<1	<.01	.08	<.01	.03
SEP									
11...	<.01	<.01	<.01	<.1	<1	<.01	<.01	<.01	<.01

< Actual value is known to be less than the value shown.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

GUADALUPE RIVER BASIN--Continued

11166900 ALAMITOS CREEK NEAR NEW ALMADEN, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	BED MAT. FALL DIAM. % FINER THAN .002 MM	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .008 MM	BED MAT. FALL DIAM. % FINER THAN .016 MM
FEB							
08...	1545	--	11.5	1	1	2	2
SEP							
11...	1330	3.8	18.5	1	1	1	1

DATE	BED MAT. FALL DIAM. % FINER THAN .031 MM	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
FEB							
08...	3	5	7	14	47	81	100
SEP							
11...	1	2	3	5	22	63	100

GUADALUPE RIVER BASIN--Continued

11167500 GUADALUPE CREEK AT GUADALUPE, CA

LOCATION.--Lat 37°13'02", long 121°54'35", in SW¼ sec.19, T.8 S, R.1 E., Santa Clara County, Hydrologic Unit 18050003, on left bank 0.1 mi downstream from small left-bank tributary, 0.5 mi northwest of Guadalupe.
DRAINAGE AREA.--12.8 mi².
REMARKS.--Multi-date sample was collected by automatic sampler and composited.
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
JAN									
15...	1300	1.1	632	8.3	9.5	760	.40	12.2	107
29...	1045	1.1	636	8.5	7.5	760	.40	12.8	107
FEB									
08...	1330	45	267	8.2	9.5	755	65	11.0	97
MAR									
11...	1100	5.6	418	8.3	11.0	755	5.8	11.4	104
JUN									
13...	1015	12	390	8.4	13.0	750	6.4	8.8	85
JUL									
24...	1045	3.4	494	8.4	19.5	750	4.1	9.4	104
SEP									
11...	1200	1.8	616	8.6	15.0	755	1.0	10.0	100

DATE	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY FIELD (MG/L AS CACO3)
JAN										
15...	17	320	58	54	44	25	15	.6	1.3	258
29...	21	310	49	55	43	23	14	.6	1.2	266
FEB										
08...	46	120	15	22	16	9.9	15	.4	1.4	106
MAR										
11...	<10	200	24	38	26	15	14	.5	1.2	178
JUN										
13...	10	200	17	39	24	15	14	.5	1.2	179
JUL										
24...	21	240	8	45	31	19	15	.5	1.3	232
SEP										
11...	<10	300	3	55	40	25	15	.6	1.5	299

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)
JAN										
15...	72	18	.20	16	390	.52	1.1	<.10	<.10	<.010
29...	74	18	.20	15	390	.53	1.2	<.10	<.10	.010
FEB										
08...	22	9.0	.10	15	160	.22	19	1.0	.99	.040
MAR										
11...	33	11	.10	17	250	.34	3.8	.30	.25	.020
JUN										
13...	23	10	.10	14	230	.32	7.6	.10	.14	.060
JUL										
24...	29	13	.10	16	290	.40	2.7	<.10	<.10	.050
SEP										
11...	35	17	.20	14	370	.50	1.8	<.10	<.10	.040

See footnotes at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

GUADALUPE RIVER BASIN--Continued

11167500 GUADALUPE CREEK AT GUADALUPE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)
JAN										
15...	<.010	--	--	.20	<.20	--	.010	.010	1.1	.10
29...	.010	.19	.29	.20	.30	--	.030	.010	3.0	.20
FEB										
08...	.020	1.6	.78	1.6	.80	2.6	.180	.050	--	--
MAR										
11...	.010	.28	.29	.30	.30	.60	.040	.020	--	--
JUN										
13...	.030	.24	.27	.30	.30	.40	.020	<.010	--	--
JUL										
24...	.030	.35	.27	.40	.30	--	.010	.010	--	--
SEP										
11...	.020	.26	.38	.30	.40	--	.020	.010	--	--

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ALUMINUM, RECOV. FM BOTTOM MATERIAL (UG/G)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)
JAN								
15...	1300	--	--	--	--	290	--	--
29...	1045	--	--	--	--	280	--	--
FEB								
08...	1330	140	20000	<1	7	60	<1	<1
MAR								
11...	1100	--	--	--	--	90	--	--
JUN								
13...	1015	--	--	--	--	240	--	--
JUL								
24...	1045	--	--	--	--	230	--	--
SEP								
11...	1200	20	11000	2	9	540	<1	<1

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)
JAN									
15...	--	--	--	--	--	10	--	--	--
29...	--	--	--	--	--	10	--	--	--
FEB									
08...	<10	150	40	3	35	120	37000	1	50
MAR									
11...	--	--	--	--	--	39	--	--	--
JUN									
13...	--	--	--	--	--	33	--	--	--
JUL									
24...	--	--	--	--	--	7	--	--	--
SEP									
11...	--	1100	30	<1	40	3	21000	1	<10

DATE	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
JAN								
15...	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--
FEB								
08...	12	890	<.1	.60	<100	<1	--	70
MAR								
11...	--	--	--	--	--	--	--	--
JUN								
13...	--	--	--	--	--	--	--	--
JUL								
24...	--	--	--	--	--	--	--	--
SEP								
11...	<10	700	<.1	3.8	<100	<1	<10	60

See footnotes at end of table.

11167500 GUADALUPE CREEK AT GUADALUPE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLORDANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)
FEB									
08...	1330	<.10	<.1	<.010	<.1	<.010	<.010	<.010	<.010
SEP									
11...	1200	<.10	<.1	<.010	<.1	<.010	<.010	<.010	<.010

DATE	DIAZINON, TOTAL (UG/L)	ENDOSULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALATHION, TOTAL (UG/L)	METHOXYCHLOR, TOTAL (UG/L)	METHYL PARATHION, TOTAL (UG/L)
FEB										
08...	<.01	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01	<.01
SEP										
11...	<.01	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01	<.01

DATE	METHYL TRITHION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARATHION, TOTAL (UG/L)	PERTHANE TOTAL (UG/L)	TOXAPHENE, TOTAL (UG/L)	TOTAL TRITHION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
FEB									
08...	0.01	0.01	0.01	0.1	01	0.01	.02	0.01	0.01
SEP									
11...	<.01	<.01	<.01	<.1	<1	<.01	<.01	<.01	<.01

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	COLIFORM, TOTAL, IMMED. MEM.FIL (COLS./100 ML)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, (COLS. PER 100 ML)
MAR						
12...	1020	4.1	11.0	1300	90	90
19...	0950	2.3	10.0	260	70	60
26...	0955	5.1	7.0	1100	800	20
APR						
02...	0945	2.9	12.0	450	200	55
09...	1015	2.0	13.0	1200	150	60

< Actual value is known to be less than the value shown.

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	BED MAT. FALL DIAM. % FINER THAN .002 MM	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .008 MM	BED MAT. FALL DIAM. % FINER THAN .016 MM
FEB							
08...	1330	45	9.5	--	--	--	--
SEP							
11...	1200	1.8	15.0	2	2	2	3

DATE	BED MAT. FALL DIAM. % FINER THAN .031 MM	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
FEB							
08...	--	1	2	8	28	66	100
SEP							
11...	3	6	11	24	48	76	100

11167572 GUADALUPE RIVER AT ALAMITOS RECHARGE FACILITY, AT SAN JOSE, CA

LOCATION.--Lat 37°14'51", long 121°52'08", in San Juan Bautista Grant, Santa Clara County, Hydrologic Unit 18050003, at south city limits of San Jose, 0.2 mi downstream from confluence at Alamitos and Guadalupe creeks.
DRAINAGE AREA.--53.0 mi².
REMARKS.--Multi-date sample was collected by automatic sampler and composited.
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1979 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
JAN									
15...	1515	14	462	7.9	10.0	760	3.0	11.7	104
29...	1315	7.2	466	8.3	11.0	760	2.3	13.0	118
FEB									
09...	1030	40	428	7.9	10.0	765	39	9.4	83
MAR									
11...	0920	14	477	8.0	13.0	760	12	9.6	91
JUN									
13...	1300	11	583	8.4	25.0	755	1.5	9.8	120
SEP									
11...	1500	5.8	612	8.4	21.5	760	1.3	10.7	122

DATE	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY FIELD (MG/L AS CACO3)
JAN										
15...	<10	180	41	30	26	24	22	.8	1.9	141
29...	50	180	48	31	26	27	24	.9	1.7	137
FEB										
09...	33	180	42	29	25	21	20	.7	2.1	134
MAR										
11...	140	210	46	33	30	21	18	.7	1.9	160
JUN										
13...	<10	290	48	41	45	22	14	.6	1.3	240
SEP										
11...	<10	290	44	46	42	25	16	.7	1.5	244

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)
JAN										
15...	44	33	.10	17	260	.35	9.9	1.7	1.6	.060
29...	46	37	.10	18	270	.37	5.2	1.6	1.5	.020
FEB										
09...	40	30	.10	15	240	.33	26	1.7	.87	.080
MAR										
11...	46	30	.10	15	270	.37	10	1.6	1.6	.090
JUN										
13...	36	28	.10	18	340	.46	10	.60	.66	.070
SEP										
11...	48	31	.20	17	360	.49	5.6	.50	.47	.060

See footnote at end of table.

11167572 GUADALUPE RIVER AT ALAMITOS RECHARGE FACILITY, AT SAN JOSE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)
JAN										
15...	.060	.64	.44	.70	.50	2.4	.050	.040	3.3	.20
29...	.040	.48	--	.50	--	2.1	.040	.020	3.0	.30
FEB										
09...	.040	1.2	.76	1.3	.80	3.0	.130	.040	--	--
MAR										
11...	.060	.41	.54	.50	.60	2.1	.070	.050	--	--
JUN										
13...	.040	.43	.26	.50	.30	1.1	<.010	<.010	--	--
SEP										
11...	.060	.44	.44	.50	.50	1.0	.020	<.010	--	--

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ALUMINUM, RECOV. FM BOTTOM MATERIAL (UG/G)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	
JAN									
15...	1515	9	--	--	--	--	130	--	--
29...	1315	9	--	--	--	--	130	--	--
FEB									
09...	1030	9	40	20000	<1	6	110	<1	<1
MAR									
11...	0920	9	--	--	--	--	120	--	--
JUN									
13...	1300	9	--	--	--	--	150	--	--
SEP									
11...	1500	9	10	12000	1	9	140	<1	<1

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)
JAN									
15...	--	--	--	--	--	16	--	--	--
29...	--	--	--	--	--	12	--	--	--
FEB									
09...	<10	100	30	4	59	37	36000	<1	110
MAR									
11...	--	--	--	--	--	34	--	--	--
JUN									
13...	--	--	--	--	--	8	--	--	--
SEP									
11...	--	1100	30	<1	71	9	21000	<1	<10

DATE	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
JAN								
15...	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--
FEB								
09...	15	2100	<.1	.30	<100	<1	<3	140
MAR								
11...	--	--	--	--	--	--	--	--
JUN								
13...	--	--	--	--	--	--	--	--
SEP								
11...	<10	630	<.1	4.0	<100	<1	<10	90

See footnote at end of table.

11167572 GUADALUPE RIVER AT ALAMITOS RECHARGE FACILITY, AT SAN JOSE, CA--Continued

DATE	TIME	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLORDANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)
FEB									
09...	1030	<.10	<.1	<.010	<.1	<.010	<.010	<.010	<.010
SEP									
11...	1500	<.10	<.1	<.010	<.1	<.010	<.010	<.010	<.010

DATE	DIAZINON, TOTAL (UG/L)	ENDOSULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALATHION, TOTAL (UG/L)	METHOXYCHLOR, TOTAL (UG/L)	METHYL PARATHION, TOTAL (UG/L)
FEB										
09...	.12	<.010	<.010	<.01	<.010	<.010	.030	.01	<.01	<.01
SEP										
11...	.01	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01	<.01

DATE	METHYL TRITHION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARATHION, TOTAL (UG/L)	PERTHANE TOTAL (UG/L)	TOXAPHENE, TOTAL (UG/L)	TOTAL TRITHION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
FEB									
09...	<.01	<.01	<.01	<.1	<1	<.01	.03	<.01	<.01
SEP									
11...	<.01	<.01	<.01	<.1	<1	<.01	.03	<.01	<.01

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	COLIFORM, TOTAL, IMMED. MEM.FIL (COLS./100 ML)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, (COLS. PER 100 ML)
MAR						
12...	0800	8.8	12.0	900	180	240
19...	0800	16	14.0	210	70	70
26...	0755	6.6	12.0	130	36	15
APR						
02...	0755	15	15.0	228	58	19
09...	0800	9.0	9.0	1600	150	140

< Actual value is known to be less than the value shown.

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	BED MAT. FALL DIAM. % FINER THAN .002 MM	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .008 MM	BED MAT. FALL DIAM. % FINER THAN .016 MM
FEB							
09...	1030	40	10.0	1	1	1	1
SEP							
11...	1500	5.8	21.5	1	1	1	1

11167572 GUADALUPE RIVER AT ALAMITOS RECHARGE FACILITY, AT SAN JOSE, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	BED MAT. FALL DIAM. % FINER THAN .031 MM	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
FEB							
09...	2	2	3	9	35	71	100
SEP							
11...	2	2	3	9	29	58	100

11167970 LOS GATOS CREEK ABOVE LEXINGTON RESERVOIR, NEAR LOS GATOS, CA

LOCATION.--Lat 37°10'02", long 121°58'43", in SE¼NW¼ sec.9, T.9 S., R.1 W., Santa Clara County, Hydrologic Unit 18050003, 400 ft upstream from inflow to Lexington Reservoir, 0.3 mi north of Chemeketa Park, and 4.1 mi south of Los Gatos.
DRAINAGE AREA.--19.1 mi².
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1978-80, October 1984 to September 1985.
BIOLOGICAL DATA: Water year 1978.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
APR									
29...	1515	.51	577	8.4	16.0	750	--	9.8	101
JUN									
10...	1530	--	594	8.2	23.0	745	1.0	7.8	93

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY FIELD (MG/L AS CACO3)
APR									
29...	270	82	69	24	25	17	.7	2.0	189
JUN									
10...	280	69	70	26	25	16	.7	2.1	213

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)
APR									
29...	110	13	.20	17	370	.51	.51	.10	.10
JUN									
10...	97	14	.30	18	380	.52	--	<.10	<.10

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
APR									
29...	.040	.030	.46	.27	.50	.30	.60	.030	.020
JUN									
10...	.030	.030	.27	.27	.30	.30	--	.050	.040

See footnote at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

GUADALUPE CREEK BASIN--Continued

11167970 LOS GATOS CREEK ABOVE LEXINGTON RESERVOIR, NEAR LOS GATOS, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
JUN 10...	1530	40	<10	<1	<1	90	<1

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)
JUN 10...	1	10	<10	3	3	70	6	10	1

DATE	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
JUN 10...	50	40	.1	<.1	<100	<1	<10	10

< Actual value is known to be less than the value shown.

GUADALUPE RIVER BASIN--Continued

11168000 LOS GATOS CREEK AT LOS GATOS, CA

LOCATION.--Lat 37°13'03", long 121°59'11", in SE¼ sec.20, T.8 S., R.1 W., Santa Clara County, Hydrologic Unit 18050003, on right bank 0.4 mi upstream from Main Street bridge, 0.7 mi southwest of Los Gatos Post Office, and 1.1 mi downstream from Lexington Dam.
DRAINAGE AREA.--39.1 mi².
REMARKS.--Multi-date samples were collected by automatic sampler and composited.
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1952-66, 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
JAN									
15...	1100	.40	530	8.1	7.5	760	.50	13.4	112
29...	0930	.30	539	7.8	7.5	760	.30	12.4	104
FEB									
08...	1115	34	231	8.0	9.5	755	65	11.0	97
MAR									
10...	1530	16	400	8.2	11.0	755	28	11.4	104
JUN									
11...	1645	46	515	8.3	19.0	750	6.5	9.0	99
JUL									
24...	0945	5.3	711	8.3	22.5	750	7.0	8.5	100
SEP									
11...	1015	4.8	550	8.0	12.0	755	45	10.0	94

DATE	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY FIELD (MG/L AS CACO3)
JAN										
15...	17	270	44	62	27	18	13	.5	1.4	222
29...	17	260	43	63	26	18	13	.5	1.3	222
FEB										
08...	53	110	35	23	12	8.8	15	.4	1.3	72
MAR										
10...	41	170	34	42	16	14	15	.5	1.6	--
JUN										
11...	50	250	70	62	22	19	14	.5	2.0	176
JUL										
24...	--	360	74	89	33	23	12	.5	3.1	285
SEP										
11...	<10	280	49	76	23	18	12	.5	2.8	236

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)
JAN										
15...	53	14	.20	14	320	.44	.35	<.10	<.10	<.010
29...	51	14	.20	14	320	.44	.26	<.10	<.10	<.010
FEB										
08...	22	6.3	.10	11	130	.17	12	1.1	1.1	.040
MAR										
10...	59	9.8	.20	10	230	.32	10	.40	.35	.030
JUN										
11...	100	11	.20	8.3	330	.45	41	<.10	<.10	.040
JUL										
24...	100	11	.30	10	440	.60	6.3	--	--	--
SEP										
11...	72	11	.30	11	360	.48	4.6	.20	.16	.520

See footnote at end of table.

11168000 LOS GATOS CREEK AT LOS GATOS, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)
JAN										
15...	.010	--	--	.20	<.20	--	.010	<.010	1.6	.10
29...	.020	--	.38	.30	.40	--	.010	.010	2.5	.10
FEB										
08...	<.010	1.3	--	1.3	.60	2.4	.140	.030	--	--
MAR										
10...	<.010	.57	--	.60	.50	1.0	.040	<.010	--	--
JUN										
11...	.030	.46	.27	.50	.30	--	.030	.010	3.7	.40
JUL										
24...	--	--	--	--	--	--	--	--	--	--
SEP										
11...	.510	2.0	.29	2.5	.80	2.7	.350	.020	--	--

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ALUMINUM, RECOV. FM BOTTOM MATERIAL (UG/G)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
JAN									
15...	1100	--	--	--	--	--	--	100	--
29...	0930	--	--	--	--	--	--	100	--
FEB									
08...	1115	--	120	15000	--	<1	2	40	--
MAR									
10...	1530	--	--	--	--	--	--	60	--
JUN									
11...	1645	380	<10	--	<1	<1	--	80	<1
JUL									
24...	0945	--	--	--	--	--	--	70	--
SEP									
11...	1015	--	150	11000	--	3	7	110	--

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)
JAN										
15...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
FEB										
08...	<1	<1	--	<10	70	20	--	2	31	--
MAR										
10...	--	--	--	--	--	--	--	--	--	--
JUN										
11...	1	--	10	<10	--	--	4	1	--	520
JUL										
24...	--	--	--	--	--	--	--	--	--	--
SEP										
11...	1	1	--	<10	380	20	--	1	67	--

DATE	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)
JAN									
15...	17	--	--	--	--	--	--	--	--
29...	11	--	--	--	--	--	--	--	--
FEB									
08...	170	23000	--	<1	50	--	22	660	--
MAR									
10...	30	--	--	--	--	--	--	--	--
JUN									
11...	3	--	9	4	--	210	30	--	.1
JUL									
24...	9	--	--	--	--	--	--	--	--
SEP									
11...	36	22000	--	<1	30	--	420	270	--

See footnotes at end of table.

11168000 LOS GATOS CREEK AT LOS GATOS, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	MERCURY DIS-SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)
JAN									
15...	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--
FEB									
08...	<.1	.05	<100	--	<1	<1	--	<3	50
MAR									
10...	--	--	--	--	--	--	--	--	--
JUN									
11...	<.1	--	<100	<1	--	--	10	<10	--
JUL									
24...	--	--	--	--	--	--	--	--	--
SEP									
11...	<.1	.20	<100	--	--	1	--	10	120

DATE	TIME	NAPH-THA-LENES, POLY-CHLOR. TOTAL (UG/L)	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR-DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI-ELDRIN TOTAL (UG/L)
FEB									
08...	1115	<.10	<.1	<.010	<.1	<.010	<.010	<.010	<.010
SEP									
11...	1015	<.10	<.1	<.010	<.1	<.010	<.010	<.010	<.010

DATE	DI-AZINON, TOTAL (UG/L)	ENDO-SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA-CHLOR, TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA-THION, TOTAL (UG/L)	METH-OXY-CHLOR, TOTAL (UG/L)	METHYL PARA-THION, TOTAL (UG/L)
FEB										
08...	<.01	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01	<.01
SEP										
11...	<.01	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01	<.01

DATE	METHYL TRI-THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA-THION, TOTAL (UG/L)	PER-THANE TOTAL (UG/L)	TOX-APHENE, TOTAL (UG/L)	TOTAL TRI-THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
FEB									
08...	<.01	<.01	<.01	<.1	<1	<.01	<.01	<.01	<.01
SEP									
11...	<.01	<.01	<.01	<.1	<1	<.01	<.01	<.01	<.01

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	COLI-FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, (COLS. PER 100 ML)
MAR						
12...	1045	9.9	10.0	650	30	60
19...	1015	9.9	10.0	140	7	5
26...	1015	81	10.0	390	18	20
APR						
02...	1005	9.5	12.0	145	8	21
09...	1030	22	12.0	180	3	13

< Actual value is known to be less than the value shown.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

GUADALUPE RIVER BASIN--Continued

11168000 LOS GATOS CREEK AT LOS GATOS, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	BED MAT. FALL DIAM. % FINER THAN .002 MM	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .008 MM	BED MAT. FALL DIAM. % FINER THAN .016 MM
FEB							
08...	1115	34	9.5	2	3	3	4
SEP							
11...	1015	4.8	12.0	23	29	44	66

DATE	BED MAT. FALL DIAM. % FINER THAN .031 MM	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
FEB							
08...	5	8	17	46	67	83	100
SEP							
11...	74	76	78	82	87	92	100

11168660 LOS GATOS CREEK AT LARK AVENUE, AT LOS GATOS, CA

LOCATION.--Lat 37°15'07", long 121°57'48", in Rinconada de Los Gatos Grant, Santa Clara County, Hydrologic Unit 18050003, at bridge on Lark Avenue, 1,800 ft downstream from Vasona Dam, and 2 mi northeast of Los Gatos Post Office.
DRAINAGE AREA.--43.3 mi².
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1979 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
JAN									
15...	0845	2.2	608	8.0	8.5	760	25	9.2	79
29...	0800	2.7	588	7.9	9.0	760	20	9.2	80
FEB									
08...	0815	159	178	7.7	11.0	755	45	9.7	89
MAR									
10...	1430	10	436	8.4	13.0	760	7.8	--	--
JUN									
13...	0830	43	506	8.3	21.5	755	6.1	8.0	92
JUL									
24...	0815	13	563	8.1	24.0	750	1.6	6.7	81
SEP									
11...	0830	2.2	554	8.0	17.0	755	3.5	6.4	67

DATE	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY FIELD (MG/L AS CACO3)
JAN										
15...	29	290	44	70	28	24	15	.6	2.4	246
29...	23	270	31	64	26	24	16	.7	2.2	236
FEB										
08...	180	77	17	19	7.1	6.5	15	.3	1.4	60
MAR										
10...	22	200	52	49	18	17	16	.5	1.8	145
JUN										
13...	10	240	69	59	22	19	15	.6	2.2	169
JUL										
24...	40	260	62	61	26	21	15	.6	2.6	198
SEP										
11...	30	250	56	52	29	23	17	.7	2.9	194

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)
JAN										
15...	42	32	.20	21	370	.50	2.2	.70	.72	.430
29...	43	29	.20	18	350	.47	2.5	.40	.41	.220
FEB										
08...	22	7.8	<.10	5.9	110	.14	46	.60	.63	.370
MAR										
10...	67	12	.20	9.5	260	.36	7.1	.30	.33	.050
JUN										
13...	87	12	.20	8.5	310	.42	36	<.10	<.10	.080
JUL										
24...	91	11	.20	11	340	.47	12	<.10	<.10	.050
SEP										
11...	76	19	.20	13	330	.45	2.0	.10	.11	.090

See footnote at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

GUADALUPE RIVER BASIN--Continued

11168660 LOS GATOS CREEK AT LARK AVENUE, AT LOS GATOS, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)
JAN										
15...	.440	.47	.26	.90	.70	1.6	.130	.040	2.1	.40
29...	.210	.48	.19	.70	.40	1.1	.090	.020	3.6	.60
FEB										
08...	.330	4.1	.57	4.5	.90	5.1	.800	.020	--	--
MAR										
10...	<.010	.45	--	.50	.30	.80	.050	<.010	--	--
JUN										
13...	.050	.32	.15	.40	.20	--	.050	.010	--	--
JUL										
24...	.060	.35	.44	.40	.50	--	.040	.040	--	--
SEP										
11...	.080	.71	.52	.80	.60	.90	.080	.030	--	--

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ALUMINUM, RECOV. FM BOTTOM MATERIAL (UG/G)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	
JAN									
15...	0845	9	--	--	--	--	80	--	--
29...	0800	9	--	--	--	--	80	--	--
FEB									
08...	0815	9	50	16000	1	7	30	<1	<1
MAR									
10...	1430	9	--	--	--	--	70	--	--
JUN									
13...	0830	9	--	--	--	--	70	--	--
JUL									
24...	0815	9	--	--	--	--	70	--	--
SEP									
11...	0830	9	10	13000	2	6	90	1	0

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)
JAN									
15...	--	--	--	--	--	6	--	--	--
29...	--	--	--	--	--	5	--	--	--
FEB									
08...	<10	160	30	2	30	500	36000	2	40
MAR									
10...	--	--	--	--	--	18	--	--	--
JUN									
13...	--	--	--	--	--	<3	--	--	--
JUL									
24...	--	--	--	--	--	10	--	--	--
SEP									
11...	--	680	20	4	52	8	22000	1	60

See footnote at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

GUADALUPE RIVER BASIN--Continued

11168660 LOS GATOS CREEK AT LARK AVENUE, AT LOS GATOS, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
JAN								
15...	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--
FEB								
08...	400	780	<.1	1.5	<100	<1	16	70
MAR								
10...	--	--	--	--	--	--	--	--
JUN								
13...	--	--	--	--	--	--	--	--
JUL								
24...	--	--	--	--	--	--	--	--
SEP								
11...	130	2100	<.1	.20	<100	<1	<10	120

DATE	TIME	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLORDANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)
FEB									
08...	0830	<.10	<.1	<.010	.1	.010	.010	.010	<.010
SEP									
11...	0830	<.10	<.1	<.010	<.1	<.010	<.010	<.010	<.010

DATE	DIAZINON, TOTAL (UG/L)	ENDOSULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALATHION, TOTAL (UG/L)	METHOXYCHLOR, TOTAL (UG/L)	METHYL PARATHION, TOTAL (UG/L)
FEB										
08...	.16	<.010	<.010	<.01	<.010	<.010	.010	.01	<.01	<.01
SEP										
11...	<.01	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01	<.01

DATE	METHYL TRITHION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARATHION, TOTAL (UG/L)	PERTHANE TOTAL (UG/L)	TOXAPHENE, TOTAL (UG/L)	TOTAL TRITHION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
FEB									
08...	<.01	<.01	<.01	<.1	<1	<.01	.04	<.01	<.01
SEP									
11...	<.01	<.01	<.01	<.1	<1	<.01	<.01	<.01	<.01

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	COLIFORM, TOTAL, IMMED. MEM.FIL (COLS./100 ML)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, (COLS. PER 100 ML)
MAR						
12...	0700	9.1	11.0	2300	110	210
19...	0710	9.9	12.0	3200	6	13
26...	0700	12	12.0	1800	40	77
APR						
02...	0700	12	12.0	1490	50	70
09...	0710	21	15.0	1600	40	50

< Actual value is known to be less than the value shown.

11168660 LOS GATOS CREEK AT LARK AVENUE, AT LOS GATOS, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	BED MAT. FALL DIAM. % FINER THAN .002 MM	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .008 MM	BED MAT. FALL DIAM. % FINER THAN .016 MM
FEB							
08...	0815	159	11.0	33	43	56	68
SEP							
11...	0830	2.2	17.0	21	29	35	43

DATE	BED MAT. FALL DIAM. % FINER THAN .031 MM	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
FEB							
08...	80	88	94	97	99	100	--
SEP							
11...	53	67	87	97	99	99	100

COYOTE CREEK BASIN

11169970 COYOTE CREEK BELOW LEROY ANDERSON DAM, NEAR MADRONE, CA

LOCATION.--Lat 37°09'54", long 121°37'56", in southeast corner of La Laguna Seca Grant, Santa Clara County, Hydrologic Unit 18050003, on left bank 500 ft downstream from release at Leroy Anderson Dam, 2.3 mi northeast of Madrone.
DRAINAGE AREA.--195 mi².
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
JAN									
16...	0915	35	454	8.4	10.0	760	4.5	10.8	96
30...	0815	29	448	8.4	10.0	760	7.3	11.2	100
FEB									
09...	1330	9.4	461	8.2	10.0	760	5.7	12.0	107
MAR									
11...	1445	9.0	463	8.3	10.5	755	3.5	13.5	122
JUN									
14...	0830	77	472	8.3	12.5	750	6.4	10.8	103
JUL									
25...	0815	59	472	8.2	14.5	750	14	10.0	100
SEP									
12...	0815	70	498	8.2	18.5	760	7.3	9.4	101

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
JAN										
16...	200	30	46	21	22	19	.7	1.9	172	57
30...	210	30	47	22	22	19	.7	1.6	178	56
FEB										
09...	210	34	48	23	23	19	.7	1.6	181	57
MAR										
11...	210	36	46	22	24	20	.8	1.6	170	57
JUN										
14...	210	40	47	23	23	19	.7	1.8	172	54
JUL										
25...	210	29	47	22	23	19	.7	1.8	179	54
SEP										
12...	230	37	49	25	25	19	.7	1.9	189	56

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)
JAN									
16...	14	.20	13	280	.38	26	<.10	<.10	<.010
30...	15	.20	13	280	.39	22	<.10	<.10	.020
FEB									
09...	15	.20	13	290	.39	7.3	<.10	.13	<.010
MAR									
11...	14	.20	13	280	.38	6.8	<.10	<.10	.050
JUN									
14...	15	.20	12	280	.38	58	<.10	.10	.050
JUL									
25...	14	.20	12	280	.38	45	<.10	<.10	.020
SEP									
12...	16	.20	10	300	.40	56	<.10	<.10	.090

See footnotes at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

COYOTE CREEK BASIN--Continued

11169970 COYOTE CREEK BELOW LEROY ANDERSON DAM, NEAR MADRONE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)
JAN									
16...	<.010	--	--	.30	.20	.010	<.010	2.5	--
30...	.010	.38	.29	.40	.30	.010	<.010	4.0	.10
FEB									
09...	<.010	--	--	.70	.20	.010	<.010	--	--
MAR									
11...	<.010	.25	--	.30	.20	<.010	<.010	--	--
JUN									
14...	.050	.25	.15	.30	.20	<.010	.010	--	--
JUL									
25...	.030	.28	.27	.30	.30	<.010	<.010	--	--
SEP									
12...	.090	.31	.41	.40	.50	.020	.010	--	--

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ALUMINUM, RECOV. FM BOTTOM MATERIAL (UG/G)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)
JAN								
16...	0915	--	--	--	--	100	--	--
30...	0815	--	--	--	--	100	--	--
FEB								
09...	1330	10	23000	<1	9	100	<1	<1
MAR								
11...	1445	--	--	--	--	100	--	--
JUN								
14...	0830	--	--	--	--	100	--	--
JUL								
25...	0815	--	--	--	--	60	--	--
SEP								
12...	0815	10	14000	2	12	120	2	<1

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)
JAN									
16...	--	--	--	--	--	8	--	--	--
30...	--	--	--	--	--	7	--	--	--
FEB									
09...	<10	130	40	<1	49	<3	53000	<1	70
MAR									
11...	--	--	--	--	--	6	--	--	--
JUN									
14...	--	--	--	--	--	17	--	--	--
JUL									
25...	--	--	--	--	--	12	--	--	--
SEP									
12...	<10	950	30	1	65	3	28000	<1	<10

< Actual value is known to be less than the value shown.

11169970 COYOTE CREEK BELOW LEROY ANDERSON DAM, NEAR MADRONE, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	BED MAT. FALL DIAM. % FINER THAN .002 MM	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .008 MM	BED MAT. FALL DIAM. % FINER THAN .016 MM
FEB							
09...	1330	9.4	10.0	4	5	6	6
SEP							
12...	0815	70	18.5	--	--	--	--

DATE	BED MAT. FALL DIAM. % FINER THAN .031 MM	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
FEB							
09...	7	7	8	10	19	57	100
SEP							
12...	--	1	3	9	25	51	100

11171500 COYOTE CREEK NEAR EDENVALE, CA

LOCATION.--Lat 38°16'15", long 121°47'47", at east boundary of Santa Teresa Grant, Santa Clara County, Hydrologic Unit 18050003, at "The Narrows," 1.5 mi northeast of Edenvale, and 7 mi south of San Jose.
DRAINAGE AREA.--229 mi².
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1979 to current year.
SEDIMENT DATA: October 1984 to September 1985.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
FEB											
09...	1215	16	621	8.0	10.0	765	24	10.2	90	290	74

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
FEB												
09...	60	34	27	17	.7	1.3	216	66	23	.20	17	360

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
FEB											
09...	.49	15	5.6	5.6	<.010	<.010	1.8	1.3	7.4	.020	.020

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ALUM-INUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	ARSENIC DIS-SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)
FEB							
09...	1215	<10	9400	<1	3	130	<1

DATE	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
FEB									
09...	<1	<10	160	30	<1	18	<3	26000	<1

DATE	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY DIS-SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, DIS-SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)
FEB								
09...	210	580	<.1	.06	<100	<1	<3	60

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	COLI-FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, (COLS. PER 100 ML)
APR						
09...	0845	12	17.0	1300	70	150

< Actual value is known to be less than the value shown.

11171500 COYOTE CREEK NEAR EDENVALE, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	BED MAT. FALL DIAM. % FINER THAN .002 MM	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .008 MM	BED MAT. FALL DIAM. % FINER THAN .016 MM
FEB 09...	1215	16	10.0	2	3	3	4

DATE	BED MAT. FALL DIAM. % FINER THAN .031 MM	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
FEB 09...	6	8	11	21	35	62	100

SAN LORENZO CREEK BASIN

11180940 CULL C TR NO.4 AB CULL C R NR CASTRO VALLEY, CA (LAT 37 45 02N LONG 122 03 21W)

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
(NOT PREVIOUSLY PUBLISHED)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM
DEC								
29...	0945	13	10.5	4850	170	36	42	51
29...	1015	12	10.5	3570	116	--	--	--
29...	1055	10	10.5	2540	69	--	--	--
29...	1140	10	10.5	1740	47	--	--	--
29...	1205	11	10.5	2380	71	--	--	--
29...	1220	14	10.5	4230	160	--	--	--
29...	1230	22	10.5	7940	472	--	--	--
29...	1255	26	10.5	13900	976	32	38	50
29...	1325	17	11.0	10700	491	--	--	--
29...	1355	14	11.0	6290	238	--	--	--
29...	1425	32	11.0	11200	968	25	28	36
29...	1445	37	11.0	26000	2600	--	--	--
29...	1510	20	11.0	20100	1090	--	--	--
29...	1530	16	11.0	11500	497	--	--	--
29...	1600	18	11.0	7860	382	--	--	--
JAN								
05...	0830	11	10.5	10900	324	--	--	--
05...	0900	11	10.5	8090	240	--	--	--
05...	0930	10	10.5	8050	217	--	--	--
05...	1550	6.9	11.0	2960	55	--	--	--
20...	1630	4.2	--	4680	53	--	--	--
FEB								
16...	1300	6.5	--	2740	48	--	--	--
17...	1420	3.1	--	1510	13	--	--	--
MAR								
01...	1300	3.8	--	4850	50	--	--	--
02...	0740	6.6	10.5	7790	139	--	--	--
02...	0815	5.4	10.5	6790	99	--	--	--
18...	1115	0.78	--	2360	5.0	--	--	--
31...	1015	32	--	7670	663	--	--	--
31...	1030	38	--	8500	872	32	40	50
31...	1045	38	--	9230	947	--	--	--
31...	1100	35	--	8000	756	--	--	--
31...	1130	27	--	6630	483	--	--	--
31...	1200	30	9.0	7670	621	29	34	45
31...	1245	23	9.0	6500	404	--	--	--
31...	1320	22	99.0	7820	465	--	--	--
31...	1425	23	9.0	8420	523	--	--	--
31...	1515	26	--	6430	451	--	--	--
31...	1605	21	--	5700	323	--	--	--
APR								
01...	0750	4.9	--	1150	15	--	--	--
01...	0845	4.9	--	1080	14	--	--	--
02...	1415	3.2	--	4310	37	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
DEC								
29...	62	75	--	93	99	100	--	--
29...	--	--	66	--	--	--	--	--
29...	--	--	76	--	--	--	--	--
29...	--	--	69	--	--	--	--	--
29...	--	--	62	--	--	--	--	--
29...	--	--	56	--	--	--	--	--
29...	--	--	53	--	--	--	--	--
29...	64	76	--	91	98	100	--	--
29...	--	--	68	--	--	--	--	--
29...	--	--	66	--	--	--	--	--
29...	45	59	--	80	96	99	100	--
29...	--	--	52	--	--	--	--	--
29...	--	--	64	--	--	--	--	--
29...	--	--	62	--	--	--	--	--
29...	--	--	53	--	--	--	--	--
JAN								
05...	--	--	79	--	--	--	--	--
05...	--	--	76	--	--	--	--	--
05...	--	--	80	--	--	--	--	--
05...	--	--	84	--	--	--	--	--
20...	--	--	72	--	--	--	--	--
FEB								
16...	--	--	85	--	--	--	--	--
17...	--	--	89	--	--	--	--	--

SAN LORENZO CREEK BASIN--Continued

11180940 CULL C TR NO.4 AB CULL C R NR CASTRO VALLEY, CA (LAT 37 45 02 LONG 122 03 21)--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
(NOT PREVIOUSLY PUBLISHED)

DATE	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
MAR								
01...	--	--	93	--	--	--	--	--
02...	--	--	--	--	--	--	--	--
02...	--	--	86	--	--	--	--	--
18...	--	--	99	--	--	--	--	--
31...	--	--	65	--	--	--	--	--
31...	60	70	--	80	90	96	99	100
31...	--	--	63	--	--	--	--	--
31...	--	--	65	--	--	--	--	--
31...	--	--	62	--	--	--	--	--
31...	54	61	--	69	81	92	99	100
31...	--	--	61	--	--	--	--	--
31...	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--
APR								
01...	--	--	62	--	--	--	--	--
01...	--	--	68	--	--	--	--	--
02...	--	--	99	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
(NOT PREVIOUSLY PUBLISHED)

DATE	TIME	TEMPERATURE (DEG C)	NUMBER OF SAMPLING POINTS	STREAM-FLOW, INSTANTANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
DEC								
29...	1120	10.5	6	10	2	5	16	32
MAR								
31...	1505	9.0	3	23	--	1	2	6
MAY								
12...	1210	--	5	0.0	3	10	24	39

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
DEC							
29...	40	48	57	70	85	100	--
MAR							
31...	12	19	30	48	68	95	100
MAY							
12...	47	54	62	72	88	100	--

11180940 CULL C TR NO.4 AB CULL C R NR CASTRO VALLEY, CA (LAT 37 45 02 LONG 122 03 21)--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR 1981 TO SEPTEMBER 1982
(NOT PREVIOUSLY PUBLISHED)

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	STREAM-FLOW, INSTAN-TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
DEC								
29...	1120	10.5	6	10	2	5	16	32
MAR								
31...	1505	9.0	3	23	--	1	2	6
MAY								
12...	1210	--	5	0.0	3	10	24	39

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
DEC							
29...	40	48	57	70	85	100	--
MAR							
31...	12	19	30	48	68	95	100
MAY							
12...	47	54	62	72	88	100	--

PARTICLE-SIZE DISTRIBUTION OF SEDIMENT BEDLOAD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
(NOT PREVIOUSLY PUBLISHED)

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	STREAM-FLOW, INSTAN-TANEOUS (CFS)	STREAM WIDTH (FT)	MENT DIS-CHARGE, BEDLOAD (TONS/DAY)	BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
DEC							
29...	1005	10.5	19	13	10.0	2.3	39
29...	1105	10.5	19	10	10.0	1.2	33
29...	1220	10.5	22	17	11.0	3.1	60
JAN							
05...	0940	10.5	11	9.9	5.60	0.0	--
MAR							
31...	1400	9.0	12	27	6.20	11	16
APR							
01...	0750	9.0	--	4.9	6.10	0.0	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM
DEC							
29...	68	80	87	91	96	100	--
29...	61	76	87	96	99	100	--
29...	86	93	97	100	--	--	--
JAN							
05...	--	--	--	--	--	--	--
MAR							
31...	34	39	42	46	51	63	100
APR							
01...	--	--	--	--	--	--	--

SAN LORENZO CREEK BASIN--Continued

11180940 CULL C TR NO.4 AB CULL C R NR CASTRO VALLEY, CA (LAT 37 45 02 LONG 122 03 21)--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
(NOT PREVIOUSLY PUBLISHED)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
NOV										
18...	1000	3.5	12.5	2380	22	56	67	76	86	--
18...	1130	1.1	12.5	1360	4.0	--	--	--	--	--
18...	1400	0.56	13.0	279	0.42	--	--	--	--	--
30...	1150	0.84	9.0	328	0.74	--	--	--	--	--
DEC										
21...	0830	0.82	9.0	626	1.4	--	--	--	--	--
21...	0900	0.9	9.5	550	1.3	--	--	--	--	--
21...	1015	0.9	9.5	455	1.1	--	--	--	--	--
21...	1100	1.0	10.0	525	1.4	--	--	--	--	--
21...	1500	17	11.0	7580	348	38	44	54	65	77
21...	1600	41	11.0	14400	1590	41	46	58	71	--
22...	0840	7.4	8.0	3950	79	--	--	--	--	--
22...	0915	5.0	8.0	2590	35	--	--	--	--	--
22...	1000	3.2	9.0	1540	13	--	--	--	--	--
22...	1045	5.0	9.5	1740	23	--	--	--	--	--
22...	1120	15	10.0	6110	247	--	--	--	--	--
22...	1140	14	10.0	5440	206	--	--	--	--	--
22...	1200	8.8	10.5	3700	88	--	--	--	--	--
22...	1220	81	10.5	11200	2450	29	32	41	52	--
22...	1235	205	11.0	37300	20600	32	36	52	58	--
22...	1300	105	10.5	26200	7430	--	--	--	--	--
22...	1315	52	10.5	19400	2720	38	42	54	66	--
22...	1350	4.5	11.0	9720	118	--	--	--	--	--
JAN										
22...	1020	20	9.0	10100	545	38	40	52	64	--
22...	1100	8.0	9.0	5340	115	--	--	--	--	--
22...	1200	3.6	9.0	1330	13	--	--	--	--	--
22...	1240	6.2	9.0	2340	39	--	--	--	--	--
22...	1305	12	9.0	3220	104	--	--	--	--	--
22...	1330	16	9.0	4970	215	--	--	--	--	--
22...	1400	20	9.0	6260	338	--	--	--	--	--
22...	1430	8.0	9.0	3660	79	--	--	--	--	--
27...	0850	5.9	--	748	12	--	--	--	--	--

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
NOV									
18...	92	--	97	--	100	--	--	--	--
18...	69	--	--	--	--	--	--	--	--
18...	96	--	--	--	--	--	--	--	--
30...	94	--	--	--	--	--	--	--	--
DEC									
21...	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--
21...	--	88	--	97	--	100	--	--	--
21...	80	--	88	--	94	--	97	98	99
22...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
22...	64	--	81	--	93	--	98	99	100
22...	71	--	83	--	93	--	98	99	99
22...	--	--	--	--	--	--	--	--	--
22...	77	--	88	--	95	--	98	99	100
22...	--	--	--	--	--	--	--	--	--
JAN 1983									
22...	75	--	88	--	98	--	100	--	--
22...	91	--	--	--	--	--	--	--	--
22...	93	--	--	--	--	--	--	--	--
22...	82	--	--	--	--	--	--	--	--
22...	80	--	--	--	--	--	--	--	--
22...	72	--	--	--	--	--	--	--	--
22...	76	--	--	--	--	--	--	--	--
22...	87	--	--	--	--	--	--	--	--
27...	88	--	--	--	--	--	--	--	--

SAN LORENZO CREEK BASIN--Continued

11180940 CULL C TR NO.4 AB CULL C R NR CASTRO VALLEY, CA (LAT 37 45 02 LONG 122 03 21)--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
(NOT PREVIOUSLY PUBLISHED)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
FEB										
07...	1415	9.5	10.5	3950	101	--	--	--	--	--
07...	1425	38	11.0	14600	1500	--	25	27	35	--
07...	1500	30	10.0	21900	1770	--	--	--	--	--
07...	1530	17	10.0	9980	458	--	--	--	--	--
07...	1600	11	10.0	4720	140	--	38	41	56	--
25...	1250	14	9.0	11600	438	--	--	--	--	--
25...	1325	21	9.0	18400	1040	--	--	--	--	--
25...	1345	20	9.0	14400	778	--	--	--	--	--
25...	1400	17	9.0	11200	514	--	--	--	--	--
25...	1425	15	9.0	8780	356	--	--	--	--	--
28...	1045	6.3	10.0	4000	68	--	--	--	--	--
28...	1110	7.2	10.0	4310	84	--	--	--	--	--
28...	1155	6.3	10.0	3950	67	--	--	--	--	--
28...	1225	6.7	10.5	3290	60	--	--	--	--	--
28...	1250	8.0	10.5	6180	133	--	--	--	--	--
28...	1325	11	10.0	9440	280	--	--	--	--	--
28...	1350	10	11.0	8570	231	--	--	--	--	--
MAR										
02...	0835	29	10.0	16800	1320	--	--	--	--	--
02...	0915	43	10.0	22100	2570	--	--	--	--	--
02...	0940	50	10.0	15000	2030	--	34	38	50	--
02...	1005	39	10.0	12200	1280	--	--	--	--	--
02...	1035	27	10.0	8950	652	--	--	--	--	--
02...	1055	16	10.0	8240	356	--	--	--	--	--
22...	0855	17	10.0	27700	1270	33	39	47	59	80
22...	1020	15	10.0	7120	288	--	--	--	--	--
22...	1050	14	10.0	8640	327	--	--	--	--	--
22...	1135	13	10.0	8980	315	--	--	--	--	--
22...	1150	11	11.0	12200	362	--	--	--	--	--
24...	1000	7.0	11.0	8240	156	--	--	--	--	--
24...	1055	8.0	11.0	11400	246	--	--	--	--	--
24...	1200	8.0	11.0	15600	337	--	--	--	--	--
24...	1230	10	12.0	18300	494	--	--	--	--	--
24...	1300	9.6	12.0	20600	534	--	--	--	--	--
24...	1350	10	12.0	11100	300	--	--	--	--	--

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
FEB										
07...	84	--	--	--	--	--	--	--	--	--
07...	58	--	78	--	94	--	99	--	100	--
07...	76	--	--	--	--	--	--	--	--	--
07...	76	--	--	--	--	--	--	--	--	--
07...	80	--	91	--	97	--	99	--	100	--
25...	68	--	--	--	--	--	--	--	--	--
25...	64	--	--	--	--	--	--	--	--	--
25...	66	--	--	--	--	--	--	--	--	--
25...	74	--	--	--	--	--	--	--	--	--
25...	70	--	--	--	--	--	--	--	--	--
28...	81	--	--	--	--	--	--	--	--	--
28...	83	--	--	--	--	--	--	--	--	--
28...	89	--	--	--	--	--	--	--	--	--
28...	85	--	--	--	--	--	--	--	--	--
28...	74	--	--	--	--	--	--	--	--	--
28...	73	--	--	--	--	--	--	--	--	--
28...	80	--	--	--	--	--	--	--	--	--

SAN LORENZO CREEK BASIN--Continued

11180940 CULL C TR NO.4 AB CULL C R NR CASTRO VALLEY, CA (LAT 37 45 02 LONG 122 03 21)--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
(NOT PREVIOUSLY PUBLISHED)

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
MAR										
02...	70	--	--	--	--	--	--	--	--	--
02...	48	--	--	--	--	--	--	--	--	--
02...	69	--	79	--	90	--	97	--	99	99
02...	67	--	--	--	--	--	--	--	--	--
02...	74	--	--	--	--	--	--	--	--	--
02...	73	--	--	--	--	--	--	--	--	--
22...	--	90	--	97	--	99	--	100	--	--
22...	68	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	74	--	--	--	--	--	--	--	--	--
22...	67	--	--	--	--	--	--	--	--	--
24...	67	--	--	--	--	--	--	--	--	--
24...	83	--	--	--	--	--	--	--	--	--
24...	86	--	--	--	--	--	--	--	--	--
24...	83	--	--	--	--	--	--	--	--	--
24...	88	--	--	--	--	--	--	--	--	--
24...	80	--	--	--	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
(NOT PREVIOUSLY PUBLISHED)

DATE	TIME	TEMPERATURE (DEG C)	NUMBER OF SAMPLING POINTS	STREAMFLOW, INSTANTANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM
NOV							
18...	1400	13.0	3	0.56	8	12	29
DEC							
21...	1600	11.0	--	41	1	2	4

DATE	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
NOV							
18...	45	56	64	71	76	100	--
DEC							
21...	9	14	21	37	59	85	100

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
(NOT PREVIOUSLY PUBLISHED)

DATE	TIME	NUMBER OF SAMPLING POINTS	STREAMFLOW, INSTANTANEOUS (CFS)	STREAM WIDTH (FT)	SEDIMENT DISCHARGE, BEDLOAD (TONS/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM
JAN											
27...	0840	8	5.9	7.40	0.29	21	52	66	75	88	100

SAN LORENZO CREEK BASIN--Continued

11180940 CULL C TR NO.4 AB CULL C R NR CASTRO VALLEY, CA (LAT 37 45 02 LONG 122 03 21)--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
(NOT PREVIOUSLY PUBLISHED)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM
NOV									
17...	1145	1.7	12.0	1310	6.0	61	73	81	89
DEC									
09...	0945	1.0	11.5	864	2.3	61	68	74	77
09...	1055	2.2	11.5	1910	11	--	--	--	--
09...	1135	4.0	11.0	4750	51	--	--	--	--
09...	1250	3.3	11.0	2820	25	62	69	82	92
11...	0910	11	9.5	11900	353	41	48	56	70
11...	0950	5.4	9.5	6660	97	--	--	--	--
11...	1045	4.6	9.5	2940	37	--	--	--	--
11...	1145	4.7	10.0	2460	31	--	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM
NOV									
17...	94	--	98	--	99	--	100	--	--
DEC									
09...	79	--	81	--	88	--	98	--	100
09...	--	--	84	--	--	--	--	--	--
09...	--	--	93	--	--	--	--	--	--
09...	95	--	99	--	99	--	100	--	--
11...	80	89	--	96	--	99	--	100	--
11...	--	--	92	--	--	--	--	--	--
11...	--	--	89	--	--	--	--	--	--
11...	--	--	74	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	DIS-CHARGE, SUS-PENDED (T/DAY)
FEB					
08...	0845	31	10.0	21500	1800
08...	0925	13	10.0	11000	386
08...	1010	9.0	10.0	6320	154
08...	1100	7.2	10.0	4070	79

KLAMATH RIVER BASIN

11525550 GRASS VALLEY CREEK NEAR FRENCH GULCH, CA

LOCATION.--Lat 40°36'52", long 122°44'43", in NW 1/4 SW 1/4, sec.23, T.32 N., R.8 W., Trinity County, Hydrologic Unit 18010211, on right bank, 0.8 mi downstream from an unnamed perennial tributary, 7.1 mi southeast of Lewiston, and 10.6 mi east of Douglas City.

DRAINAGE AREA.--7.93 mi^2.

PERIOD OF RECORD.--October 1984 to September 1985.

REMARKS.--Record is collected for hydrological and sediment transport correlation studies with Grass Valley Creek at Fawn Lodge near Lewiston.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					
04...	0950	6.5	9.5	3	0.05
NOV					
08...	1305	11	6.5	1	0.03
DEC					
07...	0925	26	4.0	1	0.07
JAN					
09...	0905	20	5.0	8	0.43
FEB					
06...	0900	15	1.5	3	0.12
MAR					
11...	0905	17	4.0	7	0.32
APR					
02...	0925	19	4.5	8	0.41
29...	0905	21	7.5	4	0.23
JUN					
06...	0905	13	14.5	2	0.07
JUL					
09...	0910	6.9	13.0	3	0.06
AUG					
07...	1350	5.4	16.0	2	0.03
SEP					
04...	0940	5.0	10.5	2	0.03

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	STREAM-FLOW, INSTAN-TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM
DEC												
07...	0930	4.0	1	26	--	1	8	19	32	59	93	100
07...	0935	4.0	1	26	--	--	2	16	64	96	100	--
07...	0940	4.0	1	26	--	--	2	5	29	70	94	100
APR												
29...	0910	7.5	1	21	1	3	6	15	43	82	98	100
29...	0915	7.5	1	21	1	2	6	19	49	91	100	--
29...	0920	7.5	1	21	--	1	3	9	26	65	94	100

11525580 LITTLE GRASS VALLEY CREEK NEAR LEWISTON, CA

LOCATION.--Lat 40°39'45", long 122°47'57", in NE 1/4 NW 1/4, sec. 5, T.32 N., R.8 W., Trinity County, Hydrologic Unit 18010211, on left bank, 0.2 mi upstream from the confluence with Grass Valley Creek, 0.9 mi west of Buckhorn Station, and 3.1 mi south of Lewiston on State Highway No. 299.

DRAINAGE AREA.--10.69 mi^2.

PERIOD OF RECORD.--October 1984 to September 1985.

REMARKS.--Record is collected for hydrological and sediment transport correlation studies with Grass Valley Creek at Fawn Lodge near Lewiston.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					
04...	0900	2.9	9.5	3	0.02
NOV					
08...	1000	7.1	6.5	20	0.38
DEC					
07...	1105	10	4.0	7	0.19
JAN					
09...	1030	8.2	5.0	23	0.51
FEB					
06...	1000	5.2	2.0	11	0.15
MAR					
11...	0950	6.2	5.0	14	0.23
APR					
01...	1000	6.7	5.0	8	0.14
02...	1045	6.7	6.0	8	0.14
29...	1030	4.9	9.5	6	0.08
JUN					
06...	1015	3.6	15.0	6	0.06
JUL					
09...	1015	1.4	14.5	2	0.01
AUG					
07...	1305	1.6	14.5	11	0.05
SEP					
04...	1030	1.8	11.5	4	0.02

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	STREAM-FLOW, INSTAN-TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
DEC												
07...	1100	4.0	1	10	1	5	15	30	53	86	99	100
07...	1101	4.0	1	10	1	6	20	33	57	88	100	--
07...	1102	4.0	1	10	1	8	20	29	45	77	97	100
APR												
29...	1035	9.5	1	4.9	3	9	18	37	62	90	99	100
29...	1040	9.5	1	4.9	2	10	21	44	79	98	100	--
29...	1045	9.5	1	4.9	1	9	34	63	82	98	100	--

PARTICLE-SIZE DISTRIBUTION OF SEDIMENT BEDLOAD, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	STREAM-FLOW, INSTAN-TANEOUS (CFS)	STREAM WIDTH (FT)	SEDI-MENT DIS-CHARGE, BEDLOAD (TONS/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM
DEC												
07...	1110	4.0	18	10	12.0	1.8	2	11	35	74	95	100

TRINITY RIVER BASIN

SOCTISH CREEK AT HOOPA, CA

LOCATION.--Lat 41°05'13", long 123°42'28", in SE 1/4 SW 1/4 sec.10, T.8 N., R.4 E., Hoopa Valley Indian Reservation, Humboldt County, Hydrologic Unit 18010211, on left bank downstream side of bridge on Pine Creek Road, 1,600 ft upstream from mouth.

PERIOD OF RECORD.--October 1981 to March 1985 (discontinued).

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, OCTOBER 1984 TO MARCH 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV						
08...	0910	51	9.0	189	26	--
08...	1620	80	9.0	99	21	--
09...	1455	51	10.0	25	3.4	--
11...	1015	180	10.0	567	276	--
11...	2050	500	11.0	1080	1460	--
12...	0815	430	11.5	1170	1360	--
12...	1535	276	12.0	285	212	54
12...	1825	276	11.0	320	238	--
13...	2110	195	10.0	123	65	--
27...	1120	400	8.5	2010	2170	--
27...	1900	500	9.5	1160	1570	--
28...	1140	430	10.0	470	546	--
28...	1940	330	9.0	323	288	--
29...	1910	220	8.5	162	96	--
DEC						
10...	2135	64	8.5	41	7.1	--
15...	1325	52	7.5	17	2.4	--
28...	1400	30	8.0	5	0.41	--
FEB						
11...	2335	400	7.0	825	891	55
12...	0340	276	7.0	539	402	40
12...	1125	170	8.0	237	109	--
27...	1525	21	6.5	12	0.68	--
MAR						
26...	1725	130	4.0	246	86	63

TRINITY RIVER BASIN

MILL CREEK AT HOOPA, CA

LOCATION.--Lat 41°05'24", long 123°42'00", in NE 1/4 SE 1/4 sec.10, T.8 N., R.4 E., Hoopa Valley Indian Reservation, Humboldt County, Hydrologic Unit 18010211, on right bank downstream side of bridge on State Highway 96, 800 ft upstream from mouth.

PERIOD OF RECORD.--October 1981 to March 1985 (discontinued).

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, OCTOBER 1984 TO MARCH 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV						
08...	2000	200	9.0	28	15	--
11...	1100	610	10.0	245	404	--
11...	2200	920	9.0	892	2220	--
12...	0920	1030	10.5	1150	3200	--
12...	1955	720	10.0	586	1140	--
21...	1055	320	8.0	18	16	--
JAN						
22...	1350	93	6.5	1	0.25	--
FEB						
11...	2130	198	7.0	374	200	--
12...	0130	630	7.0	379	645	60
12...	0935	540	7.0	155	226	--
MAR						
08...	1350	115	7.0	3	0.93	--
26...	1010	170	3.0	25	11	--
26...	1520	260	4.0	136	95	--

TRINITY RIVER BASIN

PINE CREEK NEAR WEITCHPEC, CA

LOCATION.--Lat 41°08'50", long 123°47'05", in NW 1/4 SE 1/4 sec.24, T.9 N., R.3 E., Hoopa Valley Indian Reservation, Humboldt County, Hydrologic Unit 18010209, near center of span on downstream side of bridge on Pine Creek Road, 100 ft downstream from Little Pine Creek and 4.9 mi southwest of Weitchpec.

PERIOD OF RECORD.--October 1981 to March 1985 (discontinued).

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, OCTOBER 1984 TO MARCH 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV						
02...	1135	980	11.0	286	757	--
02...	1750	835	11.5	102	230	--
03...	0130	610	10.5	66	109	--
03...	0600	512	10.0	42	58	--
03...	1640	350	11.0	21	20	--
04...	0920	238	10.0	11	7.1	--
07...	1450	304	10.5	9	7.4	--
08...	1010	455	9.0	46	57	--
08...	1725	530	9.0	39	56	--
11...	0800	740	10.0	72	144	--
11...	1945	1650	10.0	472	2100	--
12...	0400	1830	11.0	1060	5240	--
12...	1345	1320	11.5	436	1550	63
12...	1730	1710	11.0	323	1490	--
13...	2025	980	10.0	140	370	--
27...	1245	1140	9.0	477	1470	--
27...	2100	1600	9.0	472	2040	--
28...	1255	1460	10.0	351	1380	--
28...	2125	1300	8.5	249	874	--
29...	2010	880	8.0	99	235	--
DEC						
10...	2230	317	8.0	13	11	--
15...	1425	317	6.5	13	11	--
28...	1235	114	6.5	5	1.5	--
FEB						
11...	2245	1300	7.0	456	1600	60
12...	0250	1300	7.0	232	814	61
12...	1050	980	7.0	148	392	61
27...	1410	92	6.5	4	0.99	--
MAR						
26...	1125	223	2.0	21	13	--
26...	1630	350	3.0	76	72	68

TRINITY RIVER BASIN

SUPPLY CREEK NEAR HOOPA, CA

LOCATION.--Lat 41°00'01", long 123°44'23", in SE 1/4 sec.8, T.7 N., R.4 E., Hoopa Valley Indian Reservation, Humboldt County, Hydrologic Unit 18010211, on left bank downstream side of bridge on logging road, 1,300 ft upstream from left bank tributary and 4.7 mi southwest of Hoopa.

PERIOD OF RECORD.--October 1981 to May 1985 (discontinued).

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, OCTOBER 1984 TO MAY 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
NOV					
07...	1105	40	9.0	2	0.22
11...	1100	89	8.5	101	24
11...	1800	138	9.0	258	96
12...	0630	121	9.0	80	26
12...	1545	96	9.5	115	30
13...	1845	81	8.0	20	4.4
DEC					
27...	1450	20	5.5	7	0.38
JAN					
22...	1525	12	6.0	3	0.1
MAR					
08...	1220	15	7.0	31	1.3
MAY					
14...	1250	8.9	9.5	1	0.02

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October 1, 1978

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
	Length	
inches (in)	2.54×10^{1}	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^{0}	kilometers (km)
	Area	
acres	4.047×10^{3}	square meters (m^2)
	4.047×10^{-1}	square hectometers (hm^2)
	4.047×10^{-3}	square kilometers (km^2)
square miles (mi^2)	2.590×10^{0}	square kilometers (km^2)
	Volume	
gallons (gal)	3.785×10^{0}	liters (L)
	3.785×10^{0}	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons	3.785×10^{3}	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	2.832×10^{1}	cubic decimeters (dm^3)
	2.832×10^{-2}	cubic meters (m^3)
acre-feet (acre-ft)	1.233×10^{3}	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	2.832×10^{1}	liters per second (L/s)
	2.832×10^{1}	cubic decimeters per second (dm^3/s)
	2.832×10^{-2}	cubic meters per second (m^3/s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day	4.381×10^{1}	cubic decimeters per second (dm^3/s)
	4.381×10^{-2}	cubic meters per second (m^3/s)
	Mass	
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

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